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BAEROSTAB ZE 603

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1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : **BAEROSTAB ZE 603**

Other means of Identification : None

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

Use of the : Manufacture of plastics products

Substance/Mixture Polymer additive

Stabilizer

Restrictions on Use : None known

1.3 Details of the supplier of the safety data sheet

Company : Baerlocher Production USA LLC

5890 Highland Ridge Drive

Cincinnati, OH 45232

Telephone : Day 330-602-1528, 330-602-1531 or -1530

: Night 513-207-1620 or 513-604-2327

E-mail address : Hotline.PS@baerlocher.com Responsible/issuing person : Product Safety Department

1.4 Emergency telephone number (0 - 24 h)

Tel.: 800-424-9300 USA or 703-527-3887

2. Hazards identification

2.1 Classification of the substance or mixture

Skin irritation, Category 2

H315: Causes skin irritation.

Eye irritation, Category 2

H319: Causes serious eye irritation.

Skin sensitisation, Category 1

H317: May cause an allergic skin reaction.

Chronic aquatic toxicity, Category 2 H411: Toxic to aquatic life with long lasting effects.

Sensitising R43: May cause sensitisation by skin contact.

Irritant R36/38: Irritating to eyes and skin.

Dangerous for the environment R51/53: Toxic to aquatic organisms, may cause

long-term adverse effects in the aquatic

environment.

2.2 Label elements

Hazard pictograms :





Signal word : Warning

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Hazard statements : H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**

P261 Avoid breathing dust/ fume/ gas/ mist/

vapours/ spray.

P273 Avoid release to the environment.
P280 Wear eye protection/ face protection.

P280 Wear protective gloves.

Response:

P333 + P313 If skin irritation or rash occurs: Get medical

advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

2.3 Other hazards

The product is combustible. May produce an allergic reaction.

3. Composition/information on ingredients

3.2 Mixtures

Chemical nature : Preparation

Hazardous components

Chemical Name	CAS-No.	Concentration [%]
Epoxy resin	*Trade Secret	> 50*
2,6-di-tert-butyl-p-cresol	128-37-0	< 10*
Dibenzoyl methane	120-46-7	< 10*

^{*}Trade Secret – The specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

4. First aid measures

4.1 Description of first aid measures

General advice : Remove and wash contaminated clothing before re-use.

If inhaled : Move to fresh air.

In case of skin contact : Wash off with soap and plenty of water.

Take off contaminated clothing and shoes immediately.

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In case of eye contact : Rinse with plenty of water.

If swallowed : Consult a doctor and show this safety datasheet.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray

Foam

Carbon dioxide (CO2)

Dry chemical

Sand

Unsuitable extinguishing

media

: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Smoke and fumes, toxic.

5.3 Advice for firefighters

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Remove all sources of ignition.

Ensure adequate ventilation. Avoid contact with skin and eyes. Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Avoid subsoil penetration.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

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6.4 Reference to other sections

For personal protection see section 8.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Take precautionary measures against static discharges.

Keep away from sources of ignition - No smoking.

Provide sufficient air exchange and/or exhaust in work rooms.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Store at room temperature in the original container. Keep container tightly closed in a dry and well-ventilated

place.

Further information on storage conditions

: Handle in accordance with good industrial hygiene and safety

practice.

German storage class : 10 Combustible liquids

7.3 Specific end use(s)

: Consult the technical guidelines for the use of this

substance/mixture.

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8. Exposure controls/personal protection

8.1 Control parameters

		Regulatory Limits		Recommended Limits		
				Cal/OSHA		
		OSH	A PEL	PEL	NIOSH REL	ACGIH TLV
					Up to 10-	
				8-hour	hour	
						8-hour
				TWA	TWA	TWA
				(ST) STEL	(ST) STEL	(ST) STEL
Substance	CAS No.	ppm	mg/m ³	(C) Ceiling	(C) Ceiling	(C) Ceiling
2,6-di-tert-Butyl-p- cresol	128-37-0		10		10 mg/m ³	IHL: 2 mg/m ³ (TLV)
Particulates Not						
Otherwise Regulated						
(PNOR)						
Inhalable						10 mg/m ³
Respirable fraction			5	5 mg/m³		3 mg/m ³

8.2 Exposure controls

Engineering measures

Local exhaust

Personal protective equipment

Respiratory protection : In case of insufficient ventilation:

Protective mask against solvent vapours (A2 Filter)

Hand protection : protective gloves acc. to EN 374, e.g. neoprene, thickness:

min. 0,7 mm

Eye protection : Safety glasses

Skin and body protection : Long sleeved clothing

Rubber apron

Hygiene measures : When using do not eat or drink.

Do not smoke.

Wash hands before breaks and at the end of workday.

Shower or bathe at the end of working. Keep working clothes separately.

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Protective measures : antistatic shoes

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

Avoid subsoil penetration.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : colourless
Odour : characteristic
pH : no data available

Boiling point/boiling range : > 200 °C, Value refers to the solvent.

Flash point : $> 100 \, ^{\circ}\text{C}$

Lower explosion limit : no data available
Upper explosion limit : no data available

Vapour pressure : < 0,04 hPa, 25 °C, Value refers to the solvent.

Density : no data available
Water solubility : slightly soluble
Partition coefficient: n- : no data available

octanol/water

Auto-ignition temperature : no data available

Ignition temperature : ca. 460 °C, Value refers to the solvent.

Viscosity, dynamic : no data available Viscosity, kinematic : no data available Odor Threshold : No data available Melting/Freezing Point : No data available : No data available **Evaporation Rate** Flammability : No data available Vapor Density : No data available **Decomposition Temperature** : No data available

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9.2 Other information

No data available

10. Stability and reactivity

10.1 Reactivity

Stable at normal ambient temperature and pressure.

10.2 Chemical stability

No decomposition if stored normally.

10.3 Possibility of hazardous reactions

Hazardous reactions : Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Sources of ignition

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition

products

: No decomposition if used as directed.

11. Toxicological information

11.1 Information on toxicological effects

Components:

Epoxy resin:

Acute oral toxicity : LD50: > 2.000 mg/kg, rat, OECD Test Guideline 420, GLP:

yes, Based on available data, the classification criteria are not

met.

Acute inhalation toxicity : LC50: rat, Limit Test, An LC50/inhalation/4h/rat could not be

determined because no mortality of rats was observed at the maximum achievable concentration., Based on available data,

the classification criteria are not met.

Acute dermal toxicity : LD50: > 2.000 mg/kg, rat, OECD Test Guideline 402, GLP:

yes, Based on available data, the classification criteria are not

met.

Skin corrosion/irritation : rabbit, Result: slight irritation, OECD Test Guideline 404, 4 h,

GLP: yes, Classification, Labelling according to EC Directives,

Regulation (EC) No 1272/2008, Annex VI, Table 3.1

Serious eye damage/eye

irritation

: rabbit, Result: not irritating, OECD Test Guideline 405, GLP:

yes, Classification, Labelling according to EC Directives,

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sion 1.0	Revision Date 24.08.2015
	Regulation (EC) No 1272/2008, Annex VI, Table 3.1
Respiratory or skin sensitisation	: Skin sensitisation
	: LLNA, mouse, Result: Sensitising, OECD Test Guideline 429, GLP: yes
	: Respiratory sensitisation, Not classified due to lack of data.
Germ cell mutagenicity	
Genotoxicity in vitro	 Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, standardised international/national methodology, GLP: yes
	: In vitro gene mutation study in mammalian cells, Result: Positive results were obtained in some in vitro tests.
	: Chromosome aberration test in vitro, Result: Positive results were obtained in some in vitro tests.
Genotoxicity in vivo	: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis), mouse, Result: negative
	: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis), hamster, Result: negative
	: In vivo micronucleus test, mouse, Result: negative
	: In vivo micronucleus test, hamster, Result: negative
	: Genotoxicity in vivo, mouse, Result: negative, Based on available data, the classification criteria are not met.
Carcinogenicity	: rat / mouse, Dermal, OECD Test Guideline 453, GLP: yes
	 rat, Oral, OECD Test Guideline 453, GLP: yes, Based on available data, the classification criteria are not met.
Reproductive toxicity	: Two-generation reproductive toxicity, rat, OECD Test Guideline 416, GLP: yes, Based on available data, the classification criteria are not met.
Teratogenicity	: rat, Oral, OECD Test Guideline 414, GLP: yes
	 rabbit, Dermal, standardised international/national methodology, GLP: yes
	 rabbit, Oral, OECD Test Guideline 414, GLP: yes, Based on available data, the classification criteria are not met.
STOT - single exposure	: Remarks: Based on available data, the classification criteria are not met.
STOT - repeated exposure	: rat, Oral, Exposure time: 90 d, OECD Test Guideline 408, GLP: yes
STOT - repeated exposure	 rat / mouse, Dermal, Exposure time: 90 d, OECD Test Guideline 411, GLP: yes, Based on available data, the classification criteria are not met.

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ersion 1.0		Revision Date 24.08.2015	
Aspiration toxicity	:	Based on available data, the classification criteria are not n	net.
Further information		CMR effects, Carcinogenicity, Mutagenicity, Reproductive toxicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not not seem to be considered as a constant of the co	net.
	:	Likely route of exposure, Inhalation, Ingestion, Skin contact	t
2,6-di-tert-butyl-p-cresol : Acute oral toxicity	:	LD50: > 2.930 mg/kg, rat, OECD Test Guideline 401, GLP: yes, Based on available data, the classification criteria are met.	
Acute inhalation toxicity	:	Based on available data, the classification criteria are not n	net.
Acute dermal toxicity	:	LD50: > 2.000 mg/kg, rat, OECD Test Guideline 402, GLP: yes, Based on available data, the classification criteria are met.	
Skin corrosion/irritation	:	rabbit, Result: slight irritation, 24 h, Based on available data the classification criteria are not met.	а,
Serious eye damage/eye irritation	:	rabbit, Result: slight irritation, 72 h, Based on available data the classification criteria are not met.	а,
Respiratory or skin sensitisation	:	Skin sensitisation	
	:	Patch Test 24 Hrs., Humans, Result: not sensitising, standardised international/national methodology, Based on available data, the classification criteria are not met.	I
	:	Respiratory sensitisation, Based on available data, the classification criteria are not met.	
Germ cell mutagenicity			
Genotoxicity in vitro	:	Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, GLP: no	
	:	Mutagenicity (in vitro mammalian cytogenetic test), CHO, Result: negative, GLP: no	
	:	In vitro gene mutation study in mammalian cells, mouse lymphoma cells, Result: contradictive, GLP: no	
	:	In vitro gene mutation study in mammalian cells, Liver cells (rat), Result: negative, GLP: no, Based on available data, to classification criteria are not met.	
Genotoxicity in vivo	:	In vivo micronucleus test, mouse, GLP: no, Result: negativ	е
	:	Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis), rat, Oral, 9 months, GLP: no, Result: negative, Based on available data, the classification criteria are not no	
Carcinogenicity	:	rat, Oral, standardised international/national methodology, GLP: yes, Based on available data, the classification criteri	а

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	are not met.
Reproductive toxicity	: rat, Oral, Test period: 22 months, standardised international/national methodology, GLP: yes, Based on available data, the classification criteria are not met.
Teratogenicity	 rat, Test period: 22 months, Oral, standardised international/national methodology, GLP: yes, Based on available data, the classification criteria are not met.
STOT - single exposure	: Remarks: Based on available data, the classification criteria are not met.
STOT - repeated exposure	 rat, Oral, standardised international/national methodology, GLP: yes, Based on available data, the classification criteria are not met.
Aspiration toxicity	: Based on available data, the classification criteria are not met.
Further information	: CMR effects, Carcinogenicity, Mutagenicity, Reproductive toxicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not met.
	: Likely route of exposure, Inhalation, Ingestion, Skin contact
Dibenzoyl methane :	
Acute oral toxicity	 LD50: > 2.000 mg/kg, rat, OECD Test Guideline 423, GLP: yes, Based on available data, the classification criteria are not met.
Acute inhalation toxicity	: study scientifically unjustified
Acute dermal toxicity	: LD50: > 2.000 mg/kg, rat, OECD Test Guideline 402, GLP: yes
Skin corrosion/irritation	 in vitro assay, Result: not irritating, OECD Test Guideline 439, GLP: yes, Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	 rabbit, Result: not irritating, OECD Test Guideline 405, Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	: Skin sensitisation
	: LLNA, mouse, Result: Sensitising, OECD Test Guideline 429, GLP: yes
	: Respiratory sensitisation
	: Not classified due to lack of data.
Germ cell mutagenicity	
Genotoxicity in vitro	: Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471, GLP: yes
	: In vitro gene mutation study in mammalian cells, mouse

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lymphoma cells, Result: positive, OECD Test Guideline 476,

GLP: yes

: Mutagenicity (in vitro mammalian cytogenetic test), CHL, Result: positive, OECD Test Guideline 487, GLP: yes, Based

on available data, the classification criteria are not met.

Carcinogenicity Not classified due to lack of data. Reproductive toxicity : Not classified due to lack of data. Teratogenicity : Not classified due to lack of data.

: Remarks: Not classified due to lack of data. STOT - single exposure

STOT - repeated exposure : Not classified due to lack of data. : Not classified due to lack of data. Aspiration toxicity

Further information : CMR effects, Carcinogenicity, Mutagenicity, Reproductive

> toxicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not met.

: Likely route of exposure, Inhalation, Ingestion, Skin contact

11.2 Carcinogenicity

Contains no known or suspected carcinogens listed by IARC, NTP or OSHA at or above reportable quantities.

12. Ecological information

12.1 Toxicity

Components:

Epoxy resin:

Toxicity to fish : LC50: 1,5 mg/l, 96 h, Oncorhynchus mykiss (rainbow trout),

static test, OECD Test Guideline 203, GLP: no

: LC50: 1,2 mg/l, 96 h, Oncorhynchus mykiss (rainbow trout),

semi-static test, standardised international/national

methodology, GLP: no

Toxicity to daphnia and other

aquatic invertebrates

: EC50: 1,7 mg/l, 48 h, Daphnia magna (Water flea), static test,

OECD Test Guideline 202, GLP: yes

: EC50: 9,4 mg/l, 72 h, Scenedesmus capricornutum (fresh Toxicity to algae

water algae), static test, standardised international/national

methodology, GLP: no

Toxicity to bacteria : IC50: > 100 mg/l, activated sludge, Respiration inhibition

Toxicity to fish (Chronic

toxicity)

study scientifically unjustified

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Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC: 0,3 mg/l, 21 d, Daphnia magna (Water flea), semi-

static test, OECD Test Guideline 211, GLP: yes

2,6-di-tert-butyl-p-cresol:

Toxicity to fish : LC0: >= 0,57 mg/l, 96 h, Danio rerio (zebra fish), semi-static

test, Directive 67/548/EEC, Annex V. C.1., GLP; ves

Toxicity to daphnia and other

aquatic invertebrates

: NOEC: 0,15 - 0,23 mg/l, 48 h, Daphnia magna (Water flea),

static test, OECD Test Guideline 202, GLP: yes

Toxicity to algae : EC50: > 0,4 mg/l, 72 h, Desmodesmus subspicatus (green

algae), static test, Directive 67/548/EEC, Annex V, C.3., GLP:

yes

Toxicity to bacteria : EC50: > 10.000 mg/l, 3 h, activated sludge, Respiration

inhibition, standardised international/national methodology,

GLP: yes

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: EC50: 0,39 mg/l, 21 d, Daphnia magna (Water flea), semistatic test, standardised international/national methodology,

GLP: yes

NOEC: 0,316 mg/l, 21 d, Daphnia magna (Water flea), semistatic test, standardised international/national methodology,

GLP: yes

Dibenzoyl methane:

Toxicity to fish : LC50: 11,313 mg/l, 96 h, QSAR

Toxicity to daphnia and other

aquatic invertebrates

: LC50: 7,519 mg/l, 48 h, QSAR

Toxicity to algae : 2,68 mg/l, 96 h, QSAR

Ecotoxicology Assessment

Acute aquatic toxicity : Based on available data, the classification criteria are not met.

Chronic aquatic toxicity : Based on available data, the classification criteria are not met.

12.2 Persistence and degradability

Components:

Epoxy resin:

Biodegradability : aerobic, 5 %, Result: Not biodegradable., Exposure time: 28

d, activated sludge, OECD Test Guideline 301 F, GLP: yes

2,6-di-tert-butyl-p-cresol:

Biodegradability : aerobic, Result: Readily biodegradable., Exposure time: 112

d, activated sludge, OECD Test Guideline 301, GLP: no

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: aerobic, Biochemical oxygen demand, Result: Partially

biodegradable., Exposure time: 28 d, activated sludge, OECD

Test Guideline 301

: aerobic, Result: Biodegradable, Exposure time: 24 d, Soil,

OECD Test Guideline 304A, GLP: no,

According to the results of tests of biodegradability this product is considered as being readily biodegradable.

Dibenzoyl methane:

Biodegradability : aerobic, 89 %, Result: Readily biodegradable., Exposure time:

28 d, activated sludge, ISO 9439

12.3 Bioaccumulative potential

Components: Epoxy resin:

Bioaccumulation : Bioconcentration factor (BCF): 31, QSAR,

Bioaccumulative potential slightly

2,6-di-tert-butyl-p-cresol:

Bioaccumulation : Cyprinus carpio (Carp), Exposure time: 28 d, 25 °C,

Concentration: 0,005 mg/l, Bioconcentration factor (BCF): 330 - 1.800, standardised international/national methodology

: Cyprinus carpio (Carp), Exposure time: 56 d, 25 °C,

Concentration: 0,05 mg/l, Bioconcentration factor (BCF): 230 - 2.500, standardised international/national methodology

Dibenzoyl methane:

Bioaccumulation

study scientifically unjustified

12.4 Mobility in soil

Components: Epoxy resin:

Mobility : QSAR, Predicted distribution to environmental compartments,

Soil, Water

2,6-di-tert-butyl-p-cresol:

Mobility : After release, disperses into the air.

Dibenzoyl methane:

Mobility : no data available

12.5 Results of PBT and vPvB assessment

Components: Epoxy resin:

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

2,6-di-tert-butyl-p-cresol:

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

DibenzovI methane:

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

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12.6 Other adverse effects

Epoxy resin:

Further information : No information available.

2,6-di-tert-butyl-p-cresol:

Further information : No information available.

Dibenzoyl methane:

Further information : No information available.

13. Disposal considerations

13.1 Waste treatment methods

Product : Dispose of contents/container in accordance with

local/regional/national/international/regulations.

14. Transport information

14.1 UN number

DOT

Not dangerous goods

14.2 Proper shipping name

DOT

Not dangerous goods

14.3 Transport hazard class

TOC

Not dangerous goods

14.4 Packing group

DOT

Not dangerous goods

14.5 Environmental hazards

DOT

Not dangerous goods

14.6 Special precautions for user

See this safety data sheet chapter 6. - 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks : No transport according to Annex II of MARPOL 73/78 and the

IBC Code

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15. Regulatory information

Section 313 Supplier Notification (USA)

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

Component CAS/313 Category Code Wt (%)

Not applicable

National Legislation:

Registration Status:

TSCA : listed

DSL : listed

AICS : listed

ENCS : listed

ECL : listed

PICCS : listed

CHINA : listed

EINECS : listed

16. Other information

Date of Preparation or last change: 24.08.2015

HMIS Rating (USA)

Health : 2
Flammability : 1
Reactivity : 1
Personal Protection : G

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Full text of R-phrases

R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.

R50 Very toxic to aquatic organisms.

R51 Toxic to aquatic organisms.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

R53 May cause long-term adverse effects in the aquatic environment.

Full text of H-Statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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