

# ALUMINIUM SULPHATE

## Safety Data Sheet

according to Regulation (EU) 2015/830

Issue date: 11/9/2020 Revision date: 11/9/2023

Version: 1.1

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

#### 1.1. Product identifier

Product form	: Substance
Trade name	: ALUMINIUM SULPHATE
Chemical name	: Aluminiumsulfate
EC-No.	: 233-135-0
CAS-No.	: 10043-01-3
Product code	: ALUMINIUM SULPHATE
Type of product	: Pure substance, Hygroscopic substance. Preventive measures apply to the substance in dry state only
Formula	: Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>
Synonyms	: alun / alum (=aluminiumsulfate) / aluminium sulfate, solid / aluminium sulphate / aluminium trisulfate / aluminiumsulfate / aluminiumsulfate, dry / aluminum alum / aluminum sulfate / aluminum sulphate / aluminum trisulfate / aluminum(III) sulfate / alunogenite / amostab / cace alum / cake alum / dialuminium sulfate / dialuminium sulphate / dialuminium trisulfate / dialuminium sulfate / dialuminium sulphate / dialuminium trisulfate / fertosan / filter alum / Hi Soft C2 / KEMRO SAR / luminum alum / nalco 7530 / paper maker's alum / patent aluminium / pearl alum / pickle alum / sulfate of alumina / sulfatodialuminium disulfate / sulfuric acid aluminium salt / sulfuric acid aluminum (3+) salt (3:2) / sulfuric acid aluminum salt / sulfuric acid aluminum salt (Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> ) / sulfuric acid, aluminium salt (3:2) / tai-ace S150
Product group	: Trade product

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture	: Water conditioning: flocculant Paper production: auxiliary substance Food industry: additive Leather: mordant
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##### 1.2.2. Uses advised against

No additional information available

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

ImproChem(Pty) Ltd T/A AECI Water  
1 Wharhirst Road  
Umbogintwini - South Africa  
T +27(31) 949 8200

#### 1.4. Emergency telephone number

Emergency number : 0800 SPILLS or 0800 774557

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 1	H318
Hazardous to the aquatic environment — Chronic Hazard, Category 2	H411
Hazardous to the aquatic environment — Chronic Hazard, Category 3	H412

Full text of H statements : see section 16

##### Adverse physicochemical, human health and environmental effects

Causes skin irritation. Causes serious eye damage. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.

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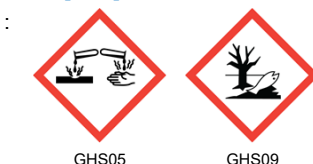
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### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP)

Hazard statements (CLP)

Precautionary statements (CLP)

- : Danger
- : H315 - Causes skin irritation.  
H318 - Causes serious eye damage.  
H411 - Toxic to aquatic life with long lasting effects.  
H412 - Harmful to aquatic life with long lasting effects.
- : P280 - Wear goggles, gloves, clothing and respiratory protection  
P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P391 - Collect spillage.

### 2.3. Other hazards

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Name	Product identifier	%
ALUMINIUM SULPHATE	(CAS-No.) 10043-01-3 (EC-No.) 233-135-0	100

Full text of H-statements: see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures general : Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.
- First-aid measures after inhalation : Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
- First-aid measures after skin contact : Wash with plenty of water/.... Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Get medical advice/attention. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse immediately with plenty of water for 15 minutes. Get immediate medical advice/attention. Rinse cautiously with water for several minutes. Call a physician immediately.
- First-aid measures after ingestion : Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Call Poison Information Centre ([www.big.be/antigif.htm](http://www.big.be/antigif.htm)). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital.

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

- Symptoms/effects after inhalation : Harmful by inhalation. Irritation of the respiratory tract.
- Symptoms/effects after skin contact : Causes skin irritation. Irritation.
- Symptoms/effects after eye contact : Causes eye irritation. Causes serious eye damage. Serious damage to eyes.
- Symptoms/effects after ingestion : Harmful if swallowed.
- Chronic symptoms : ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Red skin. Dry skin. Skin rash/inflammation. Slowing ossification. Enlargement/affection of the liver.

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

Treat symptomatically.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Adapt extinguishing media to the environment.  
Unsuitable extinguishing media : Do not use a heavy water stream.

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

- Fire hazard : DIRECT FIRE HAZARD. Non combustible.  
Explosion hazard : DIRECT EXPLOSION HAZARD. No data available on direct explosion hazard. INDIRECT EXPLOSION HAZARD. No data available on indirect explosion hazard.  
Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Advice for firefighters

- Precautionary measures fire : Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.  
Firefighting instructions : Cool tanks/drums with water spray/remove them into safety. Dilute toxic gases with water spray. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.  
Protection during firefighting : Heat/fire exposure: compressed air/oxygen apparatus.

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

- Protective equipment : Gloves. Safety glasses. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. Reactivity hazard: compressed air/oxygen apparatus. Reactivity hazard: gas-tight suit. See "Material-Handling" to select protective clothing.  
Emergency procedures : Mark the danger area. Prevent dust cloud formation. No naked flames. Avoid ingress of water in the containers. Wash contaminated clothes. In case of hazardous reactions: keep upwind. In case of reactivity hazard: consider evacuation.  
Measures in case of dust release : In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows.

##### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Prevent soil and water pollution. Prevent spreading in sewers.

#### 6.3. Methods and material for containment and cleaning up

- For containment : Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Dam up the solid spill. Knock down/dilute dust cloud with water spray. If reacting: dilute toxic gas/vapour with water spray. Take account of toxic/corrosive precipitation water.  
Methods for cleaning up : Stop dust cloud by covering with sand/earth. Scoop solid spill into closing containers. See "Material-handling" for suitable container materials. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.  
Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Handle uncleaned empty containers as full ones. Do not discharge the waste into the drain. Avoid raising dust. Keep away from naked flames/heat. Avoid contact of substance with water. Observe strict hygiene. Keep container tightly closed. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.  
Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

- Storage conditions : Store in a well-ventilated place. Keep cool.  
Heat and ignition sources : KEEP SUBSTANCE AWAY FROM: heat sources.  
Information on mixed storage : KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) bases. water/moisture.

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Storage area	: Store at ambient temperature. Keep out of direct sunlight. Store in a dry area. Keep container in a well-ventilated place. Unauthorized persons are not admitted. Meet the legal requirements.
Special rules on packaging	: SPECIAL REQUIREMENTS: closing. watertight. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
Packaging materials	: SUITABLE MATERIAL: stainless steel. steel with rubber inner lining. polyethylene. polypropylene. MATERIAL TO AVOID: steel. aluminium. iron. carbon steel.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### ALUMINIUM SULPHATE (10043-01-3)

##### United Kingdom - Occupational Exposure Limits

WEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> Aluminium salts, soluble; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
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DNEL : 3 mg/m<sup>3</sup>

#### ALUMINIUM SULPHATE (10043-01-3)

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DNEL : 3 mg/m<sup>3</sup>

### 8.2. Exposure controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Personal protective equipment	: Protective goggles. Gloves, shoulder length. Protective clothing. Safety Boots. Dust formation: dust mask.
Materials for protective clothing	: GIVE EXCELLENT RESISTANCE: butyl rubber. neoprene. natural rubber. polyethylene. PVC. tetrafluoroethylene. viton. GIVE POOR RESISTANCE: PVA
Hand protection	: Gloves, shoulder length
Eye protection	: Protective goggles
Skin and body protection	: Protective clothing
Respiratory protection	: Dust production: dust mask with filter type P2



Environmental exposure controls : Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Crystalline solid. Powder. Grains. Lumps.
Molecular mass	: 342.14 g/mol
Colour	: Colourless to white.
Odour	: Odourless.
Odour threshold	: No data available
pH	: 2 (8 %)
pH solution	: 8 %
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 770 °C
Freezing point	: Not applicable
Boiling point	: Not applicable

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Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: 770 °C
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: < 0.1 hPa (20 °C)
Relative vapour density at 20 °C	: No data available
Relative density	: 2.7 (20 °C)
Density	: 2710 kg/m <sup>3</sup> (20 °C)
Solubility	: Soluble in water. Exothermically soluble in water. Soluble in acids. Water: 36 g/100ml
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable

### 9.2. Other information

Minimum ignition energy	: Not applicable
SADT	: Not applicable
Other properties	: Hygroscopic. Substance has acid reaction.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Decomposes exothermically on exposure to water (moisture): release of corrosive products (sulphuric acid vapours). On burning: release of toxic and corrosive gases/vapours (sulphur oxides) and formation of metallic fumes. Reacts violently with (some) bases. Reacts violently with (strong) oxidizers: release of toxic and corrosive gases/vapours (sulphur oxides).

### 10.2. Chemical stability

Hygroscopic.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes skin irritation. pH: 2 (8 %)
Serious eye damage/irritation	: Causes serious eye damage. pH: 2 (8 %)
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

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### SECTION 12: Ecological information

#### 12.1. Toxicity

- Ecology - general : Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.
- Ecology - air : Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).
- Ecology - water : Ground water pollutant. Maximum concentration in drinking water: 0.200 mg/l (aluminium) (Directive 98/83/EC); 250 mg/l (sulfate) (Directive 98/83/EC). Slightly harmful to fishes (LC50(96h) 100-1000 mg/l). Slightly harmful to invertebrates (Daphnia). Slightly harmful to algae (EC50: 100 - 1000 mg/l). pH shift.

ALUMINIUM SULPHATE (10043-01-3)	
LC50 fish 1	214.6 – 228.5 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Pimephales promelas; Flow-through system; Fresh water; Experimental value)
EC50 Daphnia 1	242 mg/l (LC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
Threshold limit algae 1	3011 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 5 days; Algae; Static system; Fresh water; Experimental value)
Threshold limit algae 2	602.17 mg/l (NOEC; OECD 201: Alga, Growth Inhibition Test; 5 days; Algae; Static system; Fresh water; Experimental value)

#### 12.2. Persistence and degradability

ALUMINIUM SULPHATE (10043-01-3)	
Persistence and degradability	Biodegradability: not applicable. Hydrolysis in water.

#### 12.3. Bioaccumulative potential

ALUMINIUM SULPHATE (10043-01-3)	
BCF fish 1	76 – 190 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 60 days; Salmo salar; Flow-through system; Fresh water; Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

- Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- Product/Packaging disposal recommendations : Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle/reuse. Precipitate/make insoluble. Remove to an authorized dump (Class I). Do not discharge unmonitored into the environment. Treat using the best available techniques before discharge into drains or the aquatic environment.
- Additional information : LWCA (the Netherlands): KGA category 05. Hazardous waste according to Directive 2008/98/EC.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

- UN-No. (ADR) : 3077
- UN-No. (IMDG) : 3077
- UN-No. (IATA) : 3077

#### 14.2. UN proper shipping name

- Proper Shipping Name (ADR) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
- Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
- Proper Shipping Name (IATA) : Environmentally hazardous substance, solid, n.o.s.
- Transport document description (ADR) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. ((Aluminium Sulphate)), 9, III, (E)
- Transport document description (IMDG) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. ((Aluminium Sulphate)), 9, III, MARINE POLLUTANT

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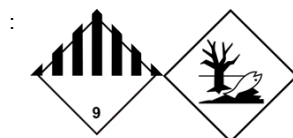
Transport document description (IATA) : UN 3077 Environmentally hazardous substance, solid, n.o.s. ((Aluminium Sulphate)), 9, III

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : 9

Danger labels (ADR) : 9



#### IMDG

Transport hazard class(es) (IMDG) : 9

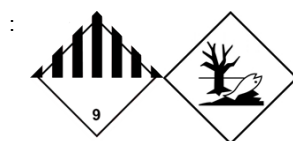
Danger labels (IMDG) : 9



#### IATA

Transport hazard class(es) (IATA) : 9

Danger labels (IATA) : 9



### 14.4. Packing group

Packing group (ADR) : III

Packing group (IMDG) : III

Packing group (IATA) : III

### 14.5. Environmental hazards

Dangerous for the environment : Yes

Marine pollutant : Yes

Other information : No supplementary information available

### 14.6. Special precautions for user

#### - Overland transport

Transport regulations (ADR) : Not subject

Classification code (ADR) : M7

Special provisions (ADR) : 274, 335, 601, 375

Limited quantities (ADR) : 5kg

Excepted quantities (ADR) : E1

Packing instructions (ADR) : P002, IBC08, LP02, R001

Special packing provisions (ADR) : PP12, B3

Mixed packing provisions (ADR) : MP10

Portable tank and bulk container instructions (ADR) : T1, BK1, BK2

Portable tank and bulk container special provisions (ADR) : TP33

Tank code (ADR) : SGAV, LGBV

Vehicle for tank carriage : AT

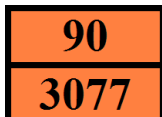
Transport category (ADR) : 3

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Special provisions for carriage - Packages (ADR)	: V13
Special provisions for carriage - Bulk (ADR)	: VC1, VC2
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13
Hazard identification number (Kemler No.)	: 90
Orange plates	:



Tunnel restriction code (ADR)	: E
EAC code	: 2Z

### - Transport by sea

Transport regulations (IMDG)	: Not subject
Special provisions (IMDG)	: 274, 335, 966, 967, 969
Limited quantities (IMDG)	: 5 kg
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P002, LP02
Special packing provisions (IMDG)	: PP12
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B3
Tank instructions (IMDG)	: T1, BK1, BK2, BK3
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-F
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW23

### - Air transport

Transport regulations (IATA)	: Not subject
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y956
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 956
PCA max net quantity (IATA)	: 400kg
CAO packing instructions (IATA)	: 956
CAO max net quantity (IATA)	: 400kg
Special provisions (IATA)	: A97, A158, A179, A197
ERG code (IATA)	: 9L

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

ALUMINIUM SULPHATE is not on the REACH Candidate List

ALUMINIUM SULPHATE is not on the REACH Annex XIV List

#### 15.1.2. National regulations

##### Germany

Regulatory reference	: WGK 1, Slightly hazardous to water (Classification according to AwSV; ID No. 486)
WGK remark	: Classification water polluting in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 2)
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)



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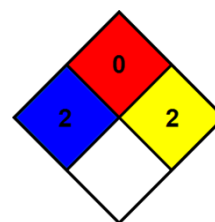
according to Regulation (EU) 2015/830

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### SECTION 16: Other information

- NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
- NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
- NFPA reactivity : 2 - Materials that readily undergo violent chemical change at elevated temperatures and pressures.



Full text of H- and EUH-statements:

Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H315	Causes skin irritation.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

SDS ImproChem Test

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