

SAFETY DATA SHEET

according to Regulation (EC) Nr. 1907/2006
taking into account the Annex to Regulation (EU) Nr. 2015/830

GASPRUF-Paste

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Revision Date 2020/04/14 (*= revision)

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

1.1. Product identifier

Trade name	Gaspruf-Paste
Material number	1-1000

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

Use	Leak detection after solution in water 1:400
Uses advised against	-

*1.3. Details of the supplier of the safety data sheet

Company	Otto Fahsig GmbH Stadtweg 10 D-83404 Ainring Telefon: +49 (0) 8654/8027 Telefax: +49 (0) 8654/8234 E-Mail: verkauf@fahsig.de
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*Current SDS: Current SDS can be downloaded using the internet link below:
www.gaspruf.de/SDS_select.htm

1.4. Emergency telephone number +49 (0) 8654 8027

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No 1272/2008)

Acute toxicity Category 4 (Oral):	Harmful if swallowed
Skin irritation Category 2:	Causes skin irritation
Serious eye damage Category 1:	Causes serious eye damage
Chronic aquatic toxicity Category 3:	Harmful to aquatic life with long lasting effects

2.2. Label elements

Labelling (Regulation (EC) No 1272/2008)

- Hazard pictograms



- Signal word: **Danger**

- Hazard statements:

H302 Harmful if swallowed
H315 Causes skin irritation
H318 Causes serious eye damage
H412 Harmful to aquatic life with long lasting effects

- Precautionary statements:

P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor.

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

2.3. Other hazards

None known

Section 3: Composition/information on ingredients

3.1 Substances

This product is a mixture in the meaning of regulation (EC) 1907/2006

3.2. Mixtures

Components to be named in accordance with regulation (EC) 1907/2006 as well as other hazardous ingredients and contained substances with work place limit values.

Composition:

CAS-No. 68411-30-3 EC-No. 270-115-0 REACH No. 01-2119489428-22xxxx	Substance name (REACH/CLP): Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts Classification (Regulation (EC) No 1272/2008): H302, H315, H318, H412	65,00%
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For the full text of the H-Statements mentioned in this Section, see Section 16

Section 4: First aid measures

4.1. Description of first aid measures

General advice:

If you feel unwell, seek medical advice (show the label where possible). Take off all contaminated clothing immediately.

If inhaled:

Remove from exposure, lie down. If breathing is irregular or stopped, administer artificial respiration. Monitor breathing, give oxygen if necessary. Consult a physician.

In case of skin contact:

Wash off with plenty of water.

In case of eye contact:

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed:

Consult a physician. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

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

No information available

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

No information available

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Section 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water spray, Dry powder, Foam, Carbon dioxide (CO₂)

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting: Dangerous gases or fumes may occur in case of fire.

5.3. Advice for firefighters

Special protective equipment for firefighters: Wear self contained breathing apparatus for fire fighting if necessary.

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

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

6.2. Environmental precautions

Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.

6.3. Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust)

6.4. Reference to other sections

Information regarding Safe handling, see chapter 7.
For personal protection see section 8.
For disposal considerations see section 13.

Section 7: Handling and storage

7.1. Precautions for safe handling

Wear personal protective equipment.

Advice on protection against fire and explosion:
No special protective measures against fire required.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers:
No special storage conditions required.

Further information on storage conditions:
Protect from frost, heat and sunlight

Storage class (TRGS 510):
11: Combustible Solids

Other data:
The product is chemically stable.

7.3. Specific end uses

This information is not available

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*Section 8: Exposure controls/personal protection

8.1. Control parameters

Components with workplace control parameters:

National occupational exposure limits:

No data available

European occupational exposure limits:

No data available

Derived no effect level (DNEL)

Substance name: Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts			
End Use	Exposure routes	Value	Note
Workers	dermal, Acute/short-term exposure-systemic effects		Not relevant/not applicable
	Inhalation, Acute/short-term exposure-systemic effects		Not relevant/not applicable
	dermal, Acute/short-term exposure-local effects		Not relevant/not applicable
	Inhalation, Acute/short-term exposure-local effects		Not relevant/not applicable
	dermal, long-term exposure-systemic effects	85 mg/kg	Based on body weight and day
	Inhalation, long-term exposure-systemic effects	6 mg/m ³	
	dermal, long-term exposure-local effects		Not relevant/not applicable
	Inhalation, long-term exposure-local effects		Not relevant/not applicable
Consumers	dermal, Acute/short-term exposure-systemic effects		Not relevant/not applicable
	Inhalation, Acute/short-term exposure-systemic effects		Not relevant/not applicable
	oral, Acute/short-term exposure-systemic effects		Not relevant/not applicable
	dermal, Acute/short-term exposure-local effects		Not relevant/not applicable
	Inhalation, Acute/short-term exposure-local effects		Not relevant/not applicable
	dermal, long-term exposure-systemic effects	42,5 mg/kg	Based on body weight and day
	Inhalation, long-term exposure-systemic effects	1,5 mg/m ³	
	oral, long-term exposure-systemic effects	0,425 mg/kg	Based on body weight and day
dermal, long-term exposure-local effects		Not relevant/not applicable	
Inhalation, long-term exposure-local effects		Not relevant/not applicable	

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Predicted no effect concentration (PNEC)

Substance name: Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts		
Environmental Compartment	Value	Note
Fresh water	0,268 mg/l	
Marine water	0,0268 mg/l	
Intermittent release	0,0167 mg/l	
Treatment plant	3,43 mg/l	
Fresh water sediment	8,1 mg/kg	Based on dry weight
*Marine sediment	6,8 mg/kg	Based on dry weight
Soil	35 mg/kg	Based on dry weight
food		Not relevant/not applicable

8.2. Exposure controls

Personal protective equipment:

Respiratory protection:

No personal respiratory protective equipment normally required. In inadequately ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where aerosols are in use, or smoke and mist occur, use self-contained breathing apparatus or breathing apparatus with a combined filter (e. g. A-P2 or ABEK-P2), in compliance with EN 141.

Hand protection:

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature).

gloves suitable for permanent contact:

Material: Butyl-rubber
Break through time: ≥ 480 min
Layer thickness: $\geq 0,7$ mm

gloves suitable for splash protection:

Material: Nitrile rubber/nitrile latex
Break through time: ≥ 30 min
Layer thickness: $\geq 0,4$ mm

Eye protection:

Tightly fitting safety goggles

Skin an body protection:

Wear suitable protective equipment

Hygiene measures:

Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs.

Protective measures:

Avoid contact with eyes. Wear suitable gloves an eye/face protection.

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ENVIRONMENTAL EXPOSURE CONTROLS

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

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	solid; 20°C; 1.013 hPa
Form:	pasty
Colour:	light yellow
Odour:	mild
Odour Threshold:	no data available
pH:	8 - 10; 20 g/l; 20°C
Melting point/range:	no data available
Flash point:	not applicable
Evaporation rate:	not relevant/not applicable Justification: solid
Flammability (solid/gas):	not auto-flammable
Lower explosion limit:	not applicable Justification: solid
Upper explosion limit:	not applicable Justification: solid
Vapour pressure:	<0,1 hPa; 20°C
Relative vapour density:	no data available
Density:	ca. 1,06 g/cm ³ ; 20°C
Relativ density:	No data available
Water solubility:	completely miscible
Partition coefficient: n-octanol/water	not applicable (mixture)
Ignition temperature:	not applicable
Auto-ignition temperature:	not auto-flammable
Viscosity, dynamic:	Not applicable Justification: solid
Explosive properties:	not expected based on structure and functional groups
Oxidizing properties:	not expected based on structure and functional groups

9.2. Other data

None known

Section 10: Stability and reactivity

10.1. Reactivity

No decomposition if stored and applied as directed.

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

None known

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10.4. Conditions to avoid

Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation

10.5 Incompatible materials to avoid

Strong acids and oxidizing agents

10.6. Hazardous decompositions products

Hazardous decompositions products: No decomposition if stored and applied as directed.

Thermal decompositions: Stable under normal conditions. Hazardous decomposition products formed under fire conditions.

Section 11: Toxicological information

11.1. Information on toxicological effects

-Acute toxicity

Acute oral toxicity:	Acute toxicity estimate: 769,23 mg/kg; Calculation method Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: LD50 Rat: 1,080 mg/kg; OECD Test Guideline 401 Target Organs: Gastrointestinal tract Symptoms: Drowsiness, Diarrhoea, Breathing difficulties Harmful if swallowed.
Acute inhalation toxicity:	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: The study is not necessary. Justification: Negligible or unlikely exposure pathways
Acute dermal toxicity:	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: LD50 rat: > 2,000 mg/kg; OECD Test Guideline 402 Symptoms: Local effects, Crusting (literature value) Based on available data, the classification criteria are not met.

-Skin corrosion/irritation

Skin irritation	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: Rabbit: irritating; OECD Test Guideline 404 (literature value) Causes skin irritation.
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-Serious eye damage/eye irritation

Eye irritation	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: Rabbit: irreversible effects on the eye; OECD Test Guideline 405 (literature value) Causes serious eye damage.
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-Respiratory or skin sensitisation

Sensitisation	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: Maximisation Test Guinea pig: not sensitising; OECD Test Guideline 406 Based on available data, the classification criteria are not met.
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-Germ cell mutagenicity

Genotoxicity in vitro	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
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In vitro tests did not show mutagenic effects
(literature value)

Genotoxicity in vivo Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
In vivo tests did not show mutagenic effects
(literature value)

Remarks Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
Based on available data, the classification criteria are not met.

-Carcinogenicity

Carcinogenicity Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
This information is not available

-Reproductive toxicity

Reproductive toxicity Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
Animal testing did not show any effects on fertility.
(literature value)
Category approach

RemarksReproductive toxicity Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
Based on available data, the classification criteria are not met.

Teratogenicity Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
Animal testing did not show any effects on foetal development
(literature value)

Remarks-Teratogenicity Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
Based on available data, the classification criteria are not met.

-STOT - single exposure

Remarks Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
The substance or mixture is not classified as specific target organ toxicant, single exposure.

-STOT - repeated exposure

Remarks Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
Rat; Oral; 28-day
NOAEL: 125 mg/kg (based on body weight and day)
LOAEL: 250 mg/kg (based on body weight and day)
Target Organs: Blood, Liver, Heart, Thymus
Symptoms: reduced body weight gain, Diarrhoea
(literature value)

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
Rat; feeding study; 6 months
NOAEL: 40 mg/kg (based on body weight and day)
LOAEL: 115 mg/kg (based on body weight and day)
Target Organs: Blood, Kidney, caecum
Symptoms: reduced body weight gain, Diarrhoea
(literature value)

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Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
Rat; drinking water; 9 months
NOAEL: 85 mg/kg (based on body weight and day)
LOAEL: 145 mg/kg (based on body weight and day)
Target Organs: Blood
Symptoms: reduced body weight gain

-Aspiration hazard

Aspiration toxicity Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
not applicable

Toxicological information Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
Toxicokinetics
The substance is predicted to be bio available via the oral route.
The substance is metabolized and excreted.
The substance is poorly absorbed via skin.

***Section 12: Ecological information**

12.1. Toxicity

Toxicity to fish: Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
LC50 (96 h) *Lepomis macrochirus* (Bluegill sunfish): > 1 - 10 mg/l; static test; US EPA 1975
(literature value)

***Toxicity to fish -
Chronic toxicity** Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
NOEC (196 d) *Pimephales promelas* (fathead minnow): >0,1-1 mg/l; reproduction rate;
model ecosystem; (literature value)

**Toxicity to daphnia
and other aquatic
invertebrates** Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
EC50 (48 h) *Daphnia magna* (Water flea): > 1 - 10 mg/l; static test; OECD Test
Guideline 202; (literature value)

***Toxicity to daphnia
and other aquatic
invertebrates
-Chronic toxicity** Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
NOEC (21 d) *Daphnia magna* (Water flea): > 1 - 10 mg/l; reproduction rate;
flow-through test; OECD Test Guideline 211; (literature value)

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
NOEC (32 d) *Elimia*: >1 – 10 mg/l; mortality; model ecosystem; (literature value)

***Toxicity to aquatic plants** Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
NOEC (28 d) *Elodea canadensis*: > = 4 mg/l; Growth rate; model ecosystem; (literature value)

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
EC50 (72 h) *Pseudokirchneriella subcapitata* (green algae): >10 – 100 mg/l; cell number
(literature value)

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
EC50 (7d) *Lemna minor* (duckweed): >1 – 10 mg/l; flow-through test; OECD Test
Guideline 221 (literature value)

***Toxicity to bacteria** Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
The substance is not to be considered to be inhibitory to bacteria.

**Toxicity to soil dwelling
organisms** Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
EC10 (28 d) *Aporroctodea caliginosa*: 71,7 mg/kg; growth; (literature value)

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
EC10 *Folsomia* sp.: 107,6 mg/kg; reproduction rate; (literature value)

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Toxicity to terrestrial flora Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
growth; NOEC: 100 mg/kg; Sorghum bicolor (sorghum); OECD Test Guideline 208
(literature value)

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
growth; EC10: 86 mg/kg; Brassica rapa; OECD Test Guideline 208
(literature value)

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
growth; NOEC: 52 mg/kg; Nigella arvensis; OECD Test Guideline 208
(literature value)

Toxicity for other terrestrial non-mammalian fauna Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
No data available

12.2. Persistence and degradability

Biodegradability Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301 B

12.3. Bioaccumulative potential

***Bioaccumulation** Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
Pimephales promelas (fathead minnow); 192 h; Bioconcentration factor (BCF): 2 – 1,000;
OECD Test Guideline 305 E (literature value)
Does not significantly accumulate in organisms.

12.4. Mobility in soil

Mobility Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
Adsorption/Soil/Sewage sludge
Slightly mobile in soils

12.5. Results of PBT and vPvB assessment

***Results of PBT assessment** Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
This substance is not considered to be persistent, bioaccumulating and toxic (PBT)
This substance is not considered to be very persistent and very bioaccumulating (vPvB)

12.6. Other adverse effects

General advice Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
Harmful to aquatic life with long lasting effects.

Section 13: Disposal considerations

13.1. Waste treatment methods

Product: Can be incinerated, when in compliance with local regulations.

waste code of the European Union: EWC

The waste code must be determined in agreement with the regional waste disposal authority or company. A waste code in accordance with the European Waste Catalogue (EWC) may not be assigned to this product since it admits of a classification only when the consumer uses it for some purpose.

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Section 14: Transport information

14.1 UN number

ADR	not dangerous goods
RID	not dangerous goods
ADN	not dangerous goods
IMDG	not dangerous goods
IATA/ICAO	not dangerous goods

14.2 Proper shipping name

ADR	not dangerous goods
RID	not dangerous goods
ADN	not dangerous goods
IMDG	not dangerous goods
IATA/ICAO	not dangerous goods

14.3 Transport hazard class

ADR	not dangerous goods
RID	not dangerous goods
ADN	not dangerous goods
IMDG	not dangerous goods
IATA/ICAO	not dangerous goods

14.4 Packing group

ADR	not dangerous goods
RID	not dangerous goods
ADN	not dangerous goods
IMDG	not dangerous goods
IATA/ICAO	not dangerous goods

14.5 Environmental hazards

ADR	not dangerous goods
RID	not dangerous goods
ADN	not dangerous goods
IMDG	not dangerous goods
IATA/ICAO	not dangerous goods

14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulation.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code (International Bulk Chemicals Code)

Ship type:	2
Pollution category	Y
Remarks:	MARPOL NAME: Alkyl (C11-C17) benzene sulphonic acid

Section 15: Regulatory information

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

Occupational restrictions Employment restrictions for children and young workers in accordance with Directive 94/33/EC and the respective national provisions are to be observed.

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NATIONAL/OTHER REGULATIONS

Legislation on the control of major-accident hazards involving dangerous substances Sevesol III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
list entry in the directive: Not applicable

Other regulations The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

NOTIFICATION STATUS

US. Toxic Substances Control Act	TSCA	listed (product or constituents are listed)
Switzerland. Consolidated Inventory	CH INV	listed (product or constituents are listed)
Canada. Canadian Environmental Protection Act (CEPA) Domestic Substances List (DSL)	DSL	listed (product or constituents are listed)
Australia. Industrial Chemical (Notification and Assessment) Act	AICS	listed (product or constituents are listed)
Japan. Kashin-Hou Law List	ENCS (JP)	listed (product or constituents are listed)
Japan. Industrial Safety & Health Law (ISHL) List	ISHL (JP)	listed (product or constituents are listed)
Korea. Existing Chemicals Inventory (KECI)	KECI (KR)	listed (product or constituents are listed)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	PICCS (PH)	listed (product or constituents are listed)
China. Inventory of Existing Chemical Substances	INV (CN)	listed (product or constituents are listed)

Please note: the names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in chapter 3.

15.2. Chemical Safety Assessment

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

A Chemical Safety Assessment has been carried out for this substance.

Section 16: Other information

Observe national and local legal regulations.

This information is based on our present knowledge. However, this information does not constitute an assurance of product characteristics and does not constitute a contractual legal relationship.

Full text of H-Statements (Section 3)

H302 Harmful if swallowed

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- H315 Causes skin irritation
- H318 Causes serious eye damage
- H412 Harmful to aquatic life with long-lasting effects

Full text of other abbreviations

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
ANSI	American National Standards Institute
ASTM	American Society of Testing and Materials
BCF	Bioconcentration factor
CLP	Regulation of Classification, Labeling and Packaging of Substances and Mixtures
DIN	Deutsches Institut für Normung
DNEL	Derived No-Effect Level
DSL	Domestic Substances List
EC	Effect concentration...%
ENCS	Existing Notified Chemical Substances (Japan)
EWC	European Waste Catalogue
CAS	Chemical Abstracts Service
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISHL	Industrial Safety and Health Law (Japan)
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
KECI	Korea Existing Chemicals Inventory
LC50	Lethal concentration to 50%
LD50	Lethal Dose to 50%
MARPOL	International Convention for the Prevention of Pollution from Ships
NDSL	Non-Domestic Substances List
NOAEL	no observable adverse effect level
NzIoC	New Zealand Inventory of Chemicals
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative, Toxic
PICCS	Philippine Inventory of Chemicals and Chemical Substances
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
TG	Test Guideline
TRGS	Technische Regeln für Gefahrenstoffe
TSCA	Toxic Substances Control Act
vPvB	Very Persistent and very Bioaccumulative
WGK	Wassergefährdungsklasse

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SAFETY DATA SHEET

according to Regulation (EC) Nr. 1907/2006
taking into account the Annex to Regulation (EU) Nr. 2015/830

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