

according to Regulation (EC) No 1907/2006

Silicium - Ätzmischung HNO? 45 % / HF 5 %

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

1.1. Product identifier

Silicium - Ätzmischung HNO? 45 % / HF 5 %

UFI: RRY1-43SX-P001-72F1

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

Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against

Do not use for private purposes (household).

1.3. Details of the supplier of the safety data sheet

Company name: AnalytiChem GmbH

ACD

Street: Stempelstraße 6
Place: D-47167 Duisburg

Telephone: 0203/5194-0 Telefax: 0203/5194-290

E-mail: info@analytichem.de

Contact person: Abteilung Produktsicherheit Telephone: 0203/5194-107/117

E-mail: produktsicherheit@analytichem.de

Internet: www.analytichem.de
Responsible Department: Abteilung Produktsicherheit

1.4. Emergency telephone For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire,

number: Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada:

1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls

accepted)

Further Information

This product is a mixture. REACH Registration Number see section 3.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Met. Corr. 1; H290 Acute Tox. 2; H310 Acute Tox. 3; H331 Acute Tox. 3; H301 Skin Corr. 1A; H314 Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

nitric acid 45 % hydrofluoric acid 5 %

Signal word: Danger



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Pictograms:





Hazard statements

H290 May be corrosive to metals.
H301+H331 Toxic if swallowed or if inhaled.
H310 Fatal in contact with skin.

H314 Causes severe skin burns and eye damage.

Precautionary statements

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

P280 Wear protective gloves/protective clothing and eye protection/face protection.

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

or 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.

P310 Immediately call a POISON CENTER/doctor.

Special labelling of certain mixtures

EUH071 Corrosive to the respiratory tract.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixtures in aqueous solution

Relevant ingredients

| CAS No | Chemical name | | | Quantity | | | |
|-----------|----------------------------------------------------------------------------------------------------|-----------------------------------------------|------------------|------------|--|--|--|
| | EC No | Index No | REACH No | | | | |
| | Classification (Regulation | Classification (Regulation (EC) No 1272/2008) | | | | | |
| 7697-37-2 | nitric acid | | | | | | |
| | 231-714-2 | 007-030-00-3 | 01-2119487297-23 | | | | |
| | Ox. Liq. 3, Met. Corr. 1, Acute Tox. 3, Skin Corr. 1A, Eye Dam. 1; H272 H290 H331 H314 H318 EUH071 | | | | | | |
| 7664-39-3 | Hydrofluoric acid % | | | 5 - < 10 % | | | |
| | 231-634-8 | 009-003-00-1 | 01-2119458860-33 | | | | |
| | Acute Tox. 1, Acute Tox. 2, Acute Tox. 2, Skin Corr. 1A, Eye Dam. 1; H310 H330 H300 H314 H318 | | | | | | |

Full text of H and FUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

| opcome co | iio. Ellillito, Wi la | | | | |
|-----------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------|------------|--|--|
| CAS No | EC No | Chemical name | | | |
| | Specific Conc. | Limits, M-factors and ATE | | | |
| 7697-37-2 | 231-714-2 | 45 - < 50 % | | | |
| | | E 2,65 mg/l (vapours) Ox. Liq. 3; H272: >= 65 - 100 Skin Corr. 1A; H314: >= 20 orr. 1B; H314: >= 5 - < 20 | | | |
| 7664-39-3 | 231-634-8 | Hydrofluoric acid % | 5 - < 10 % | | |
| | LC50 = 2240 p | E = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); inhalation: pm (gases); dermal: ATE = 5 mg/kg; oral: ATE = 5 mg/kg | | | |



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Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

fast help required

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down.

Call a physician immediately.

After inhalation

Provide fresh air.

If breathing is irregular or stopped, administer artificial respiration.

Call a physician immediately.

After contact with skin

Remove contaminated, saturated clothing immediately.

Wash immediately with:

Ca-Gluconate solution

Water

Call a physician immediately.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water.

Adverse human health effects and symptoms: Gastric perforation.

Call a physician immediately.

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

Irritant — skin irritation and eye damage

Causes burns.

Cough

Dyspnoea

Risk of serious damage to eyes.

Vomiting

Methaemoglobinaemia

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

It is recommended to consult a doctor with experience in the treatment of lesions caused by hydrofluoric acid

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Non-combustible liquids

Hazardous combustion products

In case of fire may be liberated:

Nitrogen oxides (NOx)

Hydrogen fluoride



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5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Do not inhale explosion and combustion gases.

Avoid contact with skin, eyes and clothes.

Additional information

Suppress gases/vapours/mists with water spray jet.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Move undamaged containers from immediate hazard area if it can be done safely.

Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Corrosive to metals.

Do not breathe vapour/aerosol.

For non-emergency personnel

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

Emergency procedures

Consult an expert

Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders: Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

Clean contaminated articles and floor according to the environmental legislation.

6.3. Methods and material for containment and cleaning up

For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Collect in closed and suitable containers for disposal.

Unsuitable container/equipment material: Metal, Glass

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Read label before use. Handle and open container with care.



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When using do not eat, drink, smoke, sniff. Keep container tightly closed.

Use personal protection equipment. Use extractor hood (laboratory).

Provide adequate ventilation.

Avoid contact with skin, eyes and clothes.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs. Make available sufficient washing facilities

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Further information on handling

Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary.

Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations.

Hints on joint storage

national regulations

Further information on storage conditions

Store in a dry place.

Unsuitable container/equipment material: Metal, Glass

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

| CAS No | Substance | ppm | mg/m³ | fib/cm³ | Category | Origin |
|-----------|--------------------------|-----|-------|---------|---------------|--------|
| 7664-39-3 | Hydrogen fluoride (as F) | 1.8 | 1.5 | | TWA (8 h) | |
| | | 3 | 2.5 | | STEL (15 min) | |
| 7697-37-2 | Nitric acid | 1 | 2.6 | | STEL (15 min) | |

Biological limit values

| CAS No | Substance | Parameter | Value | Test material | Sampling time |
|-----------|-------------------|-----------|--------|---------------|---------------|
| 7664-39-3 | Hydrogen fluoride | Fluoride | 3 mg/L | Urine | End of shift |



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DNEL/DMEL values

| CAS No | Substance | | | |
|--------------------------|--------------------------|------------|----------|----------------------|
| DNEL type | DNEL type | | Effect | Value |
| 7664-39-3 | Hydrofluoric acid % | | | |
| Worker DNE | L, long-term | inhalation | systemic | 1,5 mg/m³ |
| Worker DNE | L, acute | inhalation | systemic | 2,5 mg/m³ |
| Worker DNE | L, long-term | inhalation | local | 1,5 mg/m³ |
| Worker DNE | L, acute | inhalation | local | 2,5 mg/m³ |
| Consumer D | Consumer DNEL, long-term | | systemic | 0,03 mg/m³ |
| Consumer D | NEL, acute | inhalation | systemic | 0,03 mg/m³ |
| Consumer D | NEL, long-term | inhalation | local | 0,2 mg/m³ |
| Consumer D | Consumer DNEL, acute | | local | 1,25 mg/m³ |
| Consumer DNEL, long-term | | oral | systemic | 0,01 mg/kg bw/day |
| Consumer DNEL, acute | | oral | systemic | 0,01 mg/kg bw/day |

PNEC values

| CAS No | Substance | | | |
|-------------------------------|--------------------------------------|-------------|--|--|
| Environmenta | al compartment | Value | | |
| 7664-39-3 Hydrofluoric acid % | | | | |
| Freshwater | | 0,89 mg/l | | |
| Marine water | | 0,089 mg/l | | |
| Freshwater se | ediment | 3,38 mg/kg | | |
| Marine sedim | ent | 0,338 mg/kg | | |
| Micro-organis | rms in sewage treatment plants (STP) | 51 mg/l | | |
| Soil | | 10,6 mg/kg | | |

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: Face protection shield

goggles.

Hand protection

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact

Recommended glove articles: KCL 898 Butoject®

Recommended material: Butyl caoutchouc (butyl rubber) 0,7 mm

Wearing time with permanent contact: > 480 min

By short-term hand contact



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Recommended glove articles: KCL 730 Camatril® Velours Recommended material: NBR (Nitrile rubber) 0,4 mm Wearing time with occasional contact (splashes): > 210 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Wear suitable protective clothing.

Take off immediately all contaminated clothing.

Wash hands before breaks and after work.

The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.

Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. In case of inadequate ventilation wear respiratory protection.

Thermal hazards

No data available

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: colourless
Odour: stinging

Odour threshold: No data available

Melting point/freezing point:

No data available
Boiling point or initial boiling point and

No data available

boiling range:

Flammability: not applicable
Lower explosion limits: No data available
Upper explosion limits: No data available
Flash point: X
Auto-ignition temperature: No data available
Decomposition temperature: No data available

pH-Value: <1
Viscosity / kinematic: No data available

Solubility in other solvents

not determined

Dissolution rate: No data available Partition coefficient n-octanol/water: No data available Dispersion stability: No data available Vapour pressure: No data available Vapour pressure: No data available Density: 1,3008 g/cm³ Relative density: No data available Bulk density: No data available



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Relative vapour density:

Particle characteristics:

No data available

No data available

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

No data available
Self-ignition temperature

Solid: not applicable
Gas: not applicable

Oxidizing properties

The product is: oxidising, Oxidising.

Other safety characteristics

Evaporation rate:

Solvent separation test:

Solvent content:

Solid content:

Sublimation point:

Softening point:

No data available

Viscosity / dynamic:

Flow time:

No data available

No data available

Further Information Corrosive to metals.

SECTION 10: Stability and reactivity

10.1. Reactivity

Corrosive to metals.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Alkali (lye)

Corrosive to metals.

The product develops hydrogen in an aqueous solution in contact with metals.

10.4. Conditions to avoid

Radiant heat.

10.5. Incompatible materials

Metal

Glass

The product develops hydrogen in an aqueous solution in contact with metals.

10.6. Hazardous decomposition products

In case of fire may be liberated:

SECTION 5: Firefighting measures

Further information

No data available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008



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Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

Acute toxicity

Fatal in contact with skin.

Toxic if inhaled.

Toxic if swallowed.

Obtain special instructions before use.

ATEmix calculated

ATE (oral) 100,0 mg/kg; ATE (dermal) 100,0 mg/kg; ATE (inhalation vapour) 3,710 mg/l; ATE (inhalation dust/mist) 1,000 mg/l

| CAS No | Chemical name | | | | | | | |
|-----------|----------------------|-------------|-----------|---------|---------------------|--------------------|--|--|
| | Exposure route | Dose | | Species | Source | Method | | |
| 7697-37-2 | nitric acid | | | | | | | |
| | inhalation vapour | ATE 2,6 | 5 mg/l | | | | | |
| 7664-39-3 | Hydrofluoric acid % | | | | | | | |
| | oral | ATE | 5 mg/kg | | | | | |
| | dermal | ATE | 5 mg/kg | | | | | |
| | inhalation vapour | ATE | 0,5 mg/l | | | | | |
| | inhalation dust/mist | ATE | 0,05 mg/l | | | | | |
| | inhalation (1 h) gas | LC50 ppm | 2240 | Rat | Study report (1990) | OECD Guideline 403 | | |

Irritation and corrosivity

Skin corrosion/irritation: Causes severe skin burns and eye damage.

Serious eye damage/eye irritation: Causes serious eye damage.

Corrosive to the respiratory tract.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Information on likely routes of exposure

There are no data available on the mixture itself.

Specific effects in experiment on an animal

There are no data available on the mixture itself.

Additional information on tests

There are no data available on the mixture itself.

Practical experience

There are no data available on the mixture itself.

11.2. Information on other hazards

Endocrine disrupting properties

There are no data available on the mixture itself.



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Other information

Adverse human health effects and symptoms gastric perforation
Pulmonary oedema
see also Section 4

Further information

It is recommended to consult a doctor with experience in the treatment of lesions caused by hydrofluoric acid

SECTION 12: Ecological information

12.1. Toxicity

Based on available data, the classification criteria are not met.

| CAS No | Chemical name | | | | | | | | |
|-----------|-------------------------|------------------|----------|-----------|----------------------------------------------------------|-----------------------------------------------|------------------------------------------------|--|--|
| | Aquatic toxicity | Dose | | [h] [d] | Species | Source | Method | | |
| 7697-37-2 | nitric acid | | | | | | | | |
| | Acute fish toxicity | LC50 mg/l | 1559 | 96 h | Topeka shiner | Environmental Toxicology and Chemistry, | other: ASTM E729-26 | | |
| | Fish toxicity | NOEC | 268 mg/l | 30 d | juvenile Topeka shiner and with juvenile Fathead m | Study report (2009) | Growth tests estimated the test chemical | | |
| | Algae toxicity | NOEC mg/l | > 419 | 10 d | several benthic diatoms; see results | Marine Biology 43:307-315 (1977) | Ten cultures of benthic diatoms were iso | | |
| | Acute bacteria toxicity | EC50 mg/l () | > 1000 | 3 h | Activated sludge | Study report (2008) | OECD Guideline 209 | | |
| 7664-39-3 | Hydrofluoric acid % | | | | | | | | |
| | Acute fish toxicity | LC50 | 299 mg/l | 96 h | Salmo trutta | REACh Registration Dossier | other: U.S Environmental Protection Agen | | |
| | Acute algae toxicity | ErC50 | 43 mg/l | 96 h | various algae species | REACh Registration Dossier | Methods not detailed in the review. | | |
| | Crustacea toxicity | NOEC | 3,7 mg/l | 21 d | Daphnia magna | REACh Registration Dossier | The publication is a review article of v | | |
| | Acute bacteria toxicity | EC50 mg/l () | 2930 | 3 h | Activated sludge | REACh Registration Dossier | ISO 8192 | | |

12.2. Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

BCF

| CAS No | Chemical name | BCF | Species | Source |
|-----------|---------------------|---------|---------------|----------------------|
| 7664-39-3 | Hydrofluoric acid % | 53 - 58 | not specified | REACh Registration D |

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.



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12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

Harmful effect due to pH shift.

Forms corrosive mixtures with water even if diluted.

Discharge into the environment must be avoided.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Send to a physico-chemical treatment facility under observation of official regulations.

Do not empty into drains.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 3289

14.2. UN proper shipping name: TOXIC LIQUID, CORROSIVE, INORGANIC, N.O.S. (nitric acid,

Hydrofluoric acid)

14.3. Transport hazard class(es): 6.1 14.4. Packing group: П Hazard label: 6.1+8 Classification code: TC3 **Special Provisions:** 274 Limited quantity: 100 mL Excepted quantity: E4 Transport category: Hazard No: 68 Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 3289

14.2. UN proper shipping name: TOXIC LIQUID, CORROSIVE, INORGANIC, N.O.S. (nitric acid,

Hydrofluoric acid)

14.3. Transport hazard class(es):6.114.4. Packing group:IIHazard label:6.1+8Classification code:TC3Special Provisions:274 802Limited quantity:100 mLExcepted quantity:E4

Marine transport (IMDG)

14.1. UN number or ID number: UN 3289

14.2. UN proper shipping name: TOXIC LIQUID, CORROSIVE, INORGANIC, N.O.S. (nitric acid,

Hydrofluoric acid)



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14.3. Transport hazard class(es):6.114.4. Packing group:IIHazard label:6.1+8Special Provisions:274Limited quantity:100 mLExcepted quantity:E4EmS:F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 3289

14.2. UN proper shipping name: TOXIC LIQUID, CORROSIVE, INORGANIC, N.O.S. (nitric acid,

Hydrofluoric acid)

14.3. Transport hazard class(es):6.114.4. Packing group:IIHazard label:6.1+8Special Provisions:A4 A137Limited quantity Passenger:0.5 LPassenger LQ:Y640Excepted quantity:E4

IATA-packing instructions - Passenger: 653
IATA-max. quantity - Passenger: 1 L
IATA-packing instructions - Cargo: 660
IATA-max. quantity - Cargo: 30 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning: Oxidising substances. strongly corrosive.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

Information according to Directive H2 ACUTE TOXIC

2012/18/EU (SEVESO III):

Marketing and use of explosives precursors (Regulation (EU) 2019/1148):

Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or

nursing mothers.

Water hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information



according to Regulation (EC) No 1907/2006

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Changes

This data sheet contains changes from the previous version in section(s): 2,4,6,8,9,11,12,14,15.

Abbreviations and acronyms

Ox. Liq: Oxidising liquid

Met. Corr: Substance or mixture corrosive to metals

Acute Tox: Acute toxicity Skin Corr: Skin corrosion Eve Dam: Eve damage

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

| Classification | Classification procedure |
|---------------------|--------------------------|
| Met. Corr. 1; H290 | On basis of test data |
| Acute Tox. 2; H310 | Calculation method |
| Acute Tox. 3; H331 | Calculation method |
| Acute Tox. 3; H301 | Calculation method |
| Skin Corr. 1A; H314 | Calculation method |
| Eye Dam. 1; H318 | Calculation method |

Relevant H and EUH statements (number and full text)

| H272 | May intensify fire; oxidiser. |
|------|-------------------------------|
| H290 | May be corrosive to metals. |

H300 Fatal if swallowed. H301 Toxic if swallowed.

H301+H331 Toxic if swallowed or if inhaled.
H310 Fatal in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H330 Fatal if inhaled. H331 Toxic if inhaled.

EUH071 Corrosive to the respiratory tract.

Further Information

Provide appropriate information, instructions and training to users

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)