



SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

122000001437

## Bayticol® pour on 1% - Bulk

Version 6.0

Revision Date 04.01.2018

Print Date 12.05.2020

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Bayticol® pour on 1% - Bulk  
Flumethrin pour on 1% - Bulk

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

Use of the : veterinary medicine, unfinished  
Substance/Mixture

#### 1.3 Details of the supplier of the safety data sheet

##### Company

Bayer AG  
CHS - SCR  
D-51368 LEVERKUSEN  
Tel.: +49 (0) 214 30 52482  
Mail: bhc-md-oeko@bayer.com

#### 1.4 Emergency telephone number

In case of emergency: +49 (0) 214 30 99300 (Central Emergency Response Center Bayer)

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

##### GHS-Classification (according to EC 1272/2008):

Aspiration hazard, Category 1 (H304)  
Hazardous to the aquatic environment - acute hazard, Category 1 (H400)  
Hazardous to the aquatic environment - chronic hazard, Category 1 (H410)

#### 2.2 Label elements

##### GHS-Labeling (according to EC 1272/2008):



Danger

##### Hazard statements:

H304 May be fatal if swallowed and enters airways.  
H410 Very toxic to aquatic life with long lasting effects.

##### Precautionary statements:



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### Prevention:

P273 Avoid release to the environment.

### Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P331 Do NOT induce vomiting.

P391 Collect spillage.

### Storage:

P405 Store locked up.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

8042-47-5 White mineral oil (petroleum), viscosity  $\leq 20,5$  mm<sup>2</sup>/s

### 2.3 Other hazards

Other hazards which do not result in classification:

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture within the meaning of Regulation (EC) No. 1907/2006.

### Hazardous components

#### White mineral oil (petroleum), viscosity $\leq 20,5$ mm<sup>2</sup>/s

Concentration [Weight percent]  $\geq 70$  -  $< 90$

CAS-No.: 8042-47-5

CAS name: White mineral oil (petroleum)

EINECS-No.: 232-455-8

Synonyms: White mineral oil (petroleum)

### GHS Classification:



Asp. Tox. 1 H304

### Flumethrin

Concentration [Weight percent]  $\geq 1$  -  $< 2,5$

CAS-No.: 69770-45-2

CAS name: Cyclopropanecarboxylic acid, 3-(2-chloro-2-(4-chlorophenyl)ethenyl)-2,2-dimethyl-, cyano(4-fluoro-3-phenoxyphenyl)methyl ester

EINECS-No.: 274-110-4

Synonyms: alpha-cyano-4-fluoro-3-phenoxybenzyl 3-[2-chloro-2-(4-chlorophenyl)viny]-2,2-dimethylcyclopropanecarboxylate, alpha-cyano-4-fluoro-3-phenoxybenzyl 3-[2-chloro-2-(4-chlorophenyl)viny]-2,2-dimethylcyclopropanecarboxylate (Unstated stereochemistry)



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### GHS Classification:



Acute Tox. 3 H301  
Acute Tox. 3 H331  
Acute Tox. 4 H312  
Aquatic Acute 1 H400  
Aquatic Chronic 1 H410

M-Factor: 100

### contains

#### 2-Octyldodecan-1-ol

Concentration [Weight percent] 5 - 20

CAS-No.: 5333-42-6

CAS name: 1-Dodecanol, 2-octyl-

EINECS-No.: 226-242-9

Synonyms: 2-octyldodecan-1-ol

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

**General advice:** Take off all contaminated clothing immediately.

**If inhaled:** Remove to fresh air. Call a physician immediately.

**In case of skin contact:** After contact with skin, wash immediately with plenty of soap and water. If skin reactions occur, contact a physician.

**In case of eye contact:** In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**If swallowed:** If swallowed, seek medical advice immediately and show this container or label.

### 4.2 Most important acute symptoms/effects

**Symptoms:** No information available.

**Risks:** No information available.

### 4.3 Indication of any immediate medical attention and special treatment needed

No information available.



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### 5. FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable extinguishing media:** High volume water jet

#### 5.2 Special hazards arising from the substance or mixture

**Specific hazards during firefighting:** Fire may cause evolution of: Hydrogen cyanide (hydrocyanic acid) Hydrogen fluoride Hydrogen chloride gas Nitrogen oxides (NOx) Carbon oxides

**Further information:** Prevent fire extinguishing water from contaminating surface water or the ground water system.

#### 5.3 Advice for firefighters

**Special protective equipment for firefighters:** In the event of fire, wear self-contained breathing apparatus.

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### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Use with adequate ventilation.

#### 6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system.

#### 6.3 Methods and materials for containment and cleaning up

**Methods for cleaning up:** Suppress (knock down) gases/vapours/mists with a water spray jet. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Place in closed containers. Label for proper disposal.

#### 6.4 Reference to other sections

**Additional advice:** No special precautions required.

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### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

##### Handling:

Avoid formation of aerosol. Use with local exhaust ventilation. Avoid contact with skin, eyes and clothing.



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No special protective measures against fire required.

### 7.2 Conditions for safe storage, including any incompatibilities

For storage suitable stores with adequate product-reception volume must be used. During handling local official regulations must be observed in order to avert impairment of water by the product.

**Storage class in accordance to TRGS 510:** 10 Combustible liquids not in Storage Class 3

### 7.3 Specific end use(s)

No statements available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
White mineral oil (petroleum), viscosity $\leq 20,5$ mm <sup>2</sup> /s	8042-47-5	AGW (Alveolate fraction)	5 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit: excursion factor (category)	4;(II)			
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
Flumethrin	69770-45-2	Bayer OES	0,02 mg/m <sup>3</sup>	
2,6-Di-tert-butyl-p-cresol	128-37-0	AGW (Vapour and aerosols, inhalable fraction)	10 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit: excursion factor (category)	4;(II)			
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., Sum of vapor and aerosols., When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			



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### 8.2 Exposure controls

#### Personal protective measures:

##### Respiratory protection:

Recommended respiratory protection: full mask with filter ABEK-ST (ABEK-P3)

##### Hand protection:

Hand protection: protective gloves for chemicals made of Baypren, nitrile rubber or PVC wear Breakthrough time not tested; dispose of immediately after contamination. Advice: The gloves should not be reused.

##### Eye protection:

Safety glasses

##### Hygiene measures:

Cleanliness Guidelines (GMP) for manufacturing of drugs must be observed!

##### Other protective measures:

Wear suitable protective equipment.

The personal protective equipment is applicable for the handling of bulk material without packaging and for incidents if an exposure by the active ingredient or hazardous components can be expected.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Form:	liquid
Colour:	yellowish
Odour:	weak
Melting point/range:	No statements available.
Boiling point/boiling range:	No statements available.
Density:	0,86 g/cm <sup>3</sup> at 20 °C
Bulk density:	Not applicable
Vapour pressure:	No statements available.
Viscosity, dynamic:	No statements available.
Viscosity, kinematic:	No statements available.
Flow time:	No statements available.
Surface tension:	No statements available.
Water solubility:	No statements available.
Solubility(ies):	No statements available.
pH:	No statements available.
Corrosive to metal:	No statements available.



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Partition coefficient (n-octanol/water):	Flumethrin log Pow: 6,2
Flash point:	No statements available.
Inflammability (solid, gaseous):	Not applicable
Explosion limits:	No statements available.

### 9.2 Other information

Miscibility with water: immiscible

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No statements available.

#### Reactions with water / air:

No statements available.

#### Ignition temperature:

White mineral oil (petroleum), viscosity  $\leq 20,5 \text{ mm}^2/\text{s}$   
 $\geq 325 \text{ }^\circ\text{C}$

#### Flumethrin

450 °C DIN 51794

#### Burning number:

No statements available.

### 10.2 Chemical stability

No statements available.

#### Thermal decomposition:

No data available

#### Dust explosion characteristic number:

Not applicable

#### Dust explosion class:

Not applicable

#### Impact sensitivity:

No data available

#### Hazardous reactions:

No data available

#### Explosive properties:



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No statements available.

### 10.3 Possibility of hazardous reactions

**deflagration ability:**

No statements available.

**Smoldering combustion:**

No statements available.

### 10.4 Conditions to avoid

No data available

**Minimum ignition energy:**

No data available

**Oxidizing properties:**

No statements available.

### 10.5 Incompatible materials

**Materials to avoid:**

Oxidizing agents

### 10.6 Hazardous decomposition products

Hydrogen cyanide (hydrocyanic acid), Hydrogen fluoride, Hydrogen chloride gas, Nitrogen oxides (NO<sub>x</sub>), Carbon oxides

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## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

**Other information on toxicity:**

**White mineral oil (petroleum), viscosity  $\leq 20,5$  mm<sup>2</sup>/s**

Risk of serious damage to the lungs (by aspiration).

Aspiration of mineral oil dust may cause lipoid pneumonia.

**Acute oral toxicity:**

**Bayticol® pour on 1% - Bulk**

Acute toxicity estimate (ATE) > 2.000 mg/kg

Method: Calculation method

**White mineral oil (petroleum), viscosity  $\leq 20,5$  mm<sup>2</sup>/s**

LD50 Rat: > 5.000 mg/kg

No adverse effect has been observed in acute toxicity tests.

Method: OECD 401

**Flumethrin**

LD50 Rat: 175 mg/kg

Test substance: in corn oil





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### Acute inhalation toxicity:

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Acute toxicity estimate (ATE) > 5 mg/l, 4 h

dust/mist/aerosol

Method: Calculation method

#### White mineral oil (petroleum), viscosity $\leq 20,5 \text{ mm}^2/\text{s}$

LC50 Rat: > 5 mg/l, 4 h

dust/mist/aerosol

The component/mixture is minimally toxic after short term inhalation.

Method: OECD 403

#### Flumethrin

LC50 Rat: 0,572 mg/l, 4 h

dust/mist/aerosol

Method: OECD 403

### Acute dermal toxicity:

#### Bayticol® pour on 1% - Bulk

Acute toxicity estimate (ATE) > 2.000 mg/kg

Method: Calculation method

#### White mineral oil (petroleum), viscosity $\leq 20,5 \text{ mm}^2/\text{s}$

LD50 Rabbit: > 2.000 mg/kg

The component/mixture is minimally toxic after single contact with skin.

Method: OECD 402

#### Flumethrin

LD50 Rat, female: 1.436 mg/kg

### Acute toxicity (other routes of administration):

No statements available.

### Corrosivity:

No statements available.

### Skin irritation:

#### White mineral oil (petroleum), viscosity $\leq 20,5 \text{ mm}^2/\text{s}$

Rabbit

Result: No skin irritation

Method: OECD 404

#### Flumethrin

Rabbit

Result: No skin irritation

### Eye irritation:

#### White mineral oil (petroleum), viscosity $\leq 20,5 \text{ mm}^2/\text{s}$

Rabbit

Result: No eye irritation



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Method: OECD 405

### Flumethrin

Rabbit

Result: No eye irritation

### Sensitisation:

#### White mineral oil (petroleum), viscosity $\leq 20,5 \text{ mm}^2/\text{s}$

Guinea pig

Result: Did not cause sensitisation on laboratory animals.

Method: OECD 406

### Flumethrin

test Type: Skin sensitization Guinea pig

Result: Did not cause sensitisation on laboratory animals.

Method: Magnusson and Kligmann maximization test

### Phototoxicity:

No statements available.

### Subacute, subchronic and prolonged toxicity:

#### White mineral oil (petroleum), viscosity $\leq 20,5 \text{ mm}^2/\text{s}$

NOAEL 1.000 mg/kg

Rabbit, Dermal

Method: OECD Test Guideline 410

### STOT - single exposure:

#### Flumethrin

The substance or mixture is not classified as specific target organ toxicant, single exposure.

### STOT - repeated exposure:

#### Flumethrin

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### Aspiration toxicity:

#### White mineral oil (petroleum), viscosity $\leq 20,5 \text{ mm}^2/\text{s}$

May be fatal if swallowed and enters airways.

### Genotoxicity in vitro:

#### White mineral oil (petroleum), viscosity $\leq 20,5 \text{ mm}^2/\text{s}$

Ames test Salmonella typhimurium

Result: No indication of mutagenic effects.

Method: OECD 471

### Flumethrin

Result: No evidence of a genotoxic effect.

### Genotoxicity in vivo:



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### Flumethrin

Result: No evidence of a genotoxic effect.

### Carcinogenicity:

#### White mineral oil (petroleum), viscosity $\leq 20,5 \text{ mm}^2/\text{s}$

Result: Animal testing did not show any carcinogenic effects.

Method: OECD 453

### Flumethrin

Rat

Result: Animal testing did not show any carcinogenic effects.

### Fertility:

#### White mineral oil (petroleum), viscosity $\leq 20,5 \text{ mm}^2/\text{s}$

Application Route: Oral

RatTest period: 35 d

NOAEL (F1):  $> 4350 \text{ mg/kg}$

Result: Animal studies have produced no evidence of toxic effects on reproduction.

### Flumethrin

RatResult: Animal testing did not show any effects on fertility.

### Developmental toxicity:

#### White mineral oil (petroleum), viscosity $\leq 20,5 \text{ mm}^2/\text{s}$

Application Route: Oral

Rat, female:

Test period: 35 dResult: Showed no teratogenic effect in animal studies.

### Flumethrin

Result: Did not show teratogenic effects in animal experiments.

### Human experience:

No statements available.

### Neurotoxicity:

No statements available.

### Neurological symptoms:

No statements available.

### Pharmaceutic effects:

### Flumethrin

Antiparasitic agent

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### 12. ECOLOGICAL INFORMATION

#### Ecotoxicology Assessment

##### Flumethrin

Acute aquatic toxicity: Very toxic to aquatic life.

Chronic aquatic toxicity: Very toxic to aquatic life with long lasting effects.

#### 12.1 Toxicity

##### Toxicity to fish:

##### White mineral oil (petroleum), viscosity $\leq 20,5 \text{ mm}^2/\text{s}$

Acute Fish toxicity: LC50 > 1.000 mg/l

Test species: Leuciscus idus (Golden orfe) Duration of test: 96 h

Method: OECD 203

##### Flumethrin

Acute Fish toxicity: LC50 0,17 mg/l

Test species: Oncorhynchus mykiss (rainbow trout) Duration of test: 96 h

Method: OECD 203

##### Toxicity to daphnia and other aquatic invertebrates:

##### White mineral oil (petroleum), viscosity $\leq 20,5 \text{ mm}^2/\text{s}$

EC50 > 100 mg/l

Test species: Daphnia pulex (Water flea) Duration of test: 48 h

Method: OECD 202

##### Flumethrin

EC50 0,0027 mg/l

Test species: Daphnia magna (Water flea) Duration of test: 48 h

Method: OECD 202

##### Toxicity to algae:

##### White mineral oil (petroleum), viscosity $\leq 20,5 \text{ mm}^2/\text{s}$

NOEL > 100 mg/l

Test species: Pseudokirchneriella subcapitata (green algae)

Method: OECD 201

##### Flumethrin

IC50 0,59 mg/l

Test species: Desmodesmus subspicatus (green algae) Duration of test: 72 h

Method: OECD 201

##### Toxicity to bacteria:

No statements available.

##### Toxicity to fish (Chronic toxicity):

No statements available.

##### Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):

No statements available.



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### **Toxicity on soil-dwelling organisms:**

No statements available.

### **Toxicity on other terrestrial non-mammal:**

No statements available.

### **12.2 Persistence and degradability**

#### **Biodegradability:**

**White mineral oil (petroleum), viscosity  $\leq 20,5 \text{ mm}^2/\text{s}$**

> 31,3 %, 28 d Partially biodegradable.

Method: OECD 301F

#### **Flumethrin**

0 %, 28 d Not rapidly biodegradable

Method: OECD 301F

#### **Biochemical Oxygen Demand (BOD):**

No statements available.

#### **Chemical Oxygen Demand (COD):**

No statements available.

#### **BSB in proportion to CSB:**

No statements available.

#### **Dissolved organic carbon (DOC):**

No statements available.

#### **Adsorbed organic bound halogens (AOX):**

No statements available.

#### **Theoretical biological oxygen requirement:**

No statements available.

#### **BSB in proportion to ThSB:**

No statements available.

#### **Total organic carbon (TOC):**

No statements available.

#### **Physico-chemical removability:**

No statements available.

#### **Stability in water:**

No statements available.

#### **Important degradation pathways:**

No statements available.

#### **Photodegradation:**

No statements available.



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### M-Factor:

#### Flumethrin

100

### 12.3 Bioaccumulative potential

#### Bioaccumulation:

No statements available.

#### Partition coefficient (n-octanol/water):

#### Flumethrin

log Pow: 6,2

### 12.4 Mobility in soil

#### Environmental distribution:

No statements available.

#### Surface tension:

No statements available.

#### Stability in soil:

No statements available.

### 12.5 Results of PBT and vPvB assessment

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This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

#### General advice:

#### Bayticol® pour on 1% - Bulk

Do not allow to enter surface waters or groundwater.

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## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Dispose of as hazardous waste in compliance with local and national regulations.

Contaminated packaging: Contaminated, empty containers are to be treated in the same way as the contents.

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### 14. TRANSPORT INFORMATION

The hazardous goods classification refers to the transportation of bulk goods. Under certain circumstances, regulation-specific relaxations and exemptions may be applied for the transportation of packaged goods intended for sale. This may lead to a labeling of the goods that differs from the classification listed here.

#### ADR/RID

- 14.1 UN Number : 3082
- 14.2 Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUMETHRIN)
- 14.3 Hazard Identification Number : 90
- 14.4 Packaging group : III
- Dangerous goods labels : 9
- 14.5 Environmentally hazardous : yes

#### GGVS/GGVE

- 14.1 UN Number : 3082
- 14.2 Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
- 14.3 Hazard Identification Number : 90
- Dangerous goods labels : 9
- 14.4 Packaging group : III
- 14.5 Environmentally hazardous : yes

#### ADNR

- 14.1 UN Number : 3082
- 14.2 Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUMETHRIN)
- 14.3 Hazard Identification Number : 90
- 14.4 Packaging group : III
- Dangerous goods labels : 9
- 14.5 Environmentally hazardous : yes

#### IATA

- 14.1 UN Number : 3082
- 14.2 Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUMETHRIN)



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14.3 Class : 9  
14.4 Packaging group : III  
Dangerous goods labels : 9  
14.5 Environmentally : yes  
hazardous

### IMDG

14.1 UN Number : 3082  
14.2 Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(FLUMETHRIN)  
14.3 Class : 9  
14.4 Packaging group : III  
IMDG-Labels : 9  
EmS Number : F-A  
14.5 Marine pollutant : yes

### 14.6 Special precautions for user

For personal protection see section 8.

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

not applicable

Limited quantity regulations applicable in accordance with chapter 3.4 RID/ADR in compliance with threshold value.

Other information : Environmentally hazardous substance  
Keep separated from foodstuffs  
Keep away from cargo susceptible to odour

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## 15. REGULATORY INFORMATION

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

#### National legislation

#### Water contaminating class (Germany):

WGK 2 (water endangering)

VwVwS (German Regulation) supplement 4

#### Major accidents regulations appendix I no.:

E1

#### Guidelines and information sheets issued by the Chemical Industry Employers' Insurance Association:

M 053 /BGI 660 ("Protective measures when handling hazardous substances at work"), DGUV





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Information 213-083

### **15.2 Chemical safety assessment**

No statements available.

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## **16. OTHER INFORMATION**

### **Full text of H-Statements mentioned in chapters 2 and 3**

H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H331	Toxic if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

### **Further information**

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.