according to Regulation (EC) No. 1907/2006



# **BrazeTec h Paste**

Version 2.9 DE SDS Number: 30000000990 Revision Date: 21.07.2018

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

Product identifier : BrazeTec h Paste

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

Use of the Sub-

stance/Mixture

: brazing

1.3 Details of the supplier of the safety data sheet

Company : SAXONIA Technical Materials GmbH

Rodenbacher Chaussee 4

63457 Hanau Germany

E-mail address of person

responsible for the SDS

: sdb@saxonia-tm.de

1.4 Emergency telephone number

Poison Center

Telephone : +49 30 192 40

Hours of operation : 24HRS

<u>Supplier</u> : Emergency CONTACT (24-Hour-Number):

GBK GmbH +49 (0)6132-84463

#### **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

# Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4 H302: Harmful if swallowed.



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Reproductive toxicity, Category 2 H361d: Suspected of damaging the unborn child.

#### 2.2 Label elements

# Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms





Signal word : Warning

Hazard statements : H302 Harmful if swallowed.

H361d Suspected of damaging the unborn child.

Precautionary statements : Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been

read and understood.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection.

Response:

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

attention.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Hazardous components which must be listed on the label:

potassium difluorodihydroxyborate(1-)

#### 2.3 Other hazards

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.

# **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

# **Hazardous components**

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
potassium difluorodihydroxy-	85392-66-1	Acute Tox. 4; H302	<= 90
borate(1-)	286-925-2	Repr. 2; H361d	

according to Regulation (EC) No. 1907/2006



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01-2119980037-35

For explanation of abbreviations see section 16.

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and get medical

attention immediately.

In case of skin contact : If on clothes, remove clothes.

In case of eye contact : Remove contact lenses.

Flush eyes with water as a precaution.

Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

# 4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Ingestion may provoke the following symptoms:

Stomach/intestinal disorders

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

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Unsuitable extinguishing

media

High volume water jet

# 5.2 Special hazards arising from the substance or mixture

Hazardous combustion prod- : Fluorine compounds

ucts Boron oxides

## 5.3 Advice for firefighters

Special protective equipment:

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

according to Regulation (EC) No. 1907/2006



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Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

### **SECTION 6: Accidental release measures**

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

Personal precautions : Use personal protective equipment.

#### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

### 6.3 Methods and material 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).

#### 6.4 Reference to other sections

## **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours/dust.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Advice on protection against

fire and explosion

Normal measures for preventive fire protection.

Hygiene measures : General industrial hygiene practice. Wash hands before

breaks and at the end of workday.

## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards. To maintain product

quality, do not store in heat or direct sunlight.

Advice on common storage : No materials to be especially mentioned.

Storage class (TRGS 510) : 12, Non Combustible Liquids

Further information on stor-

age stability

Keep in a dry place. No decomposition if stored and applied

as directed.

according to Regulation (EC) No. 1907/2006



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# 7.3 Specific end use(s)

# **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

# Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
potassium difluorodi- hydroxyborate(1-)	Workers	Inhalation	Long-term systemic effects	10,95 mg/m3
	Workers	Inhalation	Long-term local ef- fects	18,4 mg/m3
	Workers	Inhalation	Acute local effects	18,4 mg/m3
	Workers	Skin contact	Long-term systemic effects	500,1 mg/kg
	Consumers	Inhalation	Long-term systemic effects	5,11 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	18,4 mg/m3
	Consumers	Inhalation	Acute local effects	18,4 mg/m3
	Consumers	Skin contact	Long-term systemic effects	250,39 mg/kg
	Consumers	Ingestion	Long-term systemic effects	1,46 mg/kg
	Consumers	Ingestion	Acute systemic effects	1,46 mg/kg

# Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
potassium difluorodihydroxy-	Fresh water	2,02 mg/l
borate(1-)		_
	Marine water	2,02 mg/l
	Sewage treatment plant	10 mg/l
	Soil	5,4 mg/kg dry
		weight (d.w.)

### 8.2 Exposure controls

# **Engineering measures**

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

### Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection

Material : Nitrile rubber
Break through time : > 240 min
Glove thickness : 0,38 mm

Skin and body protection : Footwear protecting against chemicals

according to Regulation (EC) No. 1907/2006



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# **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Appearance : dispersion

Colour : white

Odour : odourless

pH : 5,4

Concentration: 10 g/l

Melting point/range : not determined

Boiling point/boiling range : not determined

Flash point : Method: closed cup

does not flash

Density : 1,6 g/cm3

Solubility(ies)

Water solubility : 500 g/l (20 - 23 °C)

9.2 Other information

Flammability (liquids) : The product is not flammable.

# **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

Stable

No dangerous reaction known under conditions of normal use.

# 10.2 Chemical stability

No decomposition if stored and applied as directed.

## 10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.

10.4 Conditions to avoid

Conditions to avoid : None known.

Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Materials to avoid : Strong acids

according to Regulation (EC) No. 1907/2006



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None known.

### 10.6 Hazardous decomposition products

Stable under normal conditions.

# **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

### **Acute toxicity**

**Product:** 

Acute oral toxicity : Acute toxicity estimate: 760 mg/kg

Method: Calculation method

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

Components:

potassium difluorodihydroxyborate(1-):

Acute oral toxicity : LD50 (Rat, female): 608 mg/kg

Method: OECD Test Guideline 401

GLP: no

Acute inhalation toxicity : LC50 (Rat, male and female): > 2,04 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

GLP: yes

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: Based on read across from structural related sub-

stance

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2.000 mg/kg

GLP: yes

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: Based on read across from structural related sub-

stance

## Skin corrosion/irritation

## **Product:**

Result: No skin irritation

### **Components:**

# potassium difluorodihydroxyborate(1-):

according to Regulation (EC) No. 1907/2006



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Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

### Serious eye damage/eye irritation

**Product:** 

Result: No eye irritation

#### **Components:**

## potassium difluorodihydroxyborate(1-):

Species: Rabbit

Method: OECD Test Guideline 405

Result: No eye irritation

### Respiratory or skin sensitisation

#### **Product:**

Remarks: No data available

## **Components:**

## potassium difluorodihydroxyborate(1-):

Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation.

Remarks: Based on read across from structural related substance

### Germ cell mutagenicity

#### **Product:**

Genotoxicity in vitro : Remarks: No data available

## **Components:**

# potassium difluorodihydroxyborate(1-):

Genotoxicity in vitro : Test Type: Ames test

Test system: Bacteria Result: negative

Remarks: Based on read across from structural related sub-

stance

Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells Method: OECD Test Guideline 476

Result: negative

Remarks: Based on read across from structural related sub-

stance

according to Regulation (EC) No. 1907/2006



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Genotoxicity in vivo : Test Type: Micronucleus test

Species: Mouse

Application Route: Oral

Dose: 0, 225, 450, 900, 1800, 3500 Method: OECD Test Guideline 474

Result: negative

Remarks: Based on read across from structural related sub-

stance

### Carcinogenicity

#### **Product:**

Remarks: No data available

## **Components:**

### potassium difluorodihydroxyborate(1-):

Species: Mouse, (male and female)

Application Route: Oral Exposure time: 103 weeks

Dose: 0, 446, 1150 mg/kg body weight Method: OECD Test Guideline 451

Result: negative GLP: yes

Remarks: Based on read across from structural related substance

# Reproductive toxicity

### **Product:**

Effects on fertility : Remarks: No data available

# **Components:**

## potassium difluorodihydroxyborate(1-):

Effects on fertility : Species: Rat

Application Route: Oral

Dose: 0, 50, 155, 518 milligram per kilogram

General Toxicity - Parent: NOAEL: 155 mg/kg body weight General Toxicity F1: NOAEL: 155 mg/kg body weight Remarks: Based on read across from structural related sub-

stance

Species: Rat

Application Route: Oral

Dose: 0, 34, 100, 336 milligram per kilogram

General Toxicity - Parent: NOAEL: 100 mg/kg body weight General Toxicity F1: NOAEL: 100 mg/kg body weight Remarks: Based on read across from structural related sub-

stance

according to Regulation (EC) No. 1907/2006



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Effects on foetal develop-

ment

Species: Rat

**Application Route: Oral** 

Dose: 19, 36, 55, 76, 143 milligram per kilogram

General Toxicity Maternal: LOAEL: 143 mg/kg body weight Developmental Toxicity: LOAEL: 76 mg/kg body weight

Method: OECD Test Guideline 414

Remarks: Based on read across from structural related sub-

stance

Species: Rat

Application Route: Oral

Dose: 19, 36, 55, 76, 143 milligram per kilogram

General Toxicity Maternal: NOAEL: 76 mg/kg body weight Developmental Toxicity: LOAEL: 55 mg/kg body weight

Method: OECD Test Guideline 414

Remarks: Based on read across from structural related sub-

stance

Species: Rabbit Application Route: Oral

Dose: 0; 62,5; 125; 250 milligram per kilogram

General Toxicity Maternal: LOAEL: 250 mg/kg body weight Developmental Toxicity: LOAEL: 250 mg/kg body weight

Method: OECD Test Guideline 414

Remarks: Based on read across from structural related sub-

stance

Species: Rabbit Application Route: Oral

Dose: 0; 62,5; 125; 250 milligram per kilogram

General Toxicity Maternal: NOAEL: 125 mg/kg body weight Developmental Toxicity: NOAEL: 125 mg/kg body weight

Method: OECD Test Guideline 414

Remarks: Based on read across from structural related sub-

stance

Reproductive toxicity - As-

sessment

Some evidence of adverse effects on development, based on

animal experiments.

STOT - single exposure

**Product:** 

Remarks: No data available

STOT - repeated exposure

**Product:** 

Remarks: No data available

according to Regulation (EC) No. 1907/2006



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# Repeated dose toxicity

### **Components:**

### potassium difluorodihydroxyborate(1-):

Species: Rat

NOAEL: 127,8 mg/kg Application Route: Oral Exposure time: 2 yr Number of exposures: 1/d

#### **Further information**

**Product:** 

Remarks: No data available

# **SECTION 12: Ecological information**

## 12.1 Toxicity

## **Components:**

## potassium difluorodihydroxyborate(1-):

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 750 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

GLP: ves

Remarks: Fresh water

NOEC (Danio rerio (zebra fish)): 560 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

GLP: yes

Remarks: Fresh water

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): 133 mg/l

Exposure time: 48 h Remarks: Fresh water

Based on read across from structural related substance

Toxicity to microorganisms : EC50 (Pseudomonas putida): 240 mg/l

Exposure time: 17 h

Method: OECD Test Guideline 201

Remarks: Fresh water

NOEC (Pseudomonas putida): 180 mg/l

Exposure time: 17 h

Method: OECD Test Guideline 201

Remarks: Fresh water

Toxicity to fish (Chronic tox-

icity)

NOEC: 5,6 mg/l Exposure time: 34 d

according to Regulation (EC) No. 1907/2006



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Species: Danio rerio (zebra fish) Method: OECD Test Guideline 210

Remarks: Fresh water

Based on read across from structural related substance

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

Exposure time: 72 h Remarks: Fresh water

NOEC: 25 mg/l

Based on read across from structural related substance

Toxicity to soil dwelling or-

ganisms

LC50: 651,4 mg/kg Exposure time: 7 d

Species: Eisenia fetida (earthworms) Remarks: unit expressed as mg metal/kg

Based on read across from structural related substance

LC50: 447,6 mg/kg Exposure time: 14 d

Species: Eisenia fetida (earthworms) Remarks: unit expressed as mg metal/kg

Based on read across from structural related substance

Plant toxicity : Exposure time: 85 d

Remarks: Based on read across from structural related sub-

stance

Sediment toxicity : NOEC: 20,1 mg/l

Remarks: unit expressed as mg metal/kg

Fresh water

Based on read across from structural related substance

# 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

## **Components:**

## potassium difluorodihydroxyborate(1-):

Bioaccumulation : Species: Fish

Bioconcentration factor (BCF): < 0,1

Remarks: Fresh water

Based on read across from structural related substance

Bioaccumulation is unlikely.

Bioconcentration factor (BCF): 5 - 123 Remarks: terrestrial environment

Based on read across from structural related substance

#### 12.4 Mobility in soil

No data available

according to Regulation (EC) No. 1907/2006



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#### 12.5 Results of PBT and vPvB assessment

**Product:** 

: This substance/mixture contains no components considered Assessment

> 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

**Product:** 

Additional ecological infor- : No data available

mation

## **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

Product Dispose of in accordance with the European Directives on

waste and hazardous waste.

According to the European Waste Catalogue, Waste Codes

are not product specific, but application specific.

Waste codes should be assigned by the user, preferably in

discussion with the waste disposal authorities.

Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Send to a licensed waste management company.

Dispose of as hazardous waste in compliance with local and

national regulations.

Contaminated packaging Empty remaining contents.

> Dispose of as unused product. Do not re-use empty containers.

### **SECTION 14: Transport information**

### 14.1 UN number

Not regulated as a dangerous good

### 14.2 UN proper shipping name

Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

## 14.4 Packing group

Not regulated as a dangerous good

according to Regulation (EC) No. 1907/2006



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#### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

# **SECTION 15: Regulatory information**

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

REACH - Restrictions on the manufacture, placing on

the market and use of certain dangerous substances,

preparations and articles (Annex XVII)

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

REACH - List of substances subject to authorisation

(Annex XIV)

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Regulation (EC) No 850/2004 on persistent organic pollutants

Regulation (EC) No 649/2012 of the European Parlia-

ment and the Council concerning the export and import

of dangerous chemicals

Not applicable

Not applicable

Not applicable

Not applicable

Not applicable

Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

Water contaminating class

(Germany)

WGK 1 slightly water endangering

Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) Total dust:

Not applicable

Inorganic substances in powdered form:

portion Class 3: 80 %

Inorganic substances in vapour or gaseous form:

Not applicable Organic Substances:

Not applicable

Carcinogenic substances:

Not applicable Mutagenic: Not applicable

according to Regulation (EC) No. 1907/2006



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Toxic to reproduction:

Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial

emissions (integrated pollution prevention and control)

Not applicable

## Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

### The components of this product are reported in the following inventories:

CH INV : The formulation contains substances listed on the Swiss In-

ventory, Not in compliance with the inventory

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

AICS : On the inventory, or in compliance with the inventory

NZIoC : Not in compliance with the inventory

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : Not in compliance with the inventory

TSCA : On TSCA Inventory

# 15.2 Chemical safety assessment

#### **SECTION 16: Other information**

#### **Full text of H-Statements**

H302 : Harmful if swallowed.

H361d : Suspected of damaging the unborn child.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Repr. : Reproductive toxicity

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society

according to Regulation (EC) No. 1907/2006



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for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association: IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations: vPvB - Very Persistent and Very Bioaccumulative

#### **Further information**

#### Classification of the mixture:

Classification procedure:

Acute Tox. 4 H302 Calculation method Repr. 2 H361d Calculation method

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.

DE / EN