

Safety Data Sheet

Regular Mud Acid H949(Concentration 9%HCl-1%HF)

1. Identification of the substance/preparation and of the Company/undertaking

1.1 Product identifier

Product name Regular Mud Acid H949(Concentration 9%HCl-1%HF)
Product code H949

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

Recommended use Used as an acidizing additive in oilfield applications
Uses advised against Consumer use

1.3 Details of the supplier of the safety data sheet

Supplier identification
Schlumberger Oilfield UK PLC
Victory House, Churchill Court
Manor Royal, Crawley
West Sussex RH10 9LU
+ 47 51577424
SDS@slb.com

1.4 Emergency Telephone Number

Emergency telephone - (24 Hour) Australia +61 2801 44558, Asia Pacific +65 3158 1074, China +86 10 5100 3039, Europe +44 (0) 1235 239 670, Middle East and Africa +44 (0) 1235 239 671, New Zealand +64 9929 1483, USA 001 281 595 3518

2. Hazards identification

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Health hazards

Acute oral toxicity	Category 3
Acute dermal toxicity	Category 2
Acute inhalation toxicity - gas	Category 4
Acute inhalation toxicity - vapor	Category 4
Skin corrosion/irritation	Category 1 Subcategory 1B
Serious eye damage/eye irritation	Category 1

Environmental hazards Not classified

Physical Hazards

Substances/mixtures corrosive to metal	Category 1
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2.2 Label Elements



Signal word

DANGER

Hazard statements

H301 - Toxic if swallowed

H312 - Harmful in contact with skin

H314 - Causes severe skin burns and eye damage

H332 - Harmful if inhaled

H290 - May be corrosive to metals

H290 - May be corrosive to metals

Precautionary Statements - EU (§28, 1272/2008)

P260 - Do not breathe dust/fume/gas/mist/vapours/spray

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower

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

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

Supplementary precautionary statements

P262 - Do not get in eyes, on skin, or on clothing

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P271 - Use only outdoors or in a well-ventilated area

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P302 + P350 - IF ON SKIN: Gently wash with plenty of soap and water

P314 - Get medical advice/attention if you feel unwell

P330 - Rinse mouth

P361 - Remove/Take off immediately all contaminated clothing

P390 - Absorb spillage to prevent material damage

P406 - Store in corrosive resistant aluminium container with a resistant liner

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Indication of danger

C - Corrosive

T - Toxic

Xn - Harmful

R-code(s)

R20, R21, R25, R35,

Contains

Hydrochloric acid

Hydrofluoric acid

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

2.3 Other data

Not classified as PBT/vPvB by current EU criteria

3. Composition/information on ingredients

3.1 Substances

Not Applicable

3.2 Mixtures

Component	EC-No.	CAS-No	Weight % - range	Classification (67/548)	Classification (Reg. 1272/2008)	REACH registration number
Hydrochloric acid	231-595-7	7647-01-0	<12	C;R34-37	Skin Corr. 1B (H314) STOT SE 3 (H335) Met. Corr.1 (H290)	01-2119484862-27-x xxx
Hydrofluoric acid	231-634-8	7664-39-3	<3	T ; R26/27/28 C; R34	Acute Tox. 2 (H300) Acute Tox. 1 (H310) Acute Tox. 2 (H330) Skin Corr. 1B (H314)	01-2119458860-33-x xxx

Comments

The product contains other ingredients which do not contribute to the overall classification.

4. First aid measures

4.1 Description of first-aid measures

Inhalation

Seek medical attention at once. Move the exposed person to fresh air at once. Keep at rest. If breathing is difficult, (trained personnel should) give oxygen. Contains Hydrofluoric acid (HF) See notes below.

Ingestion

If swallowed, call a poison control center or doctor immediately. Do NOT induce vomiting. Risk of product entering the lungs on vomiting after ingestion. If person is conscious, give calcium gluconate or antacid tablets containing calcium compounds. Give 2 glasses of milk. Seek medical attention at once. Contains Hydrofluoric acid (HF) See notes below.

Skin contact	Get immediate medical attention. Skin contact is seriously harmful. Immediately remove contaminated clothing and shoes. Rush without delay to the nearest hose or shower where the skin should be washed off with large amounts of water. The individual should remain under the water spray until all traces of contamination have been removed. Apply 0.13% iced Zephiran (Trademark) or 2.5% calcium gluconate gel. Calcium gluconate gel can be massaged into the skin while flushing with water. PVC, nitrile or neoprene gloves must be worn while touching the victim. Apply calcium gluconate gel every 15 minutes and massage continuously. Contains Hydrofluoric acid (HF) See notes below.
Eye contact	Get immediate medical attention. Remove any contact lenses if present, then flush eyes with plenty of water for at least 5 minutes and then irrigate each eye with 1% calcium gluconate solution using acid resisant gloves and remove any contact lenses. Continue with irrigation of solution and flushing with water. Contains Hydrofluoric acid (HF) See notes below.
Notes to physician:	Exposure to hydrofluoric acid requires specialized medical treatment. Consult medical personnel specially trained in treating hydrofluoric acid exposure. Keep under observation for 24 hours. Do not attempt to neutralize with bicarbonates or carbonates.

4.2 Most important symptoms and effects, both acute and delayed

General advice	Seek medical attention for all burns, regardless how minor they may seem. The severity of the symptoms described will vary dependant of the concentration and the length of exposure. If adverse symptoms develop, the casualty should be transferred to hospital as soon as possible. Areas where HF is used must be equipped with the following first aid supplies: 2.5% calcium gluconate gel 1% calcium gluconate solution Neoprene, PVC or 8mm thick nitrile gloves Mouth guards or shields for artificial respiration Milk of magnesia, Mylanta, Maalox, Tums, Caltrate or other antacid tablets.
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Main symptoms

Inhalation	Harmful by inhalation. Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Contact with moist mucous membranes of the respiratory system can cause burns and lung damage.
Ingestion	Very toxic if swallowed. Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking.
Skin contact	Corrosive. Tissue destruction proceeds under toughened coagulated resulting in deep ulcers, slow healing and scarring. Burns caused by hydrogen fluoride can be progressive.
Eye contact	Corrosive to the eyes and may cause severe damage including blindness. Contact with moisture can cause caustic conditions resulting in burns and eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	Product is toxic by ingestion. Harmful by inhalation and in contact with skin. This product contains hydrofluoric acid which is readily absorbed into the body causing acute and severe toxic systemic effects.
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5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

The product itself does not burn, Use extinguishing media appropriate for surrounding material.

Extinguishing media which shall not be used for safety reasons

None known.

5.2 Special hazards arising from the substance or mixture

Precautions against fire and explosion

Non-combustible.

Hazardous combustion products

Thermal decomposition can lead to release of irritating gases and vapours, Heating or fire can release toxic gas, Hydrogen fluoride, oxides of fluoride, Chlorine, chlorine oxides, hydrogen chloride.

5.3 Advice for firefighters

Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

Special Fire-Fighting Procedures

Containers close to fire should be removed immediately or cooled with water.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not get on skin or clothing. Wash thoroughly after handling. Do not breathe vapors or spray mist. Use personal protective equipment. See also section 8.

6.2 Environmental precautions

The product should not be allowed to enter drains, water courses or the soil.

Environmental exposure controls

Avoid release to the environment. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and materials for containment and cleaning up

Methods for Containment

Prevent further leakage or spillage if safe to do so. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up

Neutralize with Calcium Carbonate or Calcium Hydroxide (or absorb spill with special HF spill pillow). Put into suitable containers for disposal. Clean contaminated surface thoroughly. After cleaning, flush away traces with water.

6.4 Reference to other sections

See section 13 for more information.

7. Handling and storage

7.1 Precautions for safe handling

Handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Avoid spills and splashing during use. Do not breathe vapors or spray mist.

Hygiene measures

Use good work and personal hygiene practices to avoid exposure. Wash hands and face before breaks and immediately after handling the product. Remove contaminated clothing. Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures/precautions Ensure adequate ventilation. Keep airborne concentrations below exposure limits.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight Store away from incompatibles, Metals Strong bases Strong oxidising agents

Storage class Corrosive storage.

Packaging material Use specially constructed containers only

7.3 Specific end uses

See also Section 1.2.

8. Exposure controls/personal protection

8.1 Control parameters

Component	EU OEL - Third List	Austria	Australia	Denmark
Hydrochloric acid	5 ppm TWA 8 mg/m ³ TWA 10 ppm STEL 15 mg/m ³ STEL	Not determined	Not determined	5 ppm Ceiling 7 mg/m ³ Ceiling
Hydrofluoric acid	1.8 ppm TWA 1.5 mg/m ³ TWA 3 ppm STEL 2.5 mg/m ³ STEL	Not determined	2.5 mg/m ³ TWA (as F)	1.8 ppm TWA 1.5 mg/m ³ TWA

Component	Finland	France	Germany	Hungary
Hydrochloric acid	Not determined	Not determined	2 ppm MAK 3.0 mg/m ³ MAK	Not determined
Hydrofluoric acid	Not determined	1.8 ppm 1.5 mg/m ³	1 ppm MAK 0.83 mg/m ³ MAK	Not determined

Component	New Zealand	Italy	Netherlands	Norway
Hydrochloric acid	5 ppm Ceiling 7.5 mg/m ³ Ceiling	Not determined	8 mg/m ³ GW	5 ppm Ceiling; 7 mg/m ³ Ceiling
Hydrofluoric acid	3 ppm Ceiling 2.6 mg/m ³ Ceiling	Not determined	Not determined	0.5 mg/m ³ TWA Skin

Component	Poland	Portugal	Romania	Russia
Hydrochloric acid	10 mg/m ³ STEL 5 mg/m ³ TWA	Not determined	Not determined	5 mg/m ³ MAC Acute dangerous substance
Hydrofluoric acid	2 mg/m ³ STEL 0.5 mg/m ³ TWA	0.5 ppm TWA F	Not determined	0.5 mg/m ³ STEL vapor 0.1 mg/m ³ TWA vapor Acute dangerous substance

Component	Spain	Switzerland	Turkey	UK
Hydrochloric acid	10 ppm VLA-EC 15 mg/m ³ VLA-EC 5 ppm VLA-ED indicative limit value 7.6 mg/m ³ VLA-ED indicative limit value	4 ppm STEL 6 mg/m ³ STEL 2 ppm MAK 3.0 mg/m ³ MAK	10 ppm STEL 15 mg/m ³ STEL 5 ppm TWA 8 mg/m ³ TWA	5 ppm STEL aerosol mist and gas 8 mg/m ³ STEL aerosol mist and gas 1 ppm TWA aerosol mist and gas 2 mg/m ³ TWA aerosol mist and gas
Hydrofluoric acid	3 ppm VLA-EC 2.5 mg/m ³ VLA-EC 1.8 ppm VLA-ED indicative limit value 1.5 mg/m ³ VLA-ED indicative limit value	2 ppm STEL 1.66 mg/m ³ STEL 1 ppm MAK 0.83 mg/m ³ MAK	3 ppm STEL 2.5 mg/m ³ STEL 1.8 ppm TWA 1.5 mg/m ³ TWA	3 ppm STEL 2.5 mg/m ³ STEL 1.8 ppm TWA 1.5 mg/m ³ TWA

Hydrochloric acid

Inhalation 15 mg/m³

Hydrofluoric acid

Inhalation 2.5 mg/m³

Hydrochloric acid

Inhalation 8 mg/m³

Hydrofluoric acid

Inhalation 1.5 µg/m³

Hydrofluoric acid

Inhalation 2.5 mg/m³

Hydrofluoric acid

Inhalation 1.5 mg/m³

Hydrochloric acid

Fresh Water 36 µg/L

Sea Water 36 µg/L

Impact on Sewage Treatment 36 µg/L

Intermittent release 45 µg/L

Hydrofluoric acid

Fresh Water 0.9 mg/L

Sea Water 0.9 mg/L

Soil	11 mg/kg
Impact on Sewage Treatment	51 mg/L

8.2 Exposure controls

All chemical Personal Protective Equipment (PPE) should be selected based on an assessment of both the chemical hazard present and the risk of exposure to those hazards. The PPE recommendations below are based on an assessment of the chemical hazards associated with this product. Where this product is used in a mixture with other products or fluids, additional hazards may be created and as such further assessment of risk may be required. The risk of exposure and need of respiratory protection will vary from workplace to workplace and should be assessed by the user in each situation.

Engineering measures to reduce exposure

Ensure adequate ventilation. Provide mechanical general and/or local exhaust ventilation to prevent release of vapor or mist into work environment.

Personal protective equipment

Eye protection	It is good practice to wear goggles when handling any chemical. Chemical splash goggles and face shield.
Hand protection	Wear chemical resistant gloves such as nitrile or neoprene, Be aware that liquid may penetrate the gloves. Frequent change is advisable.
Respiratory protection	Use respirator with inorganic vapor/acid gas protection (E, yellow), Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Skin and body protection	Wear appropriate personal protective clothing to prevent skin contact, Eye wash and emergency shower must be available at the work place.

Hygiene measures

Wash hands before eating, drinking or smoking, Remove and wash contaminated clothing before re-use.



9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Aqueous solution
Odour	pungent
Colour	Colourless
Odor threshold	

Property	Values	Remarks
pH	< 1	
pH @ dilution		
Melting/freezing point		
Boiling point/range	100 °C	
Flash Point		
Evaporation rate		
Flammability (solid, gas)	Not Applicable	
Flammability Limits in Air		Not applicable

Upper flammability Limit	Not applicable
Lower flammability limit	Not applicable
Vapor pressure	No information available
Vapor density	>1 (air = 1)
Specific gravity	No information available
Bulk density	No information available
Relative density	1.1 (@ 20°C)
Water solubility	Soluble in water
Solubility in other solvents	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	
Viscosity, dynamic	No information available
Log Pow	Not determined

Explosive properties	Not Applicable
Oxidizing properties	None known.

9.2 Other information

Pour point	No information available
Molecular weight	No information available
VOC content(%)	100
Density VALUE	No information available

10. Stability and reactivity

10.1 Reactivity

Gives off hydrogen by reaction with metals.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of Hazardous Reactions

Hazardous polymerization

Hazardous polymerisation does not occur.

10.4 Conditions to avoid

Avoid strong sunlight.

10.5 Incompatible materials

Metals. Bases. Strong oxidising agents.

10.6 Hazardous decomposition products

See also section 5.2. Thermal decomposition can lead to release of irritating gases and vapours. When heated strongly or burned, and harmful organic chemical fumes are released. Hydrogen fluoride, oxides of fluoride. Chlorine, chlorine oxides, hydrogen chloride.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product information

Product is toxic by ingestion. Harmful by inhalation and in contact with skin. This product contains hydrofluoric acid which is readily absorbed into the body causing acute and severe toxic systemic effects.

Inhalation

Harmful by inhalation. Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Contact with moist mucous membranes of the respiratory system can cause burns and lung damage.

Eye contact

Corrosive to the eyes and may cause severe damage including blindness. Contact with moisture can cause caustic conditions resulting in burns and eye damage.

Skin contact

Corrosive. Tissue destruction proceeds under toughened coagulated resulting in deep ulcers, slow healing and scarring. Burns can be progressive, resembling those caused by hydrogen fluoride.

Ingestion

Toxic if swallowed. Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking.

Acute toxicity

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Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrochloric acid	= 700 mg/kg (Rat)	> 5010 mg/kg (Rabbit)	= 3124 ppm (Rat) 1 h
Hydrofluoric acid	No data available	No data available	= 850 mg/m ³ (Rat) 1 h = 1276 ppm (Rat) 1 h

Sensitisation

This product does not contain any components suspected to be sensitizing.

Mutagenic effects

This product does not contain any known or suspected mutagens.

Carcinogenicity

This product does not contain any known or suspected carcinogens.

Reproductive toxicity

None known.

Routes of exposure

Ingestion. Skin contact. Eye contact. Respiratory system.

Routes of entry

Ingestion. Inhalation. Eye contact. Skin contact. Skin absorption.

Specific target organ toxicity (single exposure) Not classified

Specific target organ toxicity (repeated exposure) Not classified.

Aspiration hazard

No hazard from product as supplied.

12. Ecological information

12.1 Toxicity

The product component(s) are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

Toxicity to algae

See component information below.

Toxicity to fish

See component information below.

Toxicity to daphnia and other aquatic invertebrates

See component information below.

Component	Toxicity to fish	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates
Hydrochloric acid	282 mg/L LC50 (Gambusia affinis) = 96 h	No information available	No information available
Hydrofluoric acid	660 mg/L LC50 (Leuciscus idus) = 48 h	No information available	270 mg/L EC50 (Daphnia species) = 48 h

12.2 Persistence and degradability

No product level data available.

12.3 Bioaccumulative potential

No product level data available.

12.4 Mobility in soil

Mobility

The product is water soluble, and may spread in water systems.

12.5 Results of PBT and vPvB assessment

Not classified as PBT/vPvB by current EU criteria.

12.6 Other adverse effects.

None known.

13. Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused products	Dispose of as hazardous waste in compliance with local and national regulations.
Contaminated packaging	Dispose of in accordance with local regulations.
EWC waste disposal No.	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used. The following Waste Codes are only suggestions: EWC waste disposal No: Waste Code: 16 10 01, 16 03 03 - inorganic wastes containing dangerous substances

14. Transport information

14.1 UN number

UN/ID No. (ADR/RID/ADN/ADG)	UN 2922
UN No. (IMDG)	UN 2922
UN No. (ICAO)	UN 2922

14.2 Proper shipping name

CORROSIVE LIQUID, TOXIC, N.O.S. (contains hydrofluoric acid, hydrochloric acid),

14.3. Hazard class(es)

ADR/RID/ADN Hazard class	8, (6.1)
IMDG Hazard class	8, (6.1)
ICAO Hazard class/division	8, (6.1)

14.4 Packing group

ADR/RID/ADN Packing Group	II
IMDG Packing group	II
ICAO Packing group	II



14.5 Environmental hazard

Marine pollutant

No

14.6 Special precautions

Hazard ID

86

EmS (IMDG)

F-A, S-B

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

Please contact SDS@slb.com for info regarding transport in Bulk.

15. Regulatory information

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

Australian Standard for the Uniform Scheduling of Drugs and Poisons

Hydrochloric acid

Schedule 6

Schedule 5

Hydrofluoric acid

Schedule 4

Schedule 7

Schedule 6

Schedule 5

Schedule 3

Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

This safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008.

International inventories

USA, Toxic Substances Control Act inventory (TSCA)

Complies

European Union - EINECS and ELINCS

Complies

Canada, Domestic Substance List (DSL)

Complies

Philippines (PICCS)

Complies

Inventory - Japan - Existing and New Chemicals list

Complies

China (IECSC)

Complies

Australia (AICS)

Complies

Korea (KECL)

Complies

Inventory - New Zealand - Inventory of Chemicals (NZIoC)

Complies

15.2 Chemical Safety Report

No information available

16. Other information

Prepared by Global Chemical Regulatory Compliance (GCRC)

Supersedes date 27/Feb/2014

Revision date 07/Oct/2014

Version 3

The following sections have been revised SDS fully updated in the new database, Updated according to GHS/CLP.

Text of R phrases mentioned in Section 3

R20 - Harmful by inhalation
R21 - Also harmful through contact with skin
R25 - Toxic if swallowed
R35 - Causes severe burns
R34 - Causes burns
R37 - Irritating to respiratory system

R26/27/28 - Very toxic by inhalation, in contact with skin and if swallowed

Full text of H-Statements referred to under sections 2 and 3

H301 - Toxic if swallowed
H312 - Harmful in contact with skin
H314 - Causes severe skin burns and eye damage
H332 - Harmful if inhaled

H290 - May be corrosive to metals

H290 - May be corrosive to metals
H300 - Fatal if swallowed
H310 - Fatal in contact with skin
H330 - Fatal if inhaled
H335 - May cause respiratory irritation

Disclaimer

The information provided in this Material 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 guide 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.