

Safety Data Sheet (MSDS)

Summary Safety Data Sheet (MSDS)

Product: MASTAFLUOR Toxoplasma IgG /
Screen

Art.-No.: 631184, 631182

Basic UDI-DI: 42507297ToxoplasmaIgG63,
42507297ToxoScreen7F

UDI-DI: 4250729700118, 4250729700095

Product Components

The following components are part of the product::

Componets	Description	Pages
MASTAFLUOR positive control	IgG-positive Serum, human, ready-to-use, contains < 0,1% NaN ₃ and < 0.0005% ProClin	3-19
MASTAFLUOR negative control	IgG- and IgM-negative Serum, human, ready-to-use, contains <0.1% NaN ₃ and <0.0005% ProClin	20-36
MASTAFLUOR FITC conjugate IgG	FITC-marked Anti-human-IgG (γ-chain), ready-to-use, contains <0.1% NaN ₃ and <0.0005% ProClin	37-53
MASTAFLUOR FITC conjugate Poly	FITC-marked Anti-human-IgG/- IgM/- IgA, ready-to-use, contains <0.1% NaN ₃ and <0.0005% ProClin	54-70
MASTAFLUOR Diluent	5x concentrated; dilute 1:5 before use	71-87
MASTAFLUOR Evans Blue	ready-to-use, contains <0.1% NaN ₃ and <0.0005% ProClin	88-102
MASTAFLUOR mounting medium	ready-to-use, contains <0.1% NaN ₃ and <0.0005% ProClin	103-117
MASTAFLUOR PBS	Dissolve 1 sachet in 1 litre of distilled water, pH 7.2 ± 0.2	118-131

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name/designation MASTAFLUOR positive control

Article no. (user): 620525, 621181

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

remark

The product is intended for professional use.

Sector of uses [SU]

SU20 Health services

1.3 Details of the supplier of the safety data sheet

Manufacturer

Mast Diagnostica GmbH

Feldstraße 20

Deutschland-23858 Reinfeld

Telephone: +49 4533 20 07 00

Telefax: +49 4533 2007 68

E-mail: mast@mast-diagnostica.de

www.mast-group.com

1.4 Emergency telephone number

Only available during office hours.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

health hazards

Skin Sens. 1A

hazard statements for health hazards

H317 May cause an allergic skin reaction.

Classification procedure

Harmonised (legal) classification.

Physical hazards

hazard statements for physical hazards

none

Environmental hazards

none

Additional hazards

none

remark

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



GHS07

Hazard statements

Hazard statements for physical hazards

none

hazard statements for health hazards

H317 May cause an allergic skin reaction.

Hazard statements for environmental hazards

none

Hazard statements for additional hazards

none

Precautionary statements

General:

none

Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see on this label).

P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage:

none

Disposal:

P501 Dispose of contents/container to an appropriate recycling or disposal facility.

Supplemental hazard information

Physical properties

none

health hazard properties

none

Environmental properties

none

Other labelling

Standard phrases for special risks for humans or the environment

none

Labelling for contents according to regulation (EC) No. 648/2004

none

Standard phrases for safety precautions for the protection of humans or the environment

General provisions

none

Safety precautions for operators (SPo)

none

Safety precautions related to the environment (SPe)

none

Safety precautions related to good agricultural practice (SPa)

none

Specific safety precautions for rodenticides (SPr)

none

Standard phrases for special risks for humans or the environment

Special risks related to humans (RSh):

none

Special risks related to the environment (RSe):

none

2.3 Other hazards

Adverse environmental effects

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Adverse human health effects and symptoms

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria. Frequently or prolonged contact with skin may cause dermal irritation.

Adverse physicochemical effects

none

Other adverse effects

none

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition / information on ingredients

3.1 Substances (not applicable)

3.2 Mixtures

Hazardous ingredients

sodium azide	<=0,09 %
CAS 26628-22-8	
EC 247-852-1	
INDEX 011-004-00-7	
Acute Tox. 2, H300 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410	
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	0,03 - 0,05 ‰
CAS 55965-84-9	
INDEX 613-167-00-5	
Acute Tox. 2, H330 / Acute Tox. 3, H301 / Skin Corr. 1C, H314 / Eye Dam. 1, H318 / Skin Sens. 1A, H317 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410	

Specific concentration limit (SCL)

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Skin Corr. 1C

min. >=0,6 %

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Skin Irrit. 2

min. 0,06 %

max. 0,6 %

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Eye Dam. 1

min. >=0,6 %

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Eye Irrit. 2

min. >0,06 %

max. <0,6 %

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Skin Sens. 1A

min. >=0,0015 %

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

No special First Aid measures are required.

Following skin contact

Remove mechanically (e.g. dab away using wadding or cellulose material) then thoroughly wash the affected skin with a mild cleansing agent and water.

After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water.

Following ingestion

Rinse mouth thoroughly with water. Let 1 glass of water be drunken in little sips (dilution effect).

Self-protection of the first aider

none

4.2 Most important symptoms and effects, both acute and delayed

Effects

none

Symptoms

none

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor

none

Special treatment

none

SECTION 5: Firefighting measures

Additional information

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

5.1 Extinguishing media

Suitable extinguishing media

Water

Sand

Carbon dioxide (CO₂)

Extinguishing powder

Unsuitable extinguishing media

none

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

none

5.3 Advice for firefighters

Special protective equipment for firefighters

No special equipment or techniques are required.

SECTION 6: Accidental release measures

Additional information

Absorb and remove liquid with absorbent material. Clean the affected surface with standard cleaning agents.

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Personal precautions

none

Protective equipment

none

For emergency responders

Personal protection equipment

none

6.2 Environmental precautions

none

6.3 Methods and material for containment and cleaning up

For containment

Suitable material for taking up

Commercially available materials are sufficient.

For cleaning up

Suitable material for diluting or neutralizing

Water

6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on general occupational hygiene

Provide eye shower and label its location conspicuously

Protective measures

Advices on safe handling

No special technical protective measures are necessary.

Measures to prevent fire

No special fire protection measures are necessary.

Environmental precautions

No special measures are necessary.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Storage conditions are listed on the labels. Additional information concerning the storage are given in the instructions for use.

Hints on joint storage

Materials to avoid

none

Further information on storage conditions

Protect against:

UV-radiation/sunlight

Temperatures outside the listed range.

storage temperature

Value 2 - 8 °C

7.3 Specific end use(s)

Recommendation

Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

CAS No.	Substance name	LTV	STV	remark
26628-22-8	Sodium azide	0,1 mg/m ³	0,3 (1) mg/m ³	(1) 15 minutes average value Bold-type: Indicative Occupational Exposure Limit Value (IOELV) ~

European Union

LTV = long-term occupational exposure limit value

STV = short-term occupational exposure limit value

source: GESTIS International Limit Values (<http://limitvalue.ifa.dguv.de/>)

Monitoring and observation processes: GESTIS Analytical Methods (<http://amcaw.ifa.dguv.de/>)

Exposure limits at intended use

biological limit values

remark

No data available

DNEL-/PNEC-values

DNEL Consumer

Substance name sodium azide

type

systemic

source

TRGS900

Value 0,493 mg/m³

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

type

local

source

Deutschland. MAK- und BAT Anhang IIa

Value 0,02 mg/m³

PNEC

Value 0,35 µg/L

PNEC type

aquatic, freshwater

Value 0,015 µg/L

PNEC type

aquatic, marine water

Value 0,0167 mg/kg



PNEC type

sediment, freshwater

Value 30 µg/L

PNEC type

sewage treatment plant

8.2 Exposure controls

Appropriate engineering controls

remark

See section 7. No additional measures necessary.

Personal protection equipment

Eye/face protection

Suitable eye protection

Eye glasses

Eye glasses with side protection

Skin protection

Suitable gloves type

Disposable gloves

Suitable material

NBR (Nitrile rubber)

Body protection

Suitable protective clothing

lab coat

Respiratory protection

none

Environmental exposure controls

remark

See section 7. No additional measures necessary.

Consumer exposure controls

Measures related to consumer uses of the substance (as such or in preparations).

not relevant

Measures related to the service life of the substance in articles

not relevant

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state

liquid

Colour

colourless

Odour

odourless

Odour threshold

not relevant

parameter

Method - source - remark

Melting point/freezing point

No data available

parameter	Method - source - remark
Boiling point or initial boiling point and boiling range	No data available
flammability	not relevant
Upper explosion limit	not relevant
lower explosion limit	not relevant
Flash point (°C)	not relevant
Auto-ignition temperature	not relevant
Decomposition temperature	not relevant
pH	No data available
Kinematic viscosity	No data available
Water solubility	No data available
Soluble (g/L) in	not relevant
Fat solubility	No data available
Partition coefficient: n-octanol/water	No data available
Vapour pressure	No data available
Density and/or relative density	No data available
Relative vapour density	No data available
particle characteristics	not relevant
Dynamic viscosity	No data available
flow time	No data available
Thermal sensitivity	A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).
Sensitiveness to impact (J)	A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).

parameter	Method - source - remark
Sensitivity to friction (N)	A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).
Oxidising liquids	No data available
Oxidising solids	not relevant
Oxidising gas	not relevant

9.2 Other information

Physical hazards

Explosives

Justification for data waiving

The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.

Flammable gases

Justification for data waiving

not relevant

Aerosols

Justification for data waiving

Testing can be waived because substance is not an aerosol.

Oxidising gas

Justification for data waiving

Testing can be waived because substance is a liquid.

Gases under pressure

Justification for data waiving

Testing can be waived because substance is a liquid.

flammable liquids

Justification for data waiving

not relevant

Flammable solids

Justification for data waiving

Testing can be waived because substance is a liquid.

Self-reactive substances and mixtures

Justification for data waiving

The classification procedures for self-reactive substances and mixtures need not be applied because there are no chemical groups present in the molecule associated with explosive or selfreactive properties.

Pyrophoric liquids

Justification for data waiving

The study does not need to be conducted because the substance is known to be stable at room temperature for prolonged periods of time (days).

Pyrophoric solids

Justification for data waiving

Testing can be waived because substance is a liquid.

self-heating substances and mixtures

Justification for data waiving

not relevant

Substances or mixtures which, in contact with water, emit flammable gases

Justification for data waiving

not relevant

Oxidising liquids

Justification for data waiving

not relevant

Oxidising solids

Justification for data waiving

Testing can be waived because substance is a liquid.

Organic peroxides

Justification for data waiving

Classification procedure not required, because the substance or the mixture is by definition not an organic peroxide.

Corrosive to metals

Justification for data waiving

not relevant

Desensitised explosives

Justification for data waiving

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

No hazardous reaction when handled and stored according to provisions. Further information on storage conditions: see subsection 7.2.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

Further information on storage conditions: see subsection 7.2.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

Does not decompose when used for intended uses. No known hazardous decomposition products.

SECTION 11: Toxicological information

Additional information

Toxicological data are not available.

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicokinetics, metabolism and distribution

Human toxicological data

No data available

Non-human toxicological data

remark

There are no data available on the preparation/mixture itself.

Acute toxicity

Acute dermal toxicity

ingredient sodium azide

Acute dermal toxicity 18 mg/kg

Effective dose

LD50:

Species:

Rabbit

ingredient reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute dermal toxicity 2,8 mg/kg

Effective dose

LD50:

Species:

Rabbit

Acute inhalation toxicity (dust/mist)

ingredient sodium azide

Acute inhalation toxicity (dust/mist) 5,4 mg/kg

Effective dose

LC50:

Exposure time 4

Species:

Rat

Acute inhalation toxicity (vapour)

ingredient reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute inhalation toxicity (vapour) 16,67 mg/kg

Exposure time 4 d

Acute oral toxicity

ingredient sodium azide

Acute oral toxicity 27 mg/kg

Effective dose

LD50:

Species:

Rat

ingredient reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute oral toxicity 862 mg/kg

Effective dose

LD50:

Species:

Rat

skin corrosion/irritation

Assessment/classification

No data available

Respiratory or skin sensitisation

Sensitisation to the respiratory tract

Assessment/classification

No data available

Skin sensitisation

Assessment/classification

May cause an allergic skin reaction.

No data available

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity

Human toxicological data

Result

not relevant

In vitro mutagenicity/genotoxicity

Genetic endpoint

not relevant

In vivo mutagenicity/genotoxicity

Result / evaluation

not relevant

Carcinogenicity

Result / evaluation

No data available

Reproductive toxicity

Assessment/classification

No data available

Adverse effects on sexual function and fertility

Result / evaluation

No data available

Adverse effects on developmental toxicity

Result / evaluation

No data available

Effects on or via lactation

Result

No data available

STOT-single exposure

STOT SE 1 and 2

Dermal specific target organ toxicity (single exposure)

remark

No data available

Inhalative specific target organ toxicity (single exposure)

remark

No data available

Oral specific target organ toxicity (single exposure)

remark

No data available

STOT SE 3

Irritation to respiratory tract

Assessment/classification

No data available

STOT-repeated exposure

STOT RE 1 and 2

Dermal specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

Inhalative specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

Oral specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

Repeated dose toxicity (subacute, subchronic, chronic)

Subacute oral toxicity

remark

No data available

Subacute dermal toxicity

Specific effects:

No data available

Subacute inhalation toxicity

Specific effects:

No data available

Subchronic dermal toxicity

Specific effects:

No data available

Subchronic inhalation toxicity

Specific effects:

No data available

Chronic oral toxicity

Specific effects:

No data available

Chronic dermal toxicity

Specific effects:

No data available

Chronic inhalation toxicity

Specific effects:

No data available

11.2 Information on other hazards

Endocrine disrupting properties

remark

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Phototoxicity

In vitro phototoxicity

evaluation

No data available

In vivo phototoxicity

evaluation

No data available

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Result / evaluation

none

Acute (short-term) toxicity to crustacea

Result / evaluation

none

Chronic (long-term) toxicity to aquatic invertebrate

remark

none

Chronic (long-term) fish toxicity

Result / evaluation

none

Acute (short-term) toxicity to algae and cyanobacteria

ingredient sodium azide

Acute (short-term) toxicity to algae and cyanobacteria 0,348 mg/L

Effective dose

EC50

Test duration 4 d

species

Algen / Wasserpflanze

Chronic (long-term) toxicity to aquatic algae and cyanobacteria

remark

No data available

Toxicity to other aquatic plants/organisms

Result / evaluation

none

Toxicity to microorganisms

Result / evaluation

none

Terrestrial toxicity

Effects on soil microorganisms

evaluation

none

Toxicity to soil macroorganisms except of arthropods

Acute earthworm toxicity

evaluation

none

Chronical earthworm toxicity (reproduction)

evaluation

none

Toxicity to terrestrial arthropods

Insect toxicity

evaluation

none

Toxicity to terrestrial plants

Acute plant toxicity

evaluation

none

Chronic plant toxicity

evaluation

none

Toxicity to birds

Acute and subchronic bird toxicity

evaluation

none

Bird reproduction toxicity

evaluation

none

Additional ecotoxicological information

General information

none

12.2 Persistence and degradability

Assessment/classification

The substance meets the criteria of ready degradability as defined in Regulation (EC) No 1272/2008.

12.3 Bioaccumulative potential

Assessment/classification

not applicable

12.4 Mobility in soil

Assessment/classification

No data available.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

remark

No data available

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Directive 2008/98/EC (Waste Framework Directive)

Before intended use

Waste code product 180100

hazardous waste No

Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code product 180107

hazardous waste No

Waste name

chemicals other than those mentioned in 18 01 06

After intended use

Waste code packaging 180100

hazardous waste No

Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code packaging 180107

hazardous waste No

Waste name

chemicals other than those mentioned in 18 01 06

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	not applicable	not applicable	not applicable
14.2 Proper Shipping Name	not applicable	not applicable	not applicable
14.3 Class(es)	not applicable	not applicable	not applicable
14.4 Packing group	not applicable	not applicable	not applicable
14.5 Environmental hazards	not applicable	not applicable	not applicable
14.6 Special precautions for user	not applicable	not applicable	not applicable
14.7 Maritime transport in bulk according to IMO instruments	not applicable	not applicable	not applicable

Additional information

All transport carriers

No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation

Authorisations and/or restrictions on use

authorisations

none

restrictions on use

none

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

See SECTION 2.1 (classification).

Indication of changes

not relevant

Additional information

not relevant



Relevant R-, H- and EUH-phrases (Number and full text)

none

Training advice

none

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name/designation MASTAFLUOR negative control

Article no. (user): 620528, 621186, 621186

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

remark

The product is intended for professional use.

Sector of uses [SU]

SU20 Health services

1.3 Details of the supplier of the safety data sheet

Manufacturer

Mast Diagnostica GmbH

Feldstraße 20

Deutschland-23858 Reinfeld

Telephone: +49 4533 20 07 00

Telefax: +49 4533 2007 68

E-mail: mast@mast-diagnostica.de

www.mast-group.com

1.4 Emergency telephone number

Only available during office hours.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

health hazards

Skin Sens. 1A

hazard statements for health hazards

H317 May cause an allergic skin reaction.

Classification procedure

Harmonised (legal) classification.

Physical hazards

hazard statements for physical hazards

none

Environmental hazards

none

Additional hazards

none

remark

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



GHS07

Hazard statements

Hazard statements for physical hazards

none

hazard statements for health hazards

H317 May cause an allergic skin reaction.

Hazard statements for environmental hazards

none

Hazard statements for additional hazards

none

Precautionary statements

General:

none

Prevention

none

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing.

Response:

none

P302 + P352 IF ON SKIN: Wash with plenty of water/.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see on this label).

P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage:

none

Disposal:

P501 Dispose of contents/container to an appropriate recycling or disposal facility.

Supplemental hazard information

Physical properties

none

health hazard properties

none

Environmental properties

none

Other labelling

Standard phrases for special risks for humans or the environment

none

Labelling for contents according to regulation (EC) No. 648/2004:

none

Standard phrases for safety precautions for the protection of humans or the environment

General provisions

none

Safety precautions for operators (SPo)

none

Safety precautions related to the environment (SPe)

none

Safety precautions related to good agricultural practice (SPa)

none

Specific safety precautions for rodenticides (SPr)

none

Standard phrases for special risks for humans or the environment

Special risks related to humans (RSh):

none

Special risks related to the environment (RSe):

none

2.3 Other hazards

Adverse environmental effects

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Adverse human health effects and symptoms

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Adverse physicochemical effects

none

Other adverse effects

none

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition / information on ingredients

3.1/3.2 Substances/Mixtures

Hazardous ingredients

sodium azide <=0,09 %

CAS 26628-22-8

EC 247-852-1

INDEX 011-004-00-7

Acute Tox. 2, H300 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) 0,03 - 0,05 ‰

CAS 55965-84-9

INDEX 613-167-00-5

Acute Tox. 2, H330 / Acute Tox. 3, H301 / Skin

Corr. 1C, H314 / Eye Dam. 1, H318 / Skin Sens. 1A, H317 / Aquatic

Acute 1, H400 / Aquatic Chronic 1, H410

Specific concentration limit (SCL):

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Skin Corr. 1C

min. >=0,6 %

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Skin Irrit. 2

min. 0,06 %

max. 0,6 %

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Eye Dam. 1

min. 0,6 %

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)



Hazard classes and hazard categories

Eye Irrit. 2

min. 0,06 %

max. 0,6 %

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Skin Sens. 1A

min. $\geq 0,0015$ %

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

No special First Aid measures are required.

Following skin contact

Remove mechanically (e.g. dab away using wadding or cellulose material) then thoroughly wash the affected skin with a mild cleansing agent and water.

After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water.

Following ingestion

Rinse mouth thoroughly with water. Let 1 glass of water be drunken in little sips (dilution effect).

Self-protection of the first aider

none

4.2 Most important symptoms and effects, both acute and delayed

Effects

none

Symptoms

none

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor

none

Special treatment

none

SECTION 5: Firefighting measures

Additional information

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

5.1 Extinguishing media

Suitable extinguishing media

Water

Sand

Carbon dioxide (CO₂)

Extinguishing powder

Unsuitable extinguishing media

none

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

none

5.3 Advice for firefighters

Special protective equipment for firefighters

No special equipment or techniques are required.



SECTION 6: Accidental release measures

Additional information

Absorb and remove liquid with absorbent material. Clean the affected surface with standard cleaning agents.

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Personal precautions

none

Protective equipment

none

For emergency responders

Personal protection equipment

none

6.2 Environmental precautions

none

6.3 Methods and material for containment and cleaning up

For containment

Suitable material for taking up:

Commercially available materials are sufficient.

For cleaning up

Suitable material for diluting or neutralizing:

Water

6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on general occupational hygiene

Provide eye shower and label its location conspicuously

Protective measures

Advices on safe handling

No special technical protective measures are necessary.

Measures to prevent fire

No special fire protection measures are necessary.

Environmental precautions

No special measures are necessary.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Storage conditions are listed on the labels. Additional information concerning the storage are given in the instructions for use.

Hints on joint storage

Materials to avoid

none

Further information on storage conditions

Protect against:

UV-radiation/sunlight

Temperatures outside the listed range.



storage temperature

Value 2 - 8 °C

7.3 Specific end use(s)

Recommendation

Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

CAS No.	Substance name	LTV	STV	remark
26628-22-8	Sodium azide	0,1 mg/m ³	0,3 (1) mg/m ³	(1) 15 minutes average value Bold-type: Indicative Occupational Exposure Limit Value (IOELV) ~

European Union

LTV = long-term occupational exposure limit value

STV = short-term occupational exposure limit value

source: GESTIS International Limit Values (<http://limitvalue.ifa.dguv.de/>)

Monitoring and observation processes: GESTIS Analytical Methods (<http://amcaw.ifa.dguv.de/>)

Exposure limits at intended use

biological limit values

remark

No data available

DNEL-/PNEC-values

DNEL Consumer

Substance name sodium azide

type

systemic

source

TRGS900

Value 0,493 mg/m³

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

type

local

source

Deutschland. MAK- und BAT Anhang IIa

Value 0,02 mg/m³

PNEC

Value 0,35 µg/L

PNEC type

aquatic, freshwater

Value 0,015 µg/L

PNEC type

aquatic, marine water

Value 0,0167 mg/kg



PNEC type

sediment, freshwater

Value 30 µg/L

PNEC type

sewage treatment plant

8.2 Exposure controls

Appropriate engineering controls

remark

See section 7. No additional measures necessary.

Personal protection equipment

Eye/face protection

Suitable eye protection:

Eye glasses

Eye glasses with side protection

Skin protection

Suitable gloves type

Disposable gloves

Suitable material:

NBR (Nitrile rubber)

Body protection:

Suitable protective clothing:

lab coat

Respiratory protection

none

Environmental exposure controls

remark

See section 7. No additional measures necessary.

Consumer exposure controls

Measures related to consumer uses of the substance (as such or in preparations).

not relevant

Measures related to the service life of the substance in articles

not relevant

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state

liquid

Colour

colourless

Odour

odourless

Odour threshold:

not relevant

parameter

Method - source - remark

Melting point/freezing point

No data available



parameter	Method - source - remark
Boiling point or initial boiling point and boiling range	No data available
flammability	not relevant
Upper explosion limit	not relevant
lower explosion limit	not relevant
Flash point (°C)	not relevant
Auto-ignition temperature	not relevant
Decomposition temperature	not relevant
pH	No data available
Kinematic viscosity	No data available
Water solubility	No data available
Soluble (g/L) in	not relevant
Fat solubility	No data available
Partition coefficient: n-octanol/water	No data available
Vapour pressure	No data available
Density and/or relative density	No data available
Relative vapour density	No data available
particle characteristics	not relevant
Dynamic viscosity	No data available
flow time	No data available
Thermal sensitivity	A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).
Sensitiveness to impact (J)	A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).

parameter	Method - source - remark
Sensitivity to friction (N)	A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).
Oxidising liquids	No data available
Oxidising solids	not relevant
Oxidising gas	not relevant

9.2 Other information

Physical hazards

Explosives

Justification for data waiving

The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.

Flammable gases

Justification for data waiving

not relevant

Aerosols

Justification for data waiving

Testing can be waived because substance is not an aerosol.

Oxidising gas

Justification for data waiving

Testing can be waived because substance is a liquid.

Gases under pressure

Justification for data waiving

Testing can be waived because substance is a liquid.

flammable liquids

Justification for data waiving

not relevant

Flammable solids

Justification for data waiving

Testing can be waived because substance is a liquid.

Self-reactive substances and mixtures

Justification for data waiving

The classification procedures for self-reactive substances and mixtures need not be applied because there are no chemical groups present in the molecule associated with explosive or selfreactive properties.

Pyrophoric liquids

Justification for data waiving

The study does not need to be conducted because the substance is known to be stable at room temperature for prolonged periods of time (days).

Pyrophoric solids

Justification for data waiving

Testing can be waived because substance is a liquid.

self-heating substances and mixtures

Justification for data waiving

not relevant

Substances or mixtures which, in contact with water, emit flammable gases

Justification for data waiving

not relevant

Oxidising liquids

Justification for data waiving

not relevant

Oxidising solids

Justification for data waiving

Testing can be waived because substance is a liquid.

Organic peroxides

Justification for data waiving

Classification procedure not required, because the substance or the mixture is by definition not an organic peroxide.

Corrosive to metals

Justification for data waiving

not relevant

Desensitised explosives

Justification for data waiving

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

No hazardous reaction when handled and stored according to provisions. Further information on storage conditions: see subsection 7.2.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

Further information on storage conditions: see subsection 7.2.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

Does not decompose when used for intended uses. No known hazardous decomposition products.

SECTION 11: Toxicological information

Additional information

Toxicological data are not available.

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicokinetics, metabolism and distribution

Human toxicological data

No data available

Non-human toxicological data

remark

There are no data available on the preparation/mixture itself.

Acute toxicity

Acute dermal toxicity

ingredient sodium azide

Acute dermal toxicity 18 mg/kg

Effective dose

LD50:

Species:

Rabbit

ingredient reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute dermal toxicity 2,8 mg/kg

Effective dose

LD50:

Species:

Rabbit

Acute inhalation toxicity (dust/mist)

ingredient sodium azide

Acute inhalation toxicity (dust/mist) 5,4 mg/kg

Effective dose

LC50:

Exposure time 4

Species:

Rat

Acute inhalation toxicity (vapour)

ingredient reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute inhalation toxicity (vapour) 16,67 mg/kg

Exposure time 4 d

Acute oral toxicity

ingredient sodium azide

Acute oral toxicity 27 mg/kg

Effective dose

LD50:

Species:

Rat

ingredient reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute oral toxicity 862 mg/kg

Effective dose

LD50:

Species:

Rat

skin corrosion/irritation

Assessment/classification

No data available

Respiratory or skin sensitisation

Sensitisation to the respiratory tract

Assessment/classification

No data available

Skin sensitisation

Assessment/classification

May cause an allergic skin reaction.

No data available

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity

Human toxicological data

Result

not relevant

In vitro mutagenicity/genotoxicity

Genetic endpoint

not relevant

In vivo mutagenicity/genotoxicity

Result / evaluation

not relevant

Carcinogenicity

Result / evaluation

No data available

Reproductive toxicity

Assessment/classification

No data available

Adverse effects on sexual function and fertility

Result / evaluation

No data available

Adverse effects on developmental toxicity

Result / evaluation

No data available

Effects on or via lactation

Result

No data available

STOT-single exposure

STOT SE 1 and 2

Dermal specific target organ toxicity (single exposure)

remark

No data available

Inhalative specific target organ toxicity (single exposure)

remark

No data available

Oral specific target organ toxicity (single exposure)

remark

No data available

STOT SE 3

Irritation to respiratory tract

Assessment/classification

No data available

STOT-repeated exposure

STOT RE 1 and 2

Dermal specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

Inhalative specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

Oral specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

Repeated dose toxicity (subacute, subchronic, chronic)

Subacute oral toxicity

remark

No data available

Subacute dermal toxicity

Specific effects:

No data available

Subacute inhalation toxicity

Specific effects:

No data available

Subchronic dermal toxicity

Specific effects:

No data available

Subchronic inhalation toxicity

Specific effects:

No data available

Chronic oral toxicity

Specific effects:

No data available

Chronic dermal toxicity

Specific effects:

No data available

Chronic inhalation toxicity

Specific effects:

No data available

11.2 Information on other hazards

Endocrine disrupting properties

remark

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Phototoxicity

In vitro phototoxicity

evaluation

No data available

In vivo phototoxicity

evaluation

No data available

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Result / evaluation

none

Acute (short-term) toxicity to crustacea

Result / evaluation

none

Chronic (long-term) toxicity to aquatic invertebrate

remark

none

Chronic (long-term) fish toxicity

Result / evaluation

none

Acute (short-term) toxicity to algae and cyanobacteria

ingredient sodium azide

Acute (short-term) toxicity to algae and cyanobacteria 0,348 mg/L

Effective dose

EC50

Test duration 4 d

species

Algen / Wasserpflanze

Chronic (long-term) toxicity to aquatic algae and cyanobacteria

remark

No data available

Toxicity to other aquatic plants/organisms

Result / evaluation

none

Toxicity to microorganisms

Result / evaluation

none

Terrestrial toxicity

Effects on soil microorganisms

evaluation

none

Toxicity to soil macroorganisms except of arthropods

Acute earthworm toxicity

evaluation

none

Chronical earthworm toxicity (reproduction)

evaluation

none



Toxicity to terrestrial arthropods

Insect toxicity

evaluation

none

Toxicity to terrestrial plants

Acute plant toxicity

evaluation

none

Chronic plant toxicity

evaluation

none

Toxicity to birds

Acute and subchronic bird toxicity

evaluation

none

Bird reproduction toxicity

evaluation

none

Additional ecotoxicological information

General information

none

12.2 Persistence and degradability

Assessment/classification

The substance meets the criteria of ready degradability as defined in Regulation (EC) No 1272/2008.

12.3 Bioaccumulative potential

Assessment/classification

not applicable

12.4 Mobility in soil

Assessment/classification

No data available

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

remark

No data available

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Directive 2008/98/EC (Waste Framework Directive)

Before intended use

Waste code product 180100

hazardous waste No

Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code product 180107



hazardous waste No

Waste name

chemicals other than those mentioned in 18 01 06

After intended use

Waste code packaging 180100

hazardous waste No

Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code packaging 180107

hazardous waste No

Waste name

chemicals other than those mentioned in 18 01 06

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	not applicable	not applicable	not applicable
14.2 Proper Shipping Name	not applicable	not applicable	not applicable
14.3 Class(es)	not applicable	not applicable	not applicable
14.4 Packing group	not applicable	not applicable	not applicable
14.5 Environmental hazards	not applicable	not applicable	not applicable
14.6 Special precautions for user	not applicable	not applicable	not applicable
14.7 Maritime transport in bulk according to IMO instruments	not applicable	not applicable	not applicable

Additional information

All transport carriers

No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation

Authorisations and/or restrictions on use

authorisations

none

restrictions on use

none

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

See SECTION 2.1 (classification).

Indication of changes

not relevant

Additional information

not relevant



Relevant R-, H- and EUH-phrases (Number and full text)

none

Training advice

none

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name/designation MASTAFLUOR FITC conjugate IgG

Article no. (user): 626284

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

remark

The product is intended for professional use.

Sector of uses [SU]

SU20 Health services

1.3 Details of the supplier of the safety data sheet

Manufacturer

Mast Diagnostica GmbH

Feldstraße 20

Deutschland-23858 Reinfeld

Telephone: +49 4533 20 07 00

Telefax: +49 4533 2007 68

E-mail: mast@mast-diagnostics.de

www.mast-group.com

1.4 Emergency telephone number

Only available during office hours.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

health hazards

Skin Sens. 1A

hazard statements for health hazards

H317 May cause an allergic skin reaction.

Classification procedure

Harmonised (legal) classification.

Physical hazards

hazard statements for physical hazards

none

Environmental hazards

none

Additional hazards

none

Specific concentration limit (SCL):

Hazard classes and hazard categories

none

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



GHS07

Hazard statements

Hazard statements for physical hazards

none

hazard statements for health hazards

H317 May cause an allergic skin reaction.

Hazard statements for environmental hazards

none

Hazard statements for additional hazards

none

Precautionary statements

General:

none

Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see on this label).

P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage:

none

Disposal:

P501 Dispose of contents/container to an appropriate recycling or disposal facility.

Supplemental hazard information

Physical properties

none

health hazard properties

none

Environmental properties

none

Other labelling

Standard phrases for special risks for humans or the environment

none

Labelling for contents according to regulation (EC) No. 648/2004:

none

Standard phrases for safety precautions for the protection of humans or the environment

General provisions

none

Safety precautions for operators (SPo)

none

Safety precautions related to the environment (SPe)

none

Safety precautions related to good agricultural practice (SPa)

none

Specific safety precautions for rodenticides (SPr)

none

Standard phrases for special risks for humans or the environment

Special risks related to humans (RSh):

none

Special risks related to the environment (RSe):

none

2.3 Other hazards

Adverse environmental effects

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Adverse human health effects and symptoms

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Adverse physicochemical effects

none

Other adverse effects

none

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition / information on ingredients

3.1/3.2 Substances/Mixtures

Hazardous ingredients

sodium azide	<0,09 %
CAS 26628-22-8	
EC 247-852-1	
INDEX 011-004-00-7	
Acute Tox. 2, H300 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410	
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	0,03 - 0,05 ‰
CAS 55965-84-9	
INDEX 613-167-00-5	
Acute Tox. 2, H330 / Acute Tox. 2, H310 / Acute Tox. 3, H301 / Skin	
Corr. 1C, H314 / Eye Dam. 1, H318 / Skin Sens. 1A, H317 / Aquatic	
Acute 1, H400 / Aquatic Chronic 1, H410	

Specific concentration limit (SCL):

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Skin Corr. 1C

min. >=0,6 %

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Skin Irrit. 2

min. 0,06 %

max. 0,6 %

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Eye Dam. 1

min. 0,6 %

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Eye Irrit. 2

min. 0,06 %

max. 0,6 %

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Skin Sens. 1A

min. >=0,0015 %

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

No special First Aid measures are required.

Following skin contact

Remove mechanically (e.g. dab away using wadding or cellulose material) then thoroughly wash the affected skin with a mild cleansing agent and water.

After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water.

Following ingestion

Rinse mouth thoroughly with water.

Self-protection of the first aider

none

4.2 Most important symptoms and effects, both acute and delayed

Effects

none

Symptoms

none

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor

none

Special treatment

none

SECTION 5: Firefighting measures

Additional information

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

5.1 Extinguishing media

Suitable extinguishing media

Water

Sand

Carbon dioxide (CO₂)

Extinguishing powder

Unsuitable extinguishing media

none

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

none

5.3 Advice for firefighters

Special protective equipment for firefighters

No special equipment or techniques are required.

SECTION 6: Accidental release measures

Additional information

Absorb and remove liquid with absorbent material. Clean the affected surface with standard cleaning agents.

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Personal precautions

none

Protective equipment

none

For emergency responders

Personal protection equipment

none

6.2 Environmental precautions

none

6.3 Methods and material for containment and cleaning up

For containment

Suitable material for taking up:

Commercially available materials are sufficient.

For cleaning up

Suitable material for diluting or neutralizing:

Water

6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on general occupational hygiene

Provide eye shower and label its location conspicuously

Protective measures

Advices on safe handling

No special technical protective measures are necessary.

Measures to prevent fire

No special fire protection measures are necessary.

Environmental precautions

No special measures are necessary.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Storage conditions are listed on the labels. Additional information concerning the storage are given in the instructions for use.

Hints on joint storage

Materials to avoid

none

Further information on storage conditions

Protect against:

UV-radiation/sunlight

Temperatures outside the listed range.

storage temperature

Value 2 - 8 °C

7.3 Specific end use(s)

Recommendation

Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

CAS No.	Substance name	LTV	STV	remark
26628-22-8	Sodium azide	0,1 mg/m ³	0,3 (1) mg/m ³	(1) 15 minutes average value Bold-type: Indicative Occupational Exposure Limit Value (IOELV) ~

European Union

LTV = long-term occupational exposure limit value

STV = short-term occupational exposure limit value

source: GESTIS International Limit Values (<http://limitvalue.ifa.dguv.de/>)

Monitoring and observation processes: GESTIS Analytical Methods (<http://amcaw.ifa.dguv.de/>)

Exposure limits at intended use

biological limit values

remark

No data available

DNEL-/PNEC-values

DNEL Consumer

Substance name sodium azide

type

systemic

source

TRGS900

Value 0,493 mg/m³

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

type

local

source

Deutschland. MAK- und BAT Anhang IIa

Value 0,02 mg/m³

PNEC

Value 0,35 µg/L

PNEC type

aquatic, freshwater

Value 0,015 µg/L

PNEC type

aquatic, marine water

Value 0,0167 mg/kg

PNEC type

sediment, freshwater

Value 30 µg/L

PNEC type

sewage treatment plant

8.2 Exposure controls

Appropriate engineering controls

remark

See section 7. No additional measures necessary.

Personal protection equipment

Eye/face protection

Suitable eye protection:

Eye glasses

Eye glasses with side protection

Skin protection

Suitable gloves type

Disposable gloves

Suitable material:

NBR (Nitrile rubber)

Body protection:

Suitable protective clothing:

lab coat

Respiratory protection

none

Environmental exposure controls

remark

See section 7. No additional measures necessary.

Consumer exposure controls

Measures related to consumer uses of the substance (as such or in preparations).

not relevant

Measures related to the service life of the substance in articles

not relevant

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state

liquid

Colour

colourless

Odour

odourless

Odour threshold:

not relevant

parameter	Method - source - remark
Melting point/freezing point	No data available
Boiling point or initial boiling point and boiling range	No data available
flammability	not relevant
Upper explosion limit	not relevant
lower explosion limit	not relevant
Flash point (°C)	not relevant
Auto-ignition temperature	not relevant
Decomposition temperature	not relevant
pH	No data available
Kinematic viscosity	No data available
Water solubility	No data available
Soluble (g/L) in	not relevant
Fat solubility	No data available
Partition coefficient: n-octanol/water	No data available
Vapour pressure	No data available
Density and/or relative density	No data available
Relative vapour density	No data available
particle characteristics	not relevant
Dynamic viscosity	No data available
flow time	No data available
Thermal sensitivity	A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).

parameter	Method - source - remark
Sensitiveness to impact (J)	A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).
Sensitivity to friction (N)	A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).
Oxidising liquids	No data available
Oxidising solids	not relevant
Oxidising gas	not relevant

9.2 Other information

Physical hazards

Explosives

Justification for data waiving

The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.

Flammable gases

Justification for data waiving

not relevant

Aerosols

Justification for data waiving

Testing can be waived because substance is not an aerosol.

Oxidising gas

Justification for data waiving

Testing can be waived because substance is a liquid.

Gases under pressure

Justification for data waiving

Testing can be waived because substance is a liquid.

flammable liquids

Justification for data waiving

not relevant

Flammable solids

Justification for data waiving

Testing can be waived because substance is a liquid.

Self-reactive substances and mixtures

Justification for data waiving

The classification procedures for self-reactive substances and mixtures need not be applied because there are no chemical groups present in the molecule associated with explosive or selfreactive properties.

Pyrophoric liquids

Justification for data waiving

The study does not need to be conducted because the substance is known to be stable at room temperature for prolonged periods of time (days).

Pyrophoric solids

Justification for data waiving

Testing can be waived because substance is a liquid.

self-heating substances and mixtures

Justification for data waiving

not relevant

Substances or mixtures which, in contact with water, emit flammable gases

Justification for data waiving

not relevant

Oxidising liquids

Justification for data waiving

not relevant

Oxidising solids

Justification for data waiving

Testing can be waived because substance is a liquid.

Organic peroxides

Justification for data waiving

Classification procedure not required, because the substance or the mixture is by definition not an organic peroxide.

Corrosive to metals

Justification for data waiving

not relevant

Desensitised explosives

Justification for data waiving

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

No hazardous reaction when handled and stored according to provisions. Further information on storage conditions: see subsection 7.2.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

Further information on storage conditions: see subsection 7.2.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

Does not decompose when used for intended uses. No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicokinetics, metabolism and distribution

Human toxicological data

No data available

Non-human toxikological data

remark

There are no data available on the preparation/mixture itself.

Acute toxicity

Acute dermal toxicity

ingredient sodium azide

Acute dermal toxicity 18 mg/kg

Effective dose

LD50:

Species:

Rabbit

ingredient reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute dermal toxicity 2,8 mg/kg

Effective dose

LD50:

Species:

Rabbit

Acute inhalation toxicity (dust/mist)

ingredient sodium azide

Acute inhalation toxicity (dust/mist) 5,4 mg/kg

Effective dose

LC50:

Exposure time 4

Species:

Rat

Acute inhalation toxicity (vapour)

ingredient reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute inhalation toxicity (vapour) 16,67 mg/L

Exposure time 4 d

Acute oral toxicity

ingredient sodium azide

Acute oral toxicity 27 mg/kg

Effective dose

LD50:

Species:

Rat

ingredient reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute oral toxicity 862 mg/kg

Effective dose

LD50:

Species:

Rat

skin corrosion/irritation

Assessment/classification

No data available

Respiratory or skin sensitisation

Sensitisation to the respiratory tract

Assessment/classification

No data available

Skin sensitisation

Assessment/classification

May cause an allergic skin reaction.

No data available

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity

Human toxicological data

Result

not relevant

In vitro mutagenicity/genotoxicity

Genetic endpoint

not relevant

In vivo mutagenicity/genotoxicity

Result / evaluation

not relevant

Carcinogenicity

Result / evaluation

No data available

Reproductive toxicity

Assessment/classification

No data available

Adverse effects on sexual function and fertility

Result / evaluation

No data available

Adverse effects on developmental toxicity

Result / evaluation

No data available

Effects on or via lactation

Result

No data available

STOT-single exposure

STOT SE 1 and 2

Dermal specific target organ toxicity (single exposure)

remark

No data available

Inhalative specific target organ toxicity (single exposure)

remark

No data available

Oral specific target organ toxicity (single exposure)

remark

No data available

STOT SE 3

Irritation to respiratory tract

Assessment/classification

No data available

STOT-repeated exposure

STOT RE 1 and 2

Dermal specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

Inhalative specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

Oral specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

Repeated dose toxicity (subacute, subchronic, chronic)

Subacute oral toxicity

remark

No data available

Subacute dermal toxicity

Specific effects:

No data available

Subacute inhalation toxicity

Specific effects:

No data available

Subchronic dermal toxicity

Specific effects:

No data available

Subchronic inhalation toxicity

Specific effects:

No data available

Chronic oral toxicity

Specific effects:

No data available

Chronic dermal toxicity

Specific effects:

No data available

Chronic inhalation toxicity

Specific effects:

No data available

11.2 Information on other hazards

Endocrine disrupting properties

remark

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Phototoxicity

In vitro phototoxicity

evaluation

No data available

In vivo phototoxicity

evaluation

No data available

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) toxicity to crustacea

Result / evaluation

none

Chronic (long-term) toxicity to aquatic invertebrate

remark

none

Chronic (long-term) fish toxicity

Result / evaluation

none

Acute (short-term) toxicity to algae and cyanobacteria

ingredient sodium azide

Acute (short-term) toxicity to algae and cyanobacteria 0,348 mg/L

Effective dose

EC50

Test duration 4 d

species

Alge/Wasserpflanze

Chronic (long-term) toxicity to aquatic algae and cyanobacteria

evaluation parameter:

none

Toxicity to other aquatic plants/organisms

Result / evaluation

none

Toxicity to microorganisms

Result / evaluation

none

Terrestrial toxicity

Effects on soil microorganisms

evaluation

none

Toxicity to soil macroorganisms except of arthropods

Acute earthworm toxicity

evaluation

none

Chronical earthworm toxicity (reproduction)

evaluation

none

Toxicity to terrestrial arthropods

Insect toxicity

evaluation

none

Toxicity to terrestrial plants

Acute plant toxicity

evaluation

none

Chronic plant toxicity

evaluation

none

Toxicity to birds

Acute and subchronic bird toxicity

evaluation

none

Bird reproduction toxicity

evaluation

none

Additional ecotoxicological information

General information

none

12.2 Persistence and degradability

Assessment/classification

The substance meets the criteria of ready degradability as defined in Regulation (EC) No 1272/2008.

12.3 Bioaccumulative potential

Assessment/classification

not applicable

12.4 Mobility in soil

Assessment/classification

No data available

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

remark

No data available

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Directive 2008/98/EC (Waste Framework Directive)

Before intended use

Waste code product 180100

hazardous waste No

Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code product 180107

hazardous waste No

Waste name

chemicals other than those mentioned in 18 01 06

After intended use

Waste code packaging 180100

hazardous waste No

Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code packaging 180107

hazardous waste No

Waste name

chemicals other than those mentioned in 18 01 06

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	not applicable	not applicable	not applicable
14.2 Proper Shipping Name	not applicable	not applicable	not applicable
14.3 Class(es)	not applicable	not applicable	not applicable
14.4 Packing group	not applicable	not applicable	not applicable
14.5 Environmental hazards	not applicable	not applicable	not applicable
14.6 Special precautions for user	not applicable	not applicable	not applicable
14.7 Maritime transport in bulk according to IMO instruments	not applicable	not applicable	not applicable

Additional information

All transport carriers

No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation

Authorisations and/or restrictions on use

authorisations

none

restrictions on use

none

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

See SECTION 2.1 (classification).

Indication of changes

not relevant

Additional information

not relevant

Relevant R-, H- and EUH-phrases (Number and full text)

none

Training advice

none

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name/designation MASTAFLUOR FITC conjugate poly

Article no. (user): 626286

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

remark

The product is intended for professional use.

Sector of uses [SU]

SU20 Health services

1.3 Details of the supplier of the safety data sheet

Manufacturer

Mast Diagnostica GmbH

Feldstraße 20

Deutschland-23858 Reinfeld

Telephone: +49 4533 20 07 00

Telefax: +49 4533 2007 68

E-mail: mast@mast-diagnostica.de

www.mast-group.com

1.4 Emergency telephone number

Only available during office hours.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

health hazards

Skin Sens. 1A

hazard statements for health hazards

H317 May cause an allergic skin reaction.

Classification procedure

Harmonised (legal) classification.

Physical hazards

hazard statements for physical hazards

none

Environmental hazards

none

Additional hazards

none

Specific concentration limit (SCL)

Hazard classes and hazard categories

none

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



GHS07

Hazard statements

Hazard statements for physical hazards

none

hazard statements for health hazards

H317 May cause an allergic skin reaction.

Hazard statements for environmental hazards

none

Hazard statements for additional hazards

none

Precautionary statements

General:

none

Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see on this label).

P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage:

none

Disposal:

P501 Dispose of contents/container to an appropriate recycling or disposal facility.

Supplemental hazard information

Physical properties

none

health hazard properties

none

Environmental properties

none

Other labelling

Standard phrases for special risks for humans or the environment

none

Labelling for contents according to regulation (EC) No. 648/2004

none

Standard phrases for safety precautions for the protection of humans or the environment

General provisions

none

Safety precautions for operators (SPo)

none

Safety precautions related to the environment (SPe)

none

Safety precautions related to good agricultural practice (SPa)

none

Specific safety precautions for rodenticides (SPr)

none

Standard phrases for special risks for humans or the environment

Special risks related to humans (RSh):

none

Special risks related to the environment (RSe):

none

2.3 Other hazards

Adverse environmental effects

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Adverse human health effects and symptoms

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Adverse physicochemical effects

none

Other adverse effects

none

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition / information on ingredients

3.1/3.2 Substances/Mixtures

Hazardous ingredients

sodium azide	<=0,09 %
CAS 26628-22-8	
EC 247-852-1	
INDEX 011-004-00-7	
Acute Tox. 2, H300 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410	
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	0,05 - 0,08 ‰
CAS 55965-84-9	
INDEX 613-167-00-5	
Acute Tox. 2, H330 / Acute Tox. 2, H310 / Acute Tox. 3, H301 / Skin	
Corr. 1C, H314 / Eye Dam. 1, H318 / Skin Sens. 1A, H317 / Aquatic	
Acute 1, H400 / Aquatic Chronic 1, H410	

Specific concentration limit (SCL)

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Skin Corr. 1C

min. 0,6 %

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Skin Irrit. 2

min. 0,06 %

max. 0,6 %

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Eye Dam. 1

min. 0,6 %

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Skin Irrit. 2

min. 0,06 %

max. 0,6 %

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Skin Sens. 1A

min. >=0,0015 %

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

No special First Aid measures are required.

Following skin contact

Remove mechanically (e.g. dab away using wadding or cellulose material) then thoroughly wash the affected skin with a mild cleansing agent and water.

After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water.

Following ingestion

Rinse mouth thoroughly with water.

Self-protection of the first aider

none

4.2 Most important symptoms and effects, both acute and delayed

Effects

none

Symptoms

none

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor

none

Special treatment

none

SECTION 5: Firefighting measures

Additional information

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

5.1 Extinguishing media

Suitable extinguishing media

Water

Sand

Carbon dioxide (CO₂)

Extinguishing powder

Unsuitable extinguishing media

none

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

none

5.3 Advice for firefighters

Special protective equipment for firefighters

No special equipment or techniques are required.

SECTION 6: Accidental release measures

Additional information

Absorb and remove liquid with absorbent material. Clean the affected surface with standard cleaning agents.

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Personal precautions

none

Protective equipment

none

For emergency responders

Personal protection equipment

none

6.2 Environmental precautions

none

6.3 Methods and material for containment and cleaning up

For containment

Suitable material for taking up

Commercially available materials are sufficient.

For cleaning up

Suitable material for diluting or neutralizing

Water

6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on general occupational hygiene

Provide eye shower and label its location conspicuously

Protective measures

Advices on safe handling

No special technical protective measures are necessary.

Measures to prevent fire

No special fire protection measures are necessary.

Environmental precautions

No special measures are necessary.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Storage conditions are listed on the labels. Additional information concerning the storage are given in the instructions for use.

Hints on joint storage

Materials to avoid

none

Further information on storage conditions

Protect against:

UV-radiation/sunlight

Temperatures outside the listed range.

storage temperature

Value 2 - 8 °C

7.3 Specific end use(s)

Recommendation

Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

CAS No.	Substance name	LTV	STV	remark
26628-22-8	Sodium azide	0,1 mg/m ³	0,3 (1) mg/m ³	(1) 15 minutes average value Bold-type: Indicative Occupational Exposure Limit Value (IOELV) ~

European Union

LTV = long-term occupational exposure limit value

STV = short-term occupational exposure limit value

source: GESTIS International Limit Values (<http://limitvalue.ifa.dguv.de/>)

Monitoring and observation processes: GESTIS Analytical Methods (<http://amcaw.ifa.dguv.de/>)

Exposure limits at intended use

biological limit values

remark

No data available

DNEL-/PNEC-values

DNEL Consumer

Substance name sodium azide

type

systemic

source

TRGS900

Value 0,493 mg/m³

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

type

local

source

Deutschland. MAK- und BAT Anhang IIa

Value 0,02 mg/m³

PNEC

Value 0,35 µg/L

PNEC type

aquatic, freshwater

Value 0,015 µg/L

PNEC type

aquatic, marine water

Value 0,0167 mg/kg

PNEC type

sediment, freshwater

Value 30 µg/L

PNEC type

sewage treatment plant

8.2 Exposure controls

Appropriate engineering controls

remark

See section 7. No additional measures necessary.

Personal protection equipment

Eye/face protection

Suitable eye protection

Eye glasses

Eye glasses with side protection

Skin protection

Suitable gloves type

Disposable gloves

Suitable material

NBR (Nitrile rubber)

Body protection

Suitable protective clothing

lab coat

Respiratory protection

none

Environmental exposure controls

remark

See section 7. No additional measures necessary.

Consumer exposure controls

Measures related to consumer uses of the substance (as such or in preparations).

not relevant

Measures related to the service life of the substance in articles

not relevant

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state

liquid

Colour

colourless

Odour

odourless

Odour threshold

not relevant

parameter	Method - source - remark
Melting point/freezing point	No data available
Boiling point or initial boiling point and boiling range	No data available
flammability	not relevant
Upper explosion limit	not relevant
lower explosion limit	not relevant
Flash point (°C)	not relevant
Auto-ignition temperature	not relevant
Decomposition temperature	not relevant
pH	No data available
Kinematic viscosity	No data available
Water solubility	No data available
Soluble (g/L) in	not relevant
Fat solubility	No data available
Partition coefficient: n-octanol/water	No data available
Vapour pressure	No data available
Density and/or relative density	No data available
Relative vapour density	No data available
particle characteristics	not relevant
Dynamic viscosity	No data available
flow time	No data available
Thermal sensitivity	A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).

parameter	Method - source - remark
Sensitiveness to impact (J)	A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).
Sensitivity to friction (N)	A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).
Oxidising liquids	No data available
Oxidising solids	not relevant
Oxidising gas	not relevant

9.2 Other information

Physical hazards

Explosives

Justification for data waiving

The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.

Flammable gases

Justification for data waiving

not relevant

Aerosols

Justification for data waiving

Testing can be waived because substance is not an aerosol.

Oxidising gas

Justification for data waiving

Testing can be waived because substance is a liquid.

Gases under pressure

Justification for data waiving

Testing can be waived because substance is a liquid.

flammable liquids

Justification for data waiving

not relevant

Flammable solids

Justification for data waiving

Testing can be waived because substance is a liquid.

Self-reactive substances and mixtures

Justification for data waiving

The classification procedures for self-reactive substances and mixtures need not be applied because there are no chemical groups present in the molecule associated with explosive or selfreactive properties.

Pyrophoric liquids

Justification for data waiving

The study does not need to be conducted because the substance is known to be stable at room temperature for prolonged periods of time (days).

Pyrophoric solids

Justification for data waiving

Testing can be waived because substance is a liquid.

self-heating substances and mixtures

Justification for data waiving

not relevant

Substances or mixtures which, in contact with water, emit flammable gases

Justification for data waiving

not relevant

Oxidising liquids

Justification for data waiving

not relevant

Oxidising solids

Justification for data waiving

Testing can be waived because substance is a liquid.

Organic peroxides

Justification for data waiving

Classification procedure not required, because the substance or the mixture is by definition not an organic peroxide.

Corrosive to metals

Justification for data waiving

not relevant

Desensitised explosives

Justification for data waiving

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

No hazardous reaction when handled and stored according to provisions. Further information on storage conditions: see subsection 7.2.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

Further information on storage conditions: see subsection 7.2.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

Does not decompose when used for intended uses. No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicokinetics, metabolism and distribution

Human toxicological data

No data available

Non-human toxikological data

remark

There are no data available on the preparation/mixture itself.

Acute toxicity

Acute dermal toxicity

ingredient sodium azide

Acute dermal toxicity 18 mg/kg

Effective dose

LD50:

Species:

Rabbit

ingredient reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute dermal toxicity 2,8 mg/kg

Effective dose

LD50:

Species:

Rabbit

Acute inhalation toxicity (dust/mist)

ingredient sodium azide

Acute inhalation toxicity (dust/mist) 5,4 mg/kg

Effective dose

LC50:

Exposure time 4

Species:

Rat

Acute inhalation toxicity (vapour)

ingredient reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute inhalation toxicity (vapour) 16,67 mg/L

Exposure time 4 d

Acute oral toxicity

ingredient sodium azide

Acute oral toxicity 27 mg/kg

Effective dose

LD50:

Species:

Rat

ingredient reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute oral toxicity 862 mg/kg

Effective dose

LD50:

Species:

Rat

skin corrosion/irritation

Assessment/classification

No data available

Respiratory or skin sensitisation

Sensitisation to the respiratory tract

Assessment/classification

No data available

Skin sensitisation

Assessment/classification

May cause an allergic skin reaction.

No data available

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity

Human toxicological data

Result

not relevant

In vitro mutagenicity/genotoxicity

Genetic endpoint

not relevant

In vivo mutagenicity/genotoxicity

Result / evaluation

not relevant

Carcinogenicity

Result / evaluation

No data available

Reproductive toxicity

Assessment/classification

No data available

Adverse effects on sexual function and fertility

Result / evaluation

No data available

Adverse effects on developmental toxicity

Result / evaluation

No data available

Effects on or via lactation

Result

No data available

STOT-single exposure

STOT SE 1 and 2

Dermal specific target organ toxicity (single exposure)

remark

No data available

Inhalative specific target organ toxicity (single exposure)

remark

No data available

Oral specific target organ toxicity (single exposure)

remark

No data available

STOT SE 3

Irritation to respiratory tract

Assessment/classification

No data available

STOT-repeated exposure

STOT RE 1 and 2

Dermal specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

Inhalative specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

Oral specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

Repeated dose toxicity (subacute, subchronic, chronic)

Subacute oral toxicity

remark

No data available

Subacute dermal toxicity

Specific effects:

No data available

Subacute inhalation toxicity

Specific effects:

No data available

Subchronic dermal toxicity

Specific effects:

No data available

Subchronic inhalation toxicity

Specific effects:

No data available

Chronic oral toxicity

Specific effects:

No data available

Chronic dermal toxicity

Specific effects:

No data available

Chronic inhalation toxicity

Specific effects:

No data available

11.2 Information on other hazards

Endocrine disrupting properties

remark

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Phototoxicity

In vitro phototoxicity

evaluation

No data available

In vivo phototoxicity

evaluation

No data available

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) toxicity to crustacea

Result / evaluation

none

Chronic (long-term) toxicity to aquatic invertebrate

remark

none

Chronic (long-term) fish toxicity

Result / evaluation

none

Acute (short-term) toxicity to algae and cyanobacteria

ingredient sodium azide

Acute (short-term) toxicity to algae and cyanobacteria 0,348 mg/L

Effective dose

EC50

Test duration 4 d

species

Alge/Wasserpflanze

Chronic (long-term) toxicity to aquatic algae and cyanobacteria

evaluation parameter:

none

Toxicity to other aquatic plants/organisms

Result / evaluation

none

Toxicity to microorganisms

Result / evaluation

none

Terrestrial toxicity

Effects on soil microorganisms

evaluation

none

Toxicity to soil macroorganisms except of arthropods

Acute earthworm toxicity

evaluation

none

Chronical earthworm toxicity (reproduction)

evaluation

none

Toxicity to terrestrial arthropods

Insect toxicity

evaluation

none

Toxicity to terrestrial plants

Acute plant toxicity

evaluation

none

Chronic plant toxicity

evaluation

none

Toxicity to birds

Acute and subchronic bird toxicity

evaluation

none

Bird reproduction toxicity

evaluation

none

Additional ecotoxicological information

General information

none

12.2 Persistence and degradability

Assessment/classification

The substance meets the criteria of ready degradability as defined in Regulation (EC) No 1272/2008.

12.3 Bioaccumulative potential

Assessment/classification

not applicable

12.4 Mobility in soil

Assessment/classification

No data available

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

remark

No data available

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Directive 2008/98/EC (Waste Framework Directive)

Before intended use

Waste code product 180100

hazardous waste No

Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code product 180107

hazardous waste No

Waste name

chemicals other than those mentioned in 18 01 06

After intended use

Waste code packaging 180100

hazardous waste No

Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code packaging 180107

hazardous waste No

Waste name

chemicals other than those mentioned in 18 01 06

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	not applicable	not applicable	not applicable
14.2 Proper Shipping Name	not applicable	not applicable	not applicable
14.3 Class(es)	not applicable	not applicable	not applicable
14.4 Packing group	not applicable	not applicable	not applicable
14.5 Environmental hazards	not applicable	not applicable	not applicable
14.6 Special precautions for user	not applicable	not applicable	not applicable
14.7 Maritime transport in bulk according to IMO instruments	not applicable	not applicable	not applicable

Additional information

All transport carriers

No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation

Authorisations and/or restrictions on use

authorisations

none

restrictions on use

none

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

See SECTION 2.1 (classification).

Indication of changes

not relevant

Additional information

not relevant

Relevant R-, H- and EUH-phrases (Number and full text)

none

Training advice

none

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name/designation MASTAFLUOR Toxoplasma Diluent

Article no. (user): 620100

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

remark

The product is intended for professional use.

Sector of uses [SU]

SU20 Health services

1.3 Details of the supplier of the safety data sheet

Manufacturer

Mast Diagnostica GmbH

Feldstraße 20

Deutschland-23858 Reinfeld

Telephone: +49 4533 20 07 00

Telefax: +49 4533 2007 68

E-mail: mast@mast-diagnostica.de

www.mast-group.com

1.4 Emergency telephone number

Only available during office hours.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

health hazards

Skin Sens. 1A

hazard statements for health hazards

H317 May cause an allergic skin reaction.

Classification procedure

Harmonised (legal) classification.

Physical hazards

hazard statements for physical hazards

none

Environmental hazards

none

Additional hazards

none

Specific concentration limit (SCL):

Hazard classes and hazard categories

none

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



GHS07

Hazard statements

Hazard statements for physical hazards

none

hazard statements for health hazards

H317 May cause an allergic skin reaction.

Hazard statements for environmental hazards

none

Hazard statements for additional hazards

none

Precautionary statements

General:

none

Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see on this label).

P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage:

none

Disposal:

P501 Dispose of contents/container to an appropriate recycling or disposal facility.

Supplemental hazard information

Physical properties

none

health hazard properties

none

Environmental properties

none

Other labelling

Standard phrases for special risks for humans or the environment

none

Labelling for contents according to regulation (EC) No. 648/2004:

none

Standard phrases for safety precautions for the protection of humans or the environment

General provisions

none

Safety precautions for operators (SPo)

none

Safety precautions related to the environment (SPe)

none

Safety precautions related to good agricultural practice (SPa)

none

Specific safety precautions for rodenticides (SPr)

none

Standard phrases for special risks for humans or the environment

Special risks related to humans (RSh):

none

Special risks related to the environment (RSe):

none

2.3 Other hazards

Adverse environmental effects

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Adverse human health effects and symptoms

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Adverse physicochemical effects

none

Other adverse effects

none

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition / information on ingredients

3.1/3.2 Substances/Mixtures

Hazardous ingredients

sodium azide	>=0,09 %
CAS 26628-22-8	
EC 247-852-1	
INDEX 011-004-00-7	
Acute Tox. 2, H300 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410	
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	0,03 - 0,05 ‰
CAS 55965-84-9	
INDEX 613-167-00-5	
Acute Tox. 2, H330 / Acute Tox. 2, H310 / Acute Tox. 3, H301 / Skin	
Corr. 1C, H314 / Eye Dam. 1, H318 / Skin Sens. 1A, H317 / Aquatic	
Acute 1, H400 / Aquatic Chronic 1, H410	

Specific concentration limit (SCL):

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Skin Corr. 1C

min. 0,6 %

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Skin Irrit. 2

min. 0,06 %

max. 0,6 %

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Eye Dam. 1

min. 0,6 %

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Eye Irrit. 2

min. 0,06 %

max. 0,6 %

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Resp. Sens. 1A

min. >=0,0015 %

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

No special First Aid measures are required.

Following skin contact

Remove mechanically (e.g. dab away using wadding or cellulose material) then thoroughly wash the affected skin with a mild cleansing agent and water.

After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water.

Following ingestion

Rinse mouth thoroughly with water.

Self-protection of the first aider

none

4.2 Most important symptoms and effects, both acute and delayed

Effects

none

Symptoms

none

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor

none

Special treatment

none

SECTION 5: Firefighting measures

Additional information

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

5.1 Extinguishing media

Suitable extinguishing media

Water

Sand

Carbon dioxide (CO₂)

Extinguishing powder

Unsuitable extinguishing media

none

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

none

5.3 Advice for firefighters

Special protective equipment for firefighters

No special equipment or techniques are required.

SECTION 6: Accidental release measures

Additional information

Absorb and remove liquid with absorbent material. Clean the affected surface with standard cleaning agents.

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Personal precautions

none

Protective equipment

none

For emergency responders

Personal protection equipment

none

6.2 Environmental precautions

none

6.3 Methods and material for containment and cleaning up

For containment

Suitable material for taking up:

Commercially available materials are sufficient.

For cleaning up

Suitable material for diluting or neutralizing:

Water

6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on general occupational hygiene

Provide eye shower and label its location conspicuously

Protective measures

Advices on safe handling

No special technical protective measures are necessary.

Measures to prevent fire

No special fire protection measures are necessary.

Environmental precautions

No special measures are necessary.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Storage conditions are listed on the labels. Additional information concerning the storage are given in the instructions for use.

Hints on joint storage

Materials to avoid

none

Further information on storage conditions

Protect against:

UV-radiation/sunlight

Temperatures outside the listed range.

storage temperature

Value 2 - 8 °C

7.3 Specific end use(s)

Recommendation

Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

CAS No.	Substance name	LTV	STV	remark
26628-22-8	Sodium azide	0,1 mg/m ³	0,3 (1) mg/m ³	(1) 15 minutes average value Bold-type: Indicative Occupational Exposure Limit Value (IOELV) ~

European Union

LTV = long-term occupational exposure limit value

STV = short-term occupational exposure limit value

source: GESTIS International Limit Values (<http://limitvalue.ifa.dguv.de/>)

Monitoring and observation processes: GESTIS Analytical Methods (<http://amcaw.ifa.dguv.de/>)

DNEL-/PNEC-values

DNEL Consumer

Substance name sodium azide

type

systemic

source

TRGS900

Value 0,493 mg/m³

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

type

local

source

Deutschland. MAK- und BAT Anhang IIa

Value 0,02 mg/m³

PNEC

Value 0,35 µg/L

PNEC type

aquatic, freshwater

Value 0,015 µg/L

PNEC type

aquatic, marine water

Value 0,0167 mg/kg

PNEC type

sediment, freshwater

Value 30 µg/L

PNEC type

sewage treatment plant

8.2 Exposure controls

Appropriate engineering controls

remark

See section 7. No additional measures necessary.

Personal protection equipment

Eye/face protection

Suitable eye protection:

Eye glasses

Eye glasses with side protection

Skin protection

Suitable gloves type

Disposable gloves

Suitable material:

NBR (Nitrile rubber)

Body protection:

Suitable protective clothing:

lab coat

Respiratory protection

none

Environmental exposure controls

remark

See section 7. No additional measures necessary.

Consumer exposure controls

Measures related to consumer uses of the substance (as such or in preparations).

not relevant

Measures related to the service life of the substance in articles

not relevant

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state

liquid

Colour

colourless

Odour

odourless

Odour threshold:

not relevant

parameter

Method - source - remark

Melting point/freezing point

No data available

parameter	Method - source - remark
Boiling point or initial boiling point and boiling range	No data available
flammability	not relevant
Upper explosion limit	not relevant
lower explosion limit	not relevant
Flash point (°C)	not relevant
Auto-ignition temperature	not relevant
Decomposition temperature	not relevant
pH	No data available
Kinematic viscosity	No data available
Water solubility	No data available
Soluble (g/L) in	not relevant
Fat solubility	No data available
Partition coefficient: n-octanol/water	No data available
Vapour pressure	No data available
Density and/or relative density	No data available
Relative vapour density	No data available
particle characteristics	not relevant
Dynamic viscosity	No data available
flow time	No data available
Thermal sensitivity	A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).
Sensitiveness to impact (J)	A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).

parameter	Method - source - remark
Sensitivity to friction (N)	A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).
Oxidising liquids	No data available
Oxidising solids	not relevant
Oxidising gas	not relevant

9.2 Other information

Physical hazards

Explosives

Justification for data waiving

The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.

Flammable gases

Justification for data waiving

not relevant

Aerosols

Justification for data waiving

Testing can be waived because substance is not an aerosol.

Oxidising gas

Justification for data waiving

Testing can be waived because substance is a liquid.

Gases under pressure

Justification for data waiving

Testing can be waived because substance is a liquid.

flammable liquids

Justification for data waiving

not relevant

Flammable solids

Justification for data waiving

Testing can be waived because substance is a liquid.

Self-reactive substances and mixtures

Justification for data waiving

The classification procedures for self-reactive substances and mixtures need not be applied because there are no chemical groups present in the molecule associated with explosive or selfreactive properties.

Pyrophoric liquids

Justification for data waiving

The study does not need to be conducted because the substance is known to be stable at room temperature for prolonged periods of time (days).

Pyrophoric solids

Justification for data waiving

Testing can be waived because substance is a liquid.

self-heating substances and mixtures

Justification for data waiving

not relevant

Substances or mixtures which, in contact with water, emit flammable gases

Justification for data waiving

not relevant

Oxidising liquids

Justification for data waiving

not relevant

Oxidising solids

Justification for data waiving

Testing can be waived because substance is a liquid.

Organic peroxides

Justification for data waiving

Classification procedure not required, because the substance or the mixture is by definition not an organic peroxide.

Corrosive to metals

Justification for data waiving

not relevant

Desensitised explosives

Justification for data waiving

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

No hazardous reaction when handled and stored according to provisions. Further information on storage conditions: see subsection 7.2.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

Further information on storage conditions: see subsection 7.2.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

Does not decompose when used for intended uses. No known hazardous decomposition products.

SECTION 11: Toxicological information

Additional information

Toxicological data are not available.

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicokinetics, metabolism and distribution

Human toxicological data

No data available

Non-human toxicological data

remark

There are no data available on the preparation/mixture itself.

Acute toxicity

Acute dermal toxicity

ingredient sodium azide

Acute dermal toxicity 18 mg/kg

Effective dose

LD50:

Species:

Rabbit

ingredient reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute dermal toxicity 2,8 mg/kg

Effective dose

LD50:

Species:

Rabbit

Acute inhalation toxicity (dust/mist)

ingredient sodium azide

Acute inhalation toxicity (dust/mist) 5,4 mg/kg

Effective dose

LC50:

Exposure time 4

Species:

Rat

Acute inhalation toxicity (vapour)

ingredient reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute inhalation toxicity (vapour) 16,67 mg/L

Exposure time 4 d

Acute oral toxicity

ingredient sodium azide

Acute oral toxicity 27 mg/kg

Effective dose

LD50:

Species:

Rat

ingredient reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute oral toxicity 862 mg/kg

Effective dose

LD50:

Species:

Rat

skin corrosion/irritation

Assessment/classification

No data available

Respiratory or skin sensitisation

Sensitisation to the respiratory tract

Assessment/classification

No data available

Skin sensitisation

Assessment/classification

May cause an allergic skin reaction.

No data available

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity

Human toxicological data

Result

not relevant

In vitro mutagenicity/genotoxicity

Genetic endpoint

not relevant

In vivo mutagenicity/genotoxicity

Result / evaluation

not relevant

Carcinogenicity

Result / evaluation

No data available

Reproductive toxicity

Assessment/classification

No data available

Adverse effects on sexual function and fertility

Result / evaluation

No data available

Adverse effects on developmental toxicity

Result / evaluation

No data available

Effects on or via lactation

Result

No data available

STOT-single exposure

STOT SE 1 and 2

Dermal specific target organ toxicity (single exposure)

remark

No data available

Inhalative specific target organ toxicity (single exposure)

remark

No data available

Oral specific target organ toxicity (single exposure)

remark

No data available

STOT SE 3

Irritation to respiratory tract

Assessment/classification

No data available

STOT-repeated exposure

STOT RE 1 and 2

Dermal specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

Inhalative specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

Oral specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

Repeated dose toxicity (subacute, subchronic, chronic)

Subacute oral toxicity

remark

No data available

Subacute dermal toxicity

Specific effects:

No data available

Subacute inhalation toxicity

Specific effects:

No data available

Subchronic dermal toxicity

Specific effects:

No data available

Subchronic inhalation toxicity

Specific effects:

No data available

Chronic oral toxicity

Specific effects:

No data available

Chronic dermal toxicity

Specific effects:

No data available

Chronic inhalation toxicity

Specific effects:

No data available

11.2 Information on other hazards

Endocrine disrupting properties

remark

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Phototoxicity

In vitro phototoxicity

evaluation

No data available

In vivo phototoxicity

evaluation

No data available

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Result / evaluation

none

Acute (short-term) toxicity to crustacea

Result / evaluation

none

Chronic (long-term) toxicity to aquatic invertebrate

remark

none

Chronic (long-term) fish toxicity

Result / evaluation

none

Acute (short-term) toxicity to algae and cyanobacteria

ingredient sodium azide

Acute (short-term) toxicity to algae and cyanobacteria 0,348 mg/L

Effective dose

EC50

Test duration 4 d

species

Alge/Wasserpflanzen

Chronic (long-term) toxicity to aquatic algae and cyanobacteria

evaluation parameter:

none

Toxicity to other aquatic plants/organisms

Result / evaluation

none

Toxicity to microorganisms

Result / evaluation

none

Terrestrial toxicity

Effects on soil microorganisms

evaluation

none

Toxicity to soil macroorganisms except of arthropods

Acute earthworm toxicity

evaluation

none

Chronical earthworm toxicity (reproduction)

evaluation

none

Toxicity to terrestrial arthropods

Insect toxicity

evaluation

none

Toxicity to terrestrial plants

Acute plant toxicity

evaluation

none

Chronic plant toxicity

evaluation

none

Toxicity to birds

Acute and subchronic bird toxicity

evaluation

none

Bird reproduction toxicity

evaluation

none

Additional ecotoxicological information

General information

none

12.2 Persistence and degradability

Assessment/classification

The substance meets the criteria of ready degradability as defined in Regulation (EC) No 1272/2008.

12.3 Bioaccumulative potential

Assessment/classification

not applicable

12.4 Mobility in soil

Assessment/classification

No data available

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

remark

No data available

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Directive 2008/98/EC (Waste Framework Directive)

Before intended use

Waste code product 180100

hazardous waste No

Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code product 180107

hazardous waste No

Waste name

chemicals other than those mentioned in 18 01 06

After intended use

Waste code packaging 180100

hazardous waste No

Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code packaging 180107

hazardous waste No

Waste name

chemicals other than those mentioned in 18 01 06

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	not applicable	not applicable	not applicable
14.2 Proper Shipping Name	not applicable	not applicable	not applicable
14.3 Class(es)	not applicable	not applicable	not applicable
14.4 Packing group	not applicable	not applicable	not applicable
14.5 Environmental hazards	not applicable	not applicable	not applicable
14.6 Special precautions for user	not applicable	not applicable	not applicable
14.7 Maritime transport in bulk according to IMO instruments	not applicable	not applicable	not applicable

Additional information

All transport carriers

No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation

Authorisations and/or restrictions on use

authorisations

none

restrictions on use

none

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

See SECTION 2.1 (classification).

Indication of changes

not relevant

Additional information

not relevant



Relevant R-, H- and EUH-phrases (Number and full text)

none

Training advice

none

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name/designation MASTAFLUOR Evans Blue

Article no. (user): 626298

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

remark

The product is intended for professional use.

Sector of uses [SU]

SU20 Health services

1.3 Details of the supplier of the safety data sheet

Manufacturer

Mast Diagnostica GmbH

Feldstraße 20

Germany-23858 Reinfeld

Telephone: +49 4533 20 07 00

Telefax: +49 4533 2007 68

E-mail: mast@mast-diagnostica.de

www.mast-group.com

1.4 Emergency telephone number

Only available during office hours.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

health hazards

Carc. 1B

hazard statements for health hazards

H350 May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

health hazards

Skin Sens. 1A

hazard statements for health hazards

H317 May cause an allergic skin reaction.

Classification procedure

Harmonised (legal) classification.

Physical hazards

hazard statements for physical hazards

none

Environmental hazards

hazard statements for environmental hazards

keine/keiner

Additional hazards

Hazard statements for additional hazards

keine/keiner

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



GHS08



GHS07

Signal word

Danger

Hazard statements

Hazard statements for physical hazards

none

hazard statements for health hazards

H350 May cause cancer.

H317 May cause an allergic skin reaction.

Hazard statements for environmental hazards

none

Hazard statements for additional hazards

none

Precautionary statements

General:

none

Prevention

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P280 Wear protective gloves/protective clothing and eye/face protection.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

Response:

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see on this label).

P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/container to an appropriate recycling or disposal facility.

2.3 Other hazards

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition / information on ingredients

3.1 Substances (not applicable)

3.2 Mixtures

Hazardous ingredients

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) 0,03 - 0,05 ‰

CAS 55965-84-9

INDEX 613-167-00-5

Acute Tox. 2, H330 / Acute Tox. 2, H310 / Acute Tox. 3, H301 / Skin

Corr. 1C, H314 / Eye Dam. 1, H318 / Skin Sens. 1A, H317 / Aquatic

Acute 1, H400 / Aquatic Chronic 1, H410

Tetranatrium-6,6'-[(3,3'-dimethyl-(1,1'-biphenyl-4,4'-diyl)- bis(azo)bis(4-amino-5-hydroxy-1,3-naphthalindisulfonat)] <0,1 %

CAS 314-13-6

Carc. 1B, H350

Specific concentration limit (SCL)

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Skin Corr. 1C

min. >=0,6 %

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Skin Irrit. 2

min. 0,06 %

max. 0,6 %

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Eye Dam. 1

min. 0,6 %

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Eye Irrit. 2

min. 0,06 %

max. 0,6 %

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Skin Sens. 1A

min. >=0,0015 %

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Following skin contact

Remove mechanically (e.g. dab away using wadding or cellulose material) then thoroughly wash the affected skin with a mild cleansing agent and water. In case of skin irritation, consult a physician.

After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

Following ingestion

Rinse mouth thoroughly with water. Do not induce vomiting. Beim Auftreten von Symptomen oder in Zweifelsfällen ärztlichen Rat einholen.

Self-protection of the first aider

First aider: Pay attention to self-protection!

4.2 Most important symptoms and effects, both acute and delayed

Effects

This information is not available.

Symptoms

This information is not available.

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor

Treat symptomatically.

Special treatment

none

SECTION 5: Firefighting measures

Additional information

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

5.1 Extinguishing media

Suitable extinguishing media

Water

Sand

Carbon dioxide (CO₂)

Extinguishing powder

Unsuitable extinguishing media

No data available

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

none

5.3 Advice for firefighters

Special protective equipment for firefighters

Keine besondere Ausrüstung oder Techniken notwendig

SECTION 6: Accidental release measures

Additional information

Betroffene Oberfläche mit gängigen Reinigungsmitteln säubern. Wet clean or vacuum up solids.

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Personal precautions

Use personal protection equipment.

Protective equipment

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

For emergency responders

Personal protection equipment

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

For containment

Suitable material for taking up

Handelsübliche Materialien sind ausreichend.

For cleaning up

Suitable material for diluting or neutralizing

Water

6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on general occupational hygiene

Provide eye shower and label its location conspicuously

Avoid contact with skin, eyes and clothes.

Protective measures

Advices on safe handling

Wear personal protection equipment (refer to section 8).

Measures to prevent fire

No special fire protection measures are necessary.

Environmental precautions

Es sind keine speziellen Schutzmaßnahmen erforderlich.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Lagerung ist unter der auf den Etikett aufgeführten Bedingungen zu erfolgen. Zusätzliche Informationen zur Lagerung sind in den Gebrauchsinformationen aufgeführt.

Hints on joint storage

Materials to avoid

none

Further information on storage conditions

Protect against:

UV-radiation/sunlight

Temperaturen außerhalb des angegebenen Bereichs

storage temperature

Value 2 - 8 °C

7.3 Specific end use(s)

Recommendation

Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

remark

To date, no national critical limit values exist.

8.2 Exposure controls

Personal protection equipment

Eye/face protection

Suitable eye protection

Eye glasses

Eye glasses with side protection

Skin protection

Suitable gloves type

Disposable gloves

Suitable material

NBR (Nitrile rubber)

FKM (fluoro rubber)

CR (polychloroprene, chloroprene rubber)

PVC (Polyvinyl chloride)

Body protection

Suitable protective clothing

lab coat

Respiratory protection

Bei sachgemäßer Anwendung und unter normalen Bedingungen ist ein Atemschutz nicht erforderlich.

Environmental exposure controls

remark

See section 7. No additional measures necessary.

Consumer exposure controls

Measures related to consumer uses of the substance (as such or in preparations).

not relevant

Measures related to the service life of the substance in articles

not relevant

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state

liquid

Colour

blue

Odour

No data available

Odour threshold

No data available

parameter	Method - source - remark
Melting point/freezing point	No data available
Boiling point or initial boiling point and boiling range	No data available
flammability	not relevant
Upper explosion limit	not relevant
lower explosion limit	not relevant

parameter	Method - source - remark
Flash point (°C)	not relevant
Auto-ignition temperature	not relevant
Decomposition temperature	not relevant
pH	No data available
Kinematic viscosity	No data available
Water solubility	No data available
Soluble (g/L) in	not relevant
Fat solubility	No data available
Partition coefficient: n-octanol/water	No data available
Vapour pressure	No data available
Density and/or relative density	No data available
Relative vapour density	No data available
particle characteristics	not relevant
Dynamic viscosity	No data available
flow time	No data available
Thermal sensitivity	A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).
Sensitiveness to impact (J)	A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).

parameter	Method - source - remark
Sensitivity to friction (N)	A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).
Oxidising liquids	No data available
Oxidising solids	not relevant
Oxidising gas	not relevant
9.2 Other information	
Physical hazards	
Explosives	
Justification for data waiving	
The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.	
Flammable gases	
Justification for data waiving	
not relevant	
Aerosols	
Justification for data waiving	
Testing can be waived because substance is not an aerosol.	
Oxidising gas	
Justification for data waiving	
Testing can be waived because substance is a liquid.	
Gases under pressure	
Justification for data waiving	
Testing can be waived because substance is a liquid.	
flammable liquids	
Justification for data waiving	
No data available	
Flammable solids	
Justification for data waiving	
not relevant	
Self-reactive substances and mixtures	
Justification for data waiving	
The classification procedures for self-reactive substances and mixtures need not be applied because there are no chemical groups present in the molecule associated with explosive or selfreactive properties.	
Pyrophoric liquids	
Justification for data waiving	
The study does not need to be conducted because the substance is known to be stable at room temperature for prolonged periods of time (days).	

Pyrophoric solids

Justification for data waiving

not relevant

self-heating substances and mixtures

Justification for data waiving

not relevant

Substances or mixtures which, in contact with water, emit flammable gases

Justification for data waiving

not relevant

Oxidising liquids

Justification for data waiving

No data available

Oxidising solids

Justification for data waiving

not relevant

Organic peroxides

Justification for data waiving

Classification procedure not required, because the substance or the mixture is by definition not an organic peroxide.

Corrosive to metals

Justification for data waiving

not relevant

Desensitised explosives

Justification for data waiving

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

No hazardous reaction when handled and stored according to provisions. Further information on storage conditions: see subsection 7.2.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

Further information on storage conditions: see subsection 7.2.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

Additional information

Toxicological data are not available.

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicokinetics, metabolism and distribution

Human toxicological data

No data available

Non-human toxicological data

remark

There are no data available on the preparation/mixture itself.

Acute toxicity

Assessment/classification

Based on available data, the classification criteria are not met.

skin corrosion/irritation

Assessment/classification

Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Sensitisation to the respiratory tract

Assessment/classification

Based on available data, the classification criteria are not met.

Skin sensitisation

Assessment/classification

May cause an allergic skin reaction.

No data available

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity

Human toxicological data

Result

not relevant

In vitro mutagenicity/genotoxicity

Genetic endpoint

not relevant

In vivo mutagenicity/genotoxicity

Result / evaluation

not relevant

Carcinogenicity

Practical experience/human evidence

Evidence for human carcinogenicity.

Result / evaluation

Kann Krebs erzeugen.

Reproductive toxicity

Assessment/classification

No data available

Adverse effects on sexual function and fertility

Result / evaluation

No data available

Adverse effects on developmental toxicity

Result / evaluation

No data available

Effects on or via lactation

Result

No data available

STOT-single exposure

STOT SE 1 and 2

Dermal specific target organ toxicity (single exposure)

remark

No data available

Inhalative specific target organ toxicity (single exposure)

remark

No data available

Oral specific target organ toxicity (single exposure)

remark

No data available

STOT SE 3

Irritation to respiratory tract

Assessment/classification

No data available

STOT-repeated exposure

STOT RE 1 and 2

Dermal specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

Inhalative specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

Oral specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

Repeated dose toxicity (subacute, subchronic, chronic)

Subacute oral toxicity

remark

No data available

Subacute dermal toxicity

Specific effects:

No data available

Subacute inhalation toxicity

Specific effects:

No data available

Subchronic dermal toxicity

Specific effects:

No data available

Subchronic inhalation toxicity

Specific effects:

No data available

Chronic oral toxicity

Specific effects:

No data available

Chronic dermal toxicity

Specific effects:

No data available

Chronic inhalation toxicity

Specific effects:

No data available

11.2 Information on other hazards

Endocrine disrupting properties

remark

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Phototoxicity

In vitro phototoxicity

evaluation

No data available

In vivo phototoxicity

evaluation

No data available

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Result / evaluation

none

Acute (short-term) toxicity to crustacea

Result / evaluation

none

Chronic (long-term) toxicity to aquatic invertebrate

remark

none

Chronic (long-term) fish toxicity

Result / evaluation

none

Acute (short-term) toxicity to algae and cyanobacteria

Result / evaluation

none

Chronic (long-term) toxicity to aquatic algae and cyanobacteria

evaluation parameter:

none

Toxicity to other aquatic plants/organisms

Result / evaluation

none

Toxicity to microorganisms

Result / evaluation

none

Terrestrial toxicity

Effects on soil microorganisms

evaluation

none

Toxicity to soil macroorganisms except of arthropods

Acute earthworm toxicity

evaluation

none

Chronical earthworm toxicity (reproduction)

evaluation

none

Toxicity to terrestrial arthropods

Insect toxicity

evaluation

none

Toxicity to terrestrial plants

Acute plant toxicity

evaluation

none

Chronic plant toxicity

evaluation

none

Toxicity to birds

Acute and subchronic bird toxicity

evaluation

none

Bird reproduction toxicity

evaluation

none

Additional ecotoxicological information

General information

none

12.2 Persistence and degradability

Assessment/classification

The substance meets the criteria of ready degradability as defined in Regulation (EC) No 1272/2008.

12.3 Bioaccumulative potential

Assessment/classification

not applicable

12.4 Mobility in soil

Assessment/classification

Es keinen keine Informationen vor.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

remark

No data available

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

remark

Non-contaminated packages may be recycled. Consult the appropriate local waste disposal expert about waste disposal.

Directive 2008/98/EC (Waste Framework Directive)

Before intended use

Waste code product 180100

hazardous waste No

Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code product 180107

hazardous waste No

Waste name

chemicals other than those mentioned in 18 01 06

After intended use

Waste code packaging 180100

hazardous waste No

Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code packaging 180107

hazardous waste No

Waste name

chemicals other than those mentioned in 18 01 06

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	2811	not applicable	not applicable
14.2 Proper Shipping Name	TOXIC SOLID, ORGANIC, N.O.S.	not applicable	not applicable
14.3 Class(es)	6.1	not applicable	not applicable
14.4 Packing group	III	not applicable	not applicable
14.5 Environmental hazards	No	not applicable	not applicable
14.6 Special precautions for user	not applicable	not applicable	not applicable
14.7 Maritime transport in bulk according to IMO instruments	not applicable	not applicable	not applicable

Additional information - Land transport (ADR/RID)

Hazard label(s) 6.1

Classification code T2

Limited quantity (LQ) 5 kg

Hazard identification number (Kemler No.) 60

tunnel restriction code E

transport category 2

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation

Authorisations and/or restrictions on use

authorisations

none

restrictions on use

none

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

See SECTION 2.1 (classification).

Indication of changes

not relevant

Additional information

not relevant

Relevant R-, H- and EUH-phrases (Number and full text)

none

Training advice

none

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name/designation MASTAFLUOR mounting medium

Article no. (user): 626299

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

remark

The product is intended for professional use.

Sector of uses [SU]

SU20 Health services

1.3 Details of the supplier of the safety data sheet

Manufacturer

Mast Diagnostica GmbH

Feldstraße 20

Deutschland-23858 Reinfeld

Telephone: +49 4533 20 07 00

Telefax: +49 4533 2007 68

E-mail: mast@mast-diagnostica.de

www.mast-group.com

1.4 Emergency telephone number

Only available during office hours.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

health hazards

Skin Sens. 1A

hazard statements for health hazards

H317 May cause an allergic skin reaction.

Classification procedure

Harmonised (legal) classification.

Physical hazards

hazard statements for physical hazards

none

Environmental hazards

keine/keiner

Additional hazards

keine/keiner

remark

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



GHS07

Hazard statements

Hazard statements for physical hazards

none

hazard statements for health hazards

H317 May cause an allergic skin reaction.

Hazard statements for environmental hazards

none

Hazard statements for additional hazards

none

Precautionary statements

General:

none

Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see on this label).

P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage:

none

Disposal:

P501 Dispose of contents/container to an appropriate recycling or disposal facility.

Supplemental hazard information

Physical properties

none

health hazard properties

none

Environmental properties

none

Other labelling

Standard phrases for special risks for humans or the environment

none

Labelling for contents according to regulation (EC) No. 648/2004

none

Standard phrases for safety precautions for the protection of humans or the environment

General provisions

none

Safety precautions for operators (SPo)

none

Safety precautions related to the environment (SPe)

none

Safety precautions related to good agricultural practice (SPa)

none

Specific safety precautions for rodenticides (SPr)

none

Standard phrases for special risks for humans or the environment

Special risks related to humans (RSh):

none

Special risks related to the environment (RSe):

none

2.3 Other hazards

Adverse environmental effects

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Adverse human health effects and symptoms

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Adverse physicochemical effects

none

Other adverse effects

none

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition / information on ingredients

3.1 Substances (not applicable)

3.2 Mixtures

Hazardous ingredients

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) 0,03 - 0,05 ‰

CAS 55965-84-9

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Acute Tox. 2, H330 / Acute Tox. 2, H310 / Acute Tox. 3, H301 / Skin

Corr. 1C, H314 / Eye Dam. 1, H318 / Skin Sens. 1A, H317 / Aquatic

Acute 1, H400 / Aquatic Chronic 1, H410

Specific concentration limit (SCL)

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Skin Corr. 1C

min. >=0,6 %

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Skin Irrit. 2

min. 0,06 %

max. 0,6 %

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Eye Dam. 1

min. 0,6 %

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Eye Irrit. 2

min. 0,06 %

max. 0,6 %

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard classes and hazard categories

Skin Sens. 1A

min. $\geq 0,0015\%$

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

No special First Aid measures are required.

Following skin contact

Remove mechanically (e.g. dab away using wadding or cellulose material) then thoroughly wash the affected skin with a mild cleansing agent and water.

After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water.

Following ingestion

Rinse mouth thoroughly with water.

Self-protection of the first aider

none

4.2 Most important symptoms and effects, both acute and delayed

Effects

none

Symptoms

none

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor

none

Special treatment

none

SECTION 5: Firefighting measures

Additional information

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

5.1 Extinguishing media

Suitable extinguishing media

Water

Sand

Carbon dioxide (CO₂)

Extinguishing powder

Unsuitable extinguishing media

none

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

none

5.3 Advice for firefighters

Special protective equipment for firefighters

No special equipment or techniques are required.

SECTION 6: Accidental release measures

Additional information

Absorb and remove liquid with absorbent material. Clean the affected surface with standard cleaning agents.

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Personal precautions

none

Protective equipment

none

For emergency responders

Personal protection equipment

none

6.2 Environmental precautions

none

6.3 Methods and material for containment and cleaning up

For containment

Suitable material for taking up

Commercially available materials are sufficient.

For cleaning up

Suitable material for diluting or neutralizing

Water

6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on general occupational hygiene

Provide eye shower and label its location conspicuously

Protective measures

Advices on safe handling

No special technical protective measures are necessary.

Measures to prevent fire

No special fire protection measures are necessary.

Environmental precautions

No special measures are necessary.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Storage conditions are listed on the labels. Additional information concerning the storage are given in the instructions for use.

Hints on joint storage

Materials to avoid

none

Further information on storage conditions

Protect against:

UV-radiation/sunlight

Temperatures outside the listed range.

storage temperature

Value 2 - 8 °C

7.3 Specific end use(s)

Recommendation

Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

remark

To date, no national critical limit values exist.

8.2 Exposure controls

Appropriate engineering controls

remark

See section 7. No additional measures necessary.

Personal protection equipment

Eye/face protection

Suitable eye protection

Eye glasses

Eye glasses with side protection

Skin protection

Suitable gloves type

Disposable gloves

Suitable material

NBR (Nitrile rubber)

Body protection

Suitable protective clothing

lab coat

Respiratory protection

none

Environmental exposure controls

remark

See section 7. No additional measures necessary.

Consumer exposure controls

Measures related to consumer uses of the substance (as such or in preparations).

not relevant

Measures related to the service life of the substance in articles

not relevant

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state

liquid

Colour

colourless

Odour

odourless

Odour threshold

not relevant



parameter	Method - source - remark
Melting point/freezing point	No data available
Boiling point or initial boiling point and boiling range	No data available
flammability	not relevant
Upper explosion limit	not relevant
lower explosion limit	not relevant
Flash point (°C)	not relevant
Auto-ignition temperature	not relevant
Decomposition temperature	not relevant
pH	No data available
Kinematic viscosity	No data available
Water solubility	No data available
Soluble (g/L) in	not relevant
Fat solubility	No data available
Partition coefficient: n-octanol/water	No data available
Vapour pressure	No data available
Density and/or relative density	No data available
Relative vapour density	No data available
particle characteristics	not relevant
Dynamic viscosity	No data available
flow time	No data available
Thermal sensitivity	A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).

parameter	Method - source - remark
Sensitiveness to impact (J)	A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).
Sensitivity to friction (N)	A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).
Oxidising liquids	No data available
Oxidising solids	not relevant
Oxidising gas	not relevant

9.2 Other information

Physical hazards

Explosives

Justification for data waiving

The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.

Flammable gases

Justification for data waiving

not relevant

Aerosols

Justification for data waiving

Testing can be waived because substance is not an aerosol.

Oxidising gas

Justification for data waiving

Testing can be waived because substance is a liquid.

Gases under pressure

Justification for data waiving

Testing can be waived because substance is a liquid.

flammable liquids

Justification for data waiving

not relevant

Flammable solids

Justification for data waiving

Testing can be waived because substance is a liquid.

Self-reactive substances and mixtures

Justification for data waiving

The classification procedures for self-reactive substances and mixtures need not be applied because there are no chemical groups present in the molecule associated with explosive or selfreactive properties.

Pyrophoric liquids

Justification for data waiving

The study does not need to be conducted because the substance is known to be stable at room temperature for prolonged periods of time (days).

Pyrophoric solids

Justification for data waiving

Testing can be waived because substance is a liquid.

self-heating substances and mixtures

Justification for data waiving

not relevant

Substances or mixtures which, in contact with water, emit flammable gases

Justification for data waiving

not relevant

Oxidising liquids

Justification for data waiving

not relevant

Oxidising solids

Justification for data waiving

Testing can be waived because substance is a liquid.

Organic peroxides

Justification for data waiving

Classification procedure not required, because the substance or the mixture is by definition not an organic peroxide.

Corrosive to metals

Justification for data waiving

not relevant

Desensitised explosives

Justification for data waiving

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

No hazardous reaction when handled and stored according to provisions. Further information on storage conditions: see subsection 7.2.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

Further information on storage conditions: see subsection 7.2.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

Does not decompose when used for intended uses. No known hazardous decomposition products.

SECTION 11: Toxicological information

Additional information

Toxicological data are not available.

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicokinetics, metabolism and distribution

Human toxicological data

No data available

Non-human toxicological data

remark

There are no data available on the preparation/mixture itself.

Acute toxicity

Assessment/classification

No data available

skin corrosion/irritation

Assessment/classification

No data available

Respiratory or skin sensitisation

Sensitisation to the respiratory tract

Assessment/classification

No data available

Skin sensitisation

Assessment/classification

May cause an allergic skin reaction.

No data available

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity

Human toxicological data

Result

not relevant

In vitro mutagenicity/genotoxicity

Genetic endpoint

not relevant

In vivo mutagenicity/genotoxicity

Result / evaluation

not relevant

Carcinogenicity

Result / evaluation

No data available

Reproductive toxicity

Assessment/classification

No data available

Adverse effects on sexual function and fertility

Result / evaluation

No data available

Adverse effects on developmental toxicity

Result / evaluation

No data available

Effects on or via lactation

Result

No data available

STOT-single exposure

STOT SE 1 and 2

Dermal specific target organ toxicity (single exposure)

remark

No data available

Inhalative specific target organ toxicity (single exposure)

remark

No data available

Oral specific target organ toxicity (single exposure)

remark

No data available

STOT SE 3

Irritation to respiratory tract

Assessment/classification

No data available

STOT-repeated exposure

STOT RE 1 and 2

Dermal specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

Inhalative specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

Oral specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

Repeated dose toxicity (subacute, subchronic, chronic)

Subacute oral toxicity

remark

No data available

Subacute dermal toxicity

Specific effects:

No data available

Subacute inhalation toxicity

Specific effects:

No data available

Subchronic dermal toxicity

Specific effects:

No data available

Subchronic inhalation toxicity

Specific effects:

No data available

Chronic oral toxicity

Specific effects:

No data available

Chronic dermal toxicity

Specific effects:

No data available

Chronic inhalation toxicity

Specific effects:

No data available

11.2 Information on other hazards

Endocrine disrupting properties

remark

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Phototoxicity

In vitro phototoxicity

evaluation

No data available

In vivo phototoxicity

evaluation

No data available

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Result / evaluation

none

Acute (short-term) toxicity to crustacea

Result / evaluation

none

Chronic (long-term) toxicity to aquatic invertebrate

remark

none

Chronic (long-term) fish toxicity

Result / evaluation

none

Acute (short-term) toxicity to algae and cyanobacteria

Result / evaluation

none

Chronic (long-term) toxicity to aquatic algae and cyanobacteria

evaluation parameter:

none

Toxicity to other aquatic plants/organisms

Result / evaluation

none

Toxicity to microorganisms

Result / evaluation

none

Terrestrial toxicity

Effects on soil microorganisms

evaluation

none

Toxicity to soil macroorganisms except of arthropods

Acute earthworm toxicity

evaluation

none

Chronical earthworm toxicity (reproduction)

evaluation

none

Toxicity to terrestrial arthropods

Insect toxicity

evaluation

none

Toxicity to terrestrial plants

Acute plant toxicity

evaluation

none

Chronic plant toxicity

evaluation

none

Toxicity to birds

Acute and subchronic bird toxicity

evaluation

none

Bird reproduction toxicity

evaluation

none

Additional ecotoxicological information

General information

none

12.2 Persistence and degradability

Assessment/classification

The substance meets the criteria of ready degradability as defined in Regulation (EC) No 1272/2008.

12.3 Bioaccumulative potential

Assessment/classification

not applicable

12.4 Mobility in soil

Assessment/classification

No data available

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

remark

No data available

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Directive 2008/98/EC (Waste Framework Directive)

Before intended use

Waste code product 180100

hazardous waste No

Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code product 180107

hazardous waste No

Waste name

chemicals other than those mentioned in 18 01 06

After intended use

Waste code packaging 180100

hazardous waste No

Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code packaging 180107

hazardous waste No

Waste name

chemicals other than those mentioned in 18 01 06

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	not applicable	not applicable	not applicable
14.2 Proper Shipping Name	not applicable	not applicable	not applicable
14.3 Class(es)	not applicable	not applicable	not applicable
14.4 Packing group	not applicable	not applicable	not applicable
14.5 Environmental hazards	not applicable	not applicable	not applicable
14.6 Special precautions for user	not applicable	not applicable	not applicable
14.7 Maritime transport in bulk according to IMO instruments	not applicable	not applicable	not applicable

Additional information

All transport carriers

No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation

Authorisations and/or restrictions on use

authorisations

none

restrictions on use

none

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

See SECTION 2.1 (classification).

Indication of changes

not relevant

Additional information

not relevant

Relevant R-, H- and EUH-phrases (Number and full text)

none

Training advice

none

ABSCHNITT 1: Bezeichnung des Stoffs beziehungsweise des Gemischs und des Unternehmens

1.1 Produktidentifikator

Handelsname/Bezeichnung MASTAFLUOR PBS

Artikelnr. (Verwender): 626297M

1.2 Relevante identifizierte Verwendungen des Stoffs oder Gemischs und Verwendungen, von denen abgeraten wird

Relevante identifizierte Verwendungen

Bemerkung

Das Produkt ist für den berufsmäßigen Verwender bestimmt.

Verwendungsbereiche [SU]

SU20 Gesundheitswesen

1.3 Einzelheiten zum Lieferanten, der das Sicherheitsdatenblatt bereitstellt

Hersteller

Mast Diagnostica GmbH

Feldstraße 20

Deutschland-23858 Reinfeld

Telefon: +49 4533 20 07 00

Telefax: +49 4533 2007 68

E-Mail: mast@mast-diagnostics.de

www.mast-group.com

1.4 Notrufnummer

Diese Nummer ist nur zu Bürozeiten besetzt.

ABSCHNITT 2: Mögliche Gefahren

2.1 Einstufung des Stoffs oder Gemischs

Zusätzliche Hinweise

Dieses Gemisch enthält keine Inhaltsstoffe, die gesundheits- oder umweltgefährlich im Sinne der Verordnung (EG) Nr. 1272/2008 sind, einen Gemeinschafts- Arbeitsplatzgrenzwert zugeordnet haben, PBT/vPvB klassifiziert oder in der Kandidatenliste enthalten sind.

Einstufung gemäß Verordnung (EG) Nr. 1272/2008 [CLP]

Gesundheitsgefahren

Gefahrenhinweise für Gesundheitsgefahren

keine/keiner

Physikalische Gefahren

Gefahrenhinweise für physikalische Gefahren

keine/keiner

Umweltgefahren

keine/keiner

Zusätzliche Gefahren

keine/keiner

Spezifischer Konzentrationsgrenzwert (SCL)

Gefahrenklassen und Gefahrenkategorien

keine/keiner

2.2 Kennzeichnungselemente

Kennzeichnung gemäß Verordnung (EG) Nr. 1272/2008 [CLP]

Signalwort

keine/keiner

Gefahrenhinweise

Gefahrenhinweise für physikalische Gefahren

keine/keiner

Gefahrenhinweise für Gesundheitsgefahren

keine/keiner

Gefahrenhinweise für Umweltgefahren

keine/keiner

Gefahrenhinweise für zusätzliche Gefahren

keine/keiner

Sicherheitshinweise

Allgemeines:

keine/keiner

Prävention

keine/keiner

Reaktion:

keine/keiner

Aufbewahrung:

keine/keiner

Entsorgung:

keine/keiner

Ergänzende Gefahrenmerkmale

Physikalische Eigenschaften

keine/keiner

gesundheitsgefährliche Eigenschaften

keine/keiner

Umweltgefährliche Eigenschaften

keine/keiner

Andere Kennzeichnung

Standardsätze für besondere Gefahren für Menschen oder die Umwelt

keine/keiner

Kennzeichnung der Inhaltsstoffe gemäß Verordnung EG Nr. 648/2004

keine/keiner

Standardsätze für Sicherheitshinweise zum Schutz des Menschen oder der Umwelt

Allgemeine Bestimmungen

keine/keiner

Sicherheitshinweise für Anwender (SPo)

keine/keiner

Sicherheitshinweise in Bezug auf die Umwelt (SPe)

keine/keiner

Sicherheitshinweise in Bezug auf die ordnungsgemäße landwirtschaftliche Praxis (SPa)

keine/keiner

Sicherheitshinweise in Bezug auf Rodentizide (SPr)

keine/keiner

Standardsätze für besondere Gefahren für Menschen oder die Umwelt

Besondere Gefahren für den Menschen (RSh):

keine/keiner

Besondere Gefahren für die Umwelt (RSe):

keine/keiner

2.3 Sonstige Gefahren

Mögliche schädliche Wirkungen auf die Umwelt

Dieses Produkt enthält keinen Stoff, der gegenüber Nichtzielorganismen endokrine Eigenschaften aufweist, da kein Inhaltstoff die Kriterien erfüllt.

Mögliche schädliche Wirkungen auf den Menschen und mögliche Symptome

Dieses Produkt enthält keinen Stoff, der gegenüber dem Menschen endokrine Eigenschaften aufweist, da kein Inhaltstoff die Kriterien erfüllt.

Mögliche schädliche physikalisch-chemische Wirkungen

keine/keiner

Andere schädliche Wirkungen

keine/keiner

Ergebnisse der PBT- und vPvB-Beurteilung

Die Stoffe im Gemisch erfüllen nicht die PBT/vPvB Kriterien gemäß REACH, Anhang XIII.

ABSCHNITT 3: Zusammensetzung / Angaben zu Bestandteilen

3.1/3.2 Stoffe/Gemische

Beschreibung

nicht anwendbar

Gefährliche Inhaltsstoffe

Zusätzliche Hinweise

keine/keiner

ABSCHNITT 4: Erste-Hilfe-Maßnahmen

4.1 Beschreibung der Erste-Hilfe-Maßnahmen

Allgemeine Hinweise

Es sind keine speziellen Erste-Hilfe-Maßnahmen erforderlich.

Nach Hautkontakt

Mechanisch entfernen (z.B. betroffene Hautpartien mit Watte und Zellstoff abtupfen) und anschließend gründlich mit Wasser und einem milden Reinigungsmittel waschen.

Nach Augenkontakt

Sofort vorsichtig und gründlich mit Augendusche oder mit Wasser spülen.

Nach Verschlucken

Mund gründlich mit Wasser ausspülen.

Selbstschutz des Ersthelfers

keine/keiner

4.2 Wichtigste akute und verzögert auftretende Symptome und Wirkungen

Wirkungen

keine/keiner

Symptome

keine/keiner

4.3 Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung

Hinweise für den Arzt

keine/keiner

Spezialbehandlung

keine/keiner

ABSCHNITT 5: Maßnahmen zur Brandbekämpfung

Zusätzliche Angaben

Das Produkt selbst brennt nicht. Löschmaßnahmen auf die Umgebung abstimmen.

5.1 Löschmittel

Geeignete Löschmittel

Wasser
Sand
Kohlendioxid (CO₂)
Löschpulver

Ungeeignete Löschmittel

keine/keiner

5.2 Besondere vom Stoff oder Gemisch ausgehende Gefahren

Gefährliche Verbrennungsprodukte

keine/keiner

5.3 Hinweise für die Brandbekämpfung

Besondere Schutzausrüstung bei der Brandbekämpfung

Keine besondere Ausrüstung oder Techniken notwendig

ABSCHNITT 6: Maßnahmen bei unbeabsichtigter Freisetzung

Zusätzliche Hinweise

Betroffene Oberfläche mit gängigen Reinigungsmitteln säubern. Feststoffe nass aufnehmen oder aufsaugen.

6.1 Personenbezogene Vorsichtsmaßnahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren

Nicht für Notfälle geschultes Personal

Personenbezogene Vorsichtsmaßnahmen

keine/keiner

Schutzausrüstung

keine/keiner

Einsatzkräfte

Persönliche Schutzausrüstung

keine/keiner

6.2 Umweltschutzmaßnahmen

keine/keiner

6.3 Methoden und Material für Rückhaltung und Reinigung

Für Rückhaltung

Geeignetes Material zum Aufnehmen

Handelsübliche Materialien sind ausreichend.

Für Reinigung

Geeignetes Material zum Verdünnen oder Neutralisieren

Wasser

6.4 Verweis auf andere Abschnitte

Sichere Handhabung: siehe Abschnitt 7

Persönliche Schutzausrüstung: siehe Abschnitt 8

Entsorgung: siehe Abschnitt 13

ABSCHNITT 7: Handhabung und Lagerung

7.1 Schutzmaßnahmen zur sicheren Handhabung

Hinweise zur allgemeinen Industriehygiene

Augenbrausen bereitgestellt und ihr Standort auffällig gekennzeichnet werden

Schutzmaßnahmen

Hinweise zum sicheren Umgang

Es sind keine speziellen technischen Schutzmaßnahmen erforderlich.

Brandschutzmaßnahmen

Keine besonderen Brandschutzmaßnahmen erforderlich.

Umweltschutzmaßnahmen

Es sind keine speziellen Schutzmaßnahmen erforderlich.

7.2 Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten

Technische Maßnahmen und Lagerbedingungen

Lagerung ist unter der auf den Etikett aufgeführten Bedingungen zu erfolgen. Zusätzliche Informationen zur Lagerung sind in den Gebrauchsinformationen aufgeführt.

Zusammenlagerungshinweise

Zu vermeidende Stoffe

keine/keiner

Weitere Angaben zu Lagerbedingungen

Schützen gegen:

UV-Einstrahlung/Sonnenlicht

Temperaturen außerhalb des angegebenen Bereichs

Lagertemperatur

Wert $\geq 2 - \leq 8$ °C

7.3 Spezifische Endanwendungen

Empfehlung

Gebrauchsanweisung beachten.

ABSCHNITT 8: Begrenzung und Überwachung der Exposition/Persönliche Schutzausrüstungen

8.1 Zu überwachende Parameter

Bemerkung

Bisher wurden keine nationalen Grenzwerte festgelegt.

8.2 Begrenzung und Überwachung der Exposition

Geeignete technische Steuerungseinrichtungen

Bemerkung

Siehe Abschnitt 7. Es sind keine darüber hinausgehenden Maßnahmen erforderlich.

Persönliche Schutzausrüstung

Augen-/Gesichtsschutz

Geeigneter Augenschutz

Gestellbrille

Gestellbrille mit Seitenschutz

Hautschutz

Geeigneter Handschuhtyp

Einmalhandschuhe

Geeignetes Material

NBR (Nitrilkautschuk)

Körperschutz

Geeigneter Körperschutz

Laborkittel

Atemschutz

keine/keiner

Begrenzung und Überwachung der Umweltexposition

Bemerkung

Siehe Abschnitt 7. Es sind keine darüber hinausgehenden Maßnahmen erforderlich.



Begrenzung und Überwachung der Verbraucherexposition
Maßnahmen, die sich auf die Verwendung des Stoffes (als solches oder in Zubereitung) durch den Verbraucher beziehen.
nicht relevant
Maßnahmen, die sich auf die Nutzung des Stoffes in Artikel beziehen
nicht relevant

ABSCHNITT 9: Physikalische und chemische Eigenschaften
9.1 Angaben zu den grundlegenden physikalischen und chemischen Eigenschaften

Aussehen
Aggregatzustand
fest
Farbe
weiß
Geruch
geruchlos
Geruchsschwelle
nicht relevant

	Parameter	Methode - Quelle - Bemerkung
	Schmelzpunkt/Gefrierpunkt	Keine Daten verfügbar
	Siedepunkt oder Siedebeginn und Siedebereich	Keine Daten verfügbar
	Entzündbarkeit	nicht relevant
	Obere Explosionsgrenze	nicht relevant
	untere Explosionsgrenze	nicht relevant
	Flammpunkt (°C)	nicht relevant
	Selbstentzündungstemperatur	nicht relevant
	Zersetzungstemperatur	nicht relevant
	pH-Wert	Keine Daten verfügbar
	Viskosität, kinematisch	Keine Daten verfügbar
	Wasserlöslichkeit	Keine Daten verfügbar
	Löslich (g/L) in	nicht relevant
	Fettlöslichkeit	Keine Daten verfügbar
	Verteilungskoeffizient n-Octanol/Wasser	Keine Daten verfügbar
	Dampfdruck	Keine Daten verfügbar
	Dichte und/oder relative Dichte	Keine Daten verfügbar
	Relative Dampfdichte	Keine Daten verfügbar
	Partikeleigenschaften	nicht relevant
	Viskosität, dynamisch	nicht relevant

Parameter	Methode - Quelle - Bemerkung
Auslaufzeit	nicht relevant
Thermische Empfindlichkeit	A.14: Die Prüfungen brauchen nicht vorgenommen zu werden, wenn verfügbare thermodynamische Daten (z. B. Bildungs-, Zersetzungsenthalpie) und/oder das Fehlen bestimmter reaktiver Gruppen in der Strukturformel zweifelsfrei erkennen lassen, dass sich der Stoff nicht unter Bildung von Gasen oder Freisetzung von Wärme schnell zersetzen kann (d. h. die Substanz keine Explosionsgefahr darstellt).
Schlagempfindlichkeit (J)	A.14: Die Prüfungen brauchen nicht vorgenommen zu werden, wenn verfügbare thermodynamische Daten (z. B. Bildungs-, Zersetzungsenthalpie) und/oder das Fehlen bestimmter reaktiver Gruppen in der Strukturformel zweifelsfrei erkennen lassen, dass sich der Stoff nicht unter Bildung von Gasen oder Freisetzung von Wärme schnell zersetzen kann (d. h. die Substanz keine Explosionsgefahr darstellt).
Reibungsempfindlichkeit (N)	A.14: Die Prüfungen brauchen nicht vorgenommen zu werden, wenn verfügbare thermodynamische Daten (z. B. Bildungs-, Zersetzungsenthalpie) und/oder das Fehlen bestimmter reaktiver Gruppen in der Strukturformel zweifelsfrei erkennen lassen, dass sich der Stoff nicht unter Bildung von Gasen oder Freisetzung von Wärme schnell zersetzen kann (d. h. die Substanz keine Explosionsgefahr darstellt).
Oxidierende Flüssigkeiten	nicht relevant
Oxidierende Feststoffe	Keine Daten verfügbar
Oxidierende Gase	nicht relevant

9.2 Sonstige Angaben

Physikalische Gefahren

Explosive Stoffe/Gemische und Erzeugnisse mit Explosivstoff

Begründung für Datenverzicht

Keine Prüfung erforderlich, da in dem Molekül keine chemischen Gruppen vorhanden sind, die auf mögliche explosiven Eigenschaften schließen lassen.

Entzündbare Gase

Begründung für Datenverzicht

nicht relevant

Aerosole

Begründung für Datenverzicht

Auf Tests kann verzichtet werden, da der Stoff kein Aerosol ist.

Oxidierende Gase

Begründung für Datenverzicht

Auf Tests kann verzichtet werden, da der Stoff ein Feststoff ist.

Gase unter Druck

Begründung für Datenverzicht

Auf Tests kann verzichtet werden, da der Stoff ein Feststoff ist.

entzündbare Flüssigkeiten

Begründung für Datenverzicht

nicht relevant

Entzündbare Feststoffe

Begründung für Datenverzicht

nicht relevant

Selbstzersetzliche Stoffe und Gemische

Begründung für Datenverzicht

Die Einstufungsverfahren für selbstzersetzliche Stoffe und Gemische entfallen, da im Molekül keine chemischen Gruppen vorhanden sind, die auf explosive oder selbstzersetzliche Eigenschaften hinweisen.

Pyrophore Flüssigkeiten

Begründung für Datenverzicht

Keine Prüfung erforderlich, da von diesem Stoff bekannt ist, dass er bei Raumtemperatur über längere Zeiträume (Tage) hinweg stabil ist.

Pyrophore Feststoffe

Begründung für Datenverzicht

nicht relevant

selbsterhitzungsfähige Stoffe und Gemische

Begründung für Datenverzicht

nicht relevant

Stoffe und Gemische, die in Berührung mit Wasser entzündbare Gase entwickeln

Begründung für Datenverzicht

nicht relevant

Oxidierende Flüssigkeiten

Begründung für Datenverzicht

nicht relevant

Auf Tests kann verzichtet werden, da der Stoff ein Feststoff ist.

Oxidierende Feststoffe

Begründung für Datenverzicht

nicht relevant

Organische Peroxide

Begründung für Datenverzicht

Klassifizierungsverfahren nicht erforderlich, da es sich bei dem Stoff oder dem Gemisch definitionsgemäß nicht um ein organisches Peroxid handelt.

Korrosiv gegenüber Metallen

Begründung für Datenverzicht

nicht relevant

Desensibilisierte Stoffe/Gemische

Begründung für Datenverzicht

Keine Daten verfügbar

ABSCHNITT 10: Stabilität und Reaktivität

10.1 Reaktivität

Für dieses Produkt oder seine Inhaltsstoffe liegen keine speziellen Daten bezüglich der Reaktivität vor.

10.2 Chemische Stabilität

Bei bestimmungsgemäßer Handhabung und Lagerung treten keine gefährlichen Reaktionen auf. Weitere Angaben zu Lagerbedingungen: siehe Unterabschnitt 7.2.

10.3 Möglichkeit gefährlicher Reaktionen

Bei bestimmungsgemäßer Handhabung und Lagerung treten keine gefährlichen Reaktionen auf.

10.4 Zu vermeidende Bedingungen

Weitere Angaben zu Lagerbedingungen: siehe Unterabschnitt 7.2.

10.5 Unverträgliche Materialien

Keine weiteren relevanten Informationen verfügbar.

10.6 Gefährliche Zersetzungsprodukte

Zersetzt sich nicht bei der vorgesehenen Verwendung. Es sind keine gefährlichen Zersetzungsprodukte bekannt.

ABSCHNITT 11: Toxikologische Angaben

Zusätzliche Angaben

Toxikologische Daten liegen keine vor.

11.1 Angaben zu den Gefahrenklassen im Sinne der Verordnung (EG) Nr. 1272/2008

Toxikokinetik, Stoffwechsel und Verteilung

Humantoxikologische Daten

Keine Daten verfügbar

Nicht humantoxikologische Daten

Bemerkung

Es sind keine Daten für die Zubereitung/das Gemisch verfügbar.

Akute Toxizität

Abschätzung/Einstufung

Keine Daten verfügbar

Ätz-/Reizwirkung auf die Haut

Abschätzung/Einstufung

Keine Daten verfügbar

Sensibilisierung der Atemwege/Haut

Sensibilisierung der Atemwege

Abschätzung/Einstufung

Keine Daten verfügbar

Sensibilisierung der Haut

Abschätzung/Einstufung

Keine Daten verfügbar

CMR-Wirkungen (krebserzeugende, erbgutverändernde und fortpflanzungsgefährdende Wirkung)

Keimzellmutagenität

Humantoxikologische Daten

Ergebnis

nicht relevant

In-vitro-Mutagenität/Genotoxizität

Genetischer Endpunkt

nicht relevant

In-vivo-Mutagenität/Genotoxizität

Ergebnis / Bewertung

nicht relevant

Karzinogenität

Ergebnis / Bewertung

Keine Daten verfügbar

Reproduktionstoxizität

Abschätzung/Einstufung

Keine Daten verfügbar

Mögliche schädliche Wirkungen auf Sexualfunktion und Fruchtbarkeit

Ergebnis / Bewertung

Keine Daten verfügbar

Mögliche schädliche Wirkungen auf die Entwicklungstoxizität

Ergebnis / Bewertung

Keine Daten verfügbar

Wirkungen auf und über die Muttermilch

Ergebnis

Keine Daten verfügbar

Spezifische Zielorgan-Toxizität bei einmaliger Exposition

STOT SE 1 und 2

Dermale spezifische Zielorgantoxizität (einmalige Exposition)

Bemerkung

Keine Daten verfügbar

Inhalative spezifische Zielorgantoxizität (einmalige Exposition)

Bemerkung

Keine Daten verfügbar

Orale spezifische Zielorgantoxizität (einmalige Exposition)

Bemerkung

Keine Daten verfügbar

STOT SE 3

Reizung der Atemwege

Abschätzung/Einstufung

Keine Daten verfügbar

Spezifische Zielorgan-Toxizität bei wiederholter Exposition

STOT RE 1 und 2

Dermale spezifische Zielorgantoxizität (wiederholte Exposition)

Abschätzung/Einstufung

Keine Daten verfügbar

Inhalative spezifische Zielorgantoxizität (wiederholte Exposition)

Abschätzung/Einstufung

Keine Daten verfügbar

Orale spezifische Zielorgantoxizität (wiederholte Exposition)

Abschätzung/Einstufung

Keine Daten verfügbar

Toxizität nach wiederholter Aufnahme (subakut, subchronisch, chronisch)

Subakute orale Toxizität

Bemerkung

Keine Daten verfügbar

Subakute dermale Toxizität

Spezifische Wirkungen:

Keine Daten verfügbar

Subakute inhalative Toxizität

Spezifische Wirkungen:

Keine Daten verfügbar

Subchronische dermale Toxizität

Spezifische Wirkungen:

Keine Daten verfügbar

Subchronische inhalative Toxizität

Spezifische Wirkungen:

Keine Daten verfügbar

Chronische orale Toxizität

Spezifische Wirkungen:

Keine Daten verfügbar

Chronische dermale Toxizität

Spezifische Wirkungen:

Keine Daten verfügbar

Chronische inhalative Toxizität

Spezifische Wirkungen:

Keine Daten verfügbar

11.2 Angaben über sonstige Gefahren

Endokrinschädliche Eigenschaften

Bemerkung

Dieses Produkt enthält keinen Stoff, der gegenüber dem Menschen endokrine Eigenschaften aufweist, da kein Inhaltstoff die Kriterien erfüllt.

Phototoxizität

In-vitro-Phototoxizität

Bewertung

Keine Daten verfügbar

In-vivo-Phototoxizität

Bewertung

Keine Daten verfügbar

ABSCHNITT 12: Umweltbezogene Angaben

12.1 Toxizität

Aquatische Toxizität

Akute (kurzfristige) Fischtoxizität

Ergebnis / Bewertung

keine/keiner

Akute (kurzfristige) Toxizität für Krebstiere

Ergebnis / Bewertung

keine/keiner

Chronische (langfristige) Toxizität für wirbellose Wasserorganismen

Bemerkung

keine/keiner

Chronische (langfristige) Fischtoxizität

Ergebnis / Bewertung

keine/keiner

Akute (kurzfristige) Toxizität für Algen und Cyanobakterien

Ergebnis / Bewertung

keine/keiner

Chronische (langfristige) Toxizität für Algen und Cyanobakterien

Auswerteparameter:

keine/keiner

Toxizität für andere aquatische Wasserpflanzen/Organismen

Ergebnis / Bewertung

keine/keiner

Toxizität für Mikroorganismen

Ergebnis / Bewertung

keine/keiner

Terrestrische Toxizität

Wirkung auf Bodenmikroorganismen

Bewertung

keine/keiner

Toxizität für Bodenorganismen mit Ausnahme von Arthropoden

Akute Regenwurmtoxizität

Bewertung

keine/keiner

Chronische Regenwurmtoxizität (Reproduktion)

Bewertung

keine/keiner

Toxizität für Landarthropoden

Insektentoxizität

Bewertung

keine/keiner

Toxizität für Landpflanzen

Akute Pflanzentoxizität

Bewertung

keine/keiner

Chronische Pflanzentoxizität

Bewertung

keine/keiner

Vogeltoxizität

Akute und subchronische Vogeltoxizität

Bewertung

keine/keiner

Vogeltoxizität (Reproduktion)

Bewertung

keine/keiner

Zusätzliche ökotoxikologische Informationen

Allgemeine Hinweise

keine/keiner

12.2 Persistenz und Abbaubarkeit

Abschätzung/Einstufung

Der Stoff erfüllt das Kriterium der schnellen Abbaubarkeit im Sinne der Verordnung (EG) Nr. 1272/2008.

12.3 Bioakkumulationspotenzial

Abschätzung/Einstufung

nicht anwendbar

12.4 Mobilität im Boden

Abschätzung/Einstufung

Es liegen keine Informationen vor.

12.5 Ergebnisse der PBT- und vPvB-Beurteilung

Die Stoffe im Gemisch erfüllen nicht die PBT/vPvB Kriterien gemäß REACH, Anhang XIII.

12.6 Endokrinschädliche Eigenschaften

Bemerkung

Keine Daten verfügbar

12.7 Andere schädliche Wirkungen

Es liegen keine Informationen vor.

ABSCHNITT 13: Hinweise zur Entsorgung

13.1 Verfahren der Abfallbehandlung

Richtlinie 2008/98/EG (Abfallrahmenrichtlinie)

Vor bestimmungsgemäßen Gebrauch

Abfallschlüssel Produkt 180100

gefährlicher Abfall Nein

Abfallbezeichnung

Abfälle aus der Geburtshilfe, Diagnose, Behandlung oder Vorbeugung von Krankheiten beim Menschen

Abfallschlüssel Produkt 180107

gefährlicher Abfall Nein

Abfallbezeichnung

Chemikalien mit Ausnahme derjenigen, die unter 18 01 06 fallen

Nach bestimmungsgemäßen Gebrauch

Abfallschlüssel Verpackung 180100

gefährlicher Abfall Nein

Abfallbezeichnung

Abfälle aus der Geburtshilfe, Diagnose, Behandlung oder Vorbeugung von Krankheiten beim Menschen

Abfallschlüssel Verpackung 180107

gefährlicher Abfall Nein

Abfallbezeichnung

Chemikalien mit Ausnahme derjenigen, die unter 18 01 06 fallen

ABSCHNITT 14: Angaben zum Transport

	Landtransport (ADR/RID)	Seeschiffstransport (IMDG)	Lufttransport (ICAO-TI / IATA-DGR)
14.1 UN-Nummer oder ID-Nummer	nicht anwendbar	nicht anwendbar	nicht anwendbar
14.2 Offizielle Benennung für die Beförderung	nicht anwendbar	nicht anwendbar	nicht anwendbar



	Landtransport (ADR/RID)	Seeschifftransport (IMDG)	Lufttransport (ICAO-TI / IATA-DGR)
14.3 Klasse(n)	nicht anwendbar	nicht anwendbar	nicht anwendbar
14.4 Verpackungsgruppe	nicht anwendbar	nicht anwendbar	nicht anwendbar
14.5 Umweltgefahren	nicht anwendbar	nicht anwendbar	nicht anwendbar
14.6 Besondere Vorsichtsmaßnahmen für den Verwender	nicht anwendbar	nicht anwendbar	nicht anwendbar
14.7 Massengutbeförderung auf dem Seeweg gemäß IMO- Instrumenten	nicht anwendbar	nicht anwendbar	nicht anwendbar

Zusätzliche Angaben

Alle Verkehrsträger

Kein Gefahrgut im Sinne dieser Transportvorschriften.

ABSCHNITT 15: Rechtsvorschriften

15.1 Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/spezifische Rechtsvorschriften für den Stoff oder das Gemisch

EU-Vorschriften

Zulassungen und/oder Verwendungsbeschränkungen

Zulassungen

keine/keiner

Verwendungsbeschränkungen

keine/keiner

15.2 Stoffsicherheitsbeurteilung

Stoffsicherheitsbeurteilungen für Stoffe in dieser Mischung wurden nicht durchgeführt.

ABSCHNITT 16: Sonstige Angaben

Einstufung von Gemischen und verwendete Bewertungsmethode gemäß Verordnung (EG) Nr. 1272/2008 [CLP]

Siehe Abschnitt 2.1 (Einstufung).

Änderungshinweise

nicht relevant

Zusätzliche Hinweise

nicht relevant

Wortlaut der R-, H- und EUH-Sätze (Nummer und Volltext)

keine/keiner

Schulungshinweise

keine/keiner