

Safety Data Sheet

according to UK REACH Regulation

Silver gel

Revision date: 02.11.2022

Product code: 0211

Page 1 of 14

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Silver gel

UFI: TGCU-XKNC-X008-5RWG

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

Metal surface treatment products

Uses advised against

No further relevant information available.

1.3. Details of the supplier of the safety data sheet

| | | |
|-----------------|-----------------------------------|-----------------------------|
| Company name: | MARAWE GmbH & Co. KG | |
| Street: | Donaustauer Str. 378 - Gebäude 64 | |
| Place: | D-93055 Regensburg | |
| Telephone: | +49 941 / 29020439 | Telefax: +49 941 / 29020593 |
| e-mail: | info@marawe.de | |
| Contact person: | Product safety department | |
| Internet: | www.marawe.de | |

1.4. Emergency telephone number:+49 941 / 29020439,
Mo-Do 9:00 - 16:00 Uhr; Fr 9:00 - 14:00 Uhr**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**Met. Corr. 1; H290
Skin Corr. 1B; H314
Eye Dam. 1; H318
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements**GB CLP Regulation****Hazard components for labelling**sodium hydroxide; caustic soda
Silver nitrate
ammonia**Signal word:** Danger**Pictograms:****Hazard statements**

| | |
|------|--|
| H290 | May be corrosive to metals. |
| H314 | Causes severe skin burns and eye damage. |
| H412 | Harmful to aquatic life with long lasting effects. |

Precautionary statements

| | |
|------|---|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children. |

Safety Data Sheet

according to UK REACH Regulation

Silver gel

Revision date: 02.11.2022

Product code: 0211

Page 2 of 14

| | |
|----------------|--|
| P234 | Keep only in original packaging. |
| P260 | Do not breathe vapours. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| 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. |
| P390 | Absorb spillage to prevent material damage. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container to according to local/national waste disposal regulations. |

SECTION 3: Composition/information on ingredients
3.2. Mixtures
Hazardous components

| CAS No | Chemical name | Quantity |
|-----------|---|------------------|
| | EC No | Index No |
| | REACH No | |
| | Classification (GB CLP Regulation) | |
| 1310-73-2 | sodium hydroxide; caustic soda | 1.9 - < 5 % |
| | 215-185-5 | 01-2119457892-27 |
| | Met. Corr. 1, Skin Corr. 1A, Eye Dam. 1; H290 H314 H318 | |
| 5949-29-1 | Citric acid, monohydrate | 1.9 - < 5 % |
| | 201-069-1 | 01-2119457026-42 |
| | Eye Irrit. 2; H319 | |
| 7761-88-8 | Silver nitrate | 1 - < 1.9 % |
| | 231-853-9 | 01-2119513705-43 |
| | Ox. Sol. 2, Met. Corr. 1, Skin Corr. 1B, Aquatic Acute 1, Aquatic Chronic 1; H272 H290 H314 H400 H410 | |
| 1336-21-6 | ammonia | 1 - < 1.9 % |
| | 215-647-6 | 01-2119488876-14 |
| | Skin Corr. 1B, Eye Dam. 1, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 2; H314 H318 H335 H400 H411 | |

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

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|-----------|-----------|--|-------------|
| | | Specific Conc. Limits, M-factors and ATE | |
| 1310-73-2 | 215-185-5 | sodium hydroxide; caustic soda | 1.9 - < 5 % |
| | | Skin Corr. 1A; H314: >= 5 - 100 Skin Corr. 1B; H314: >= 2 - < 5 Skin Irrit. 2; H315: >= 0,5 - < 2 Eye Irrit. 2; H319: >= 0,5 - < 2 | |
| 5949-29-1 | 201-069-1 | Citric acid, monohydrate | 1.9 - < 5 % |
| | | dermal: LD50 = > 2000 mg/kg; oral: LD50 = 5400 mg/kg | |
| 7761-88-8 | 231-853-9 | Silver nitrate | 1 - < 1.9 % |
| | | oral: LD50 = >2000 mg/kg | |
| 1336-21-6 | 215-647-6 | ammonia | 1 - < 1.9 % |
| | | STOT SE 3; H335: >= 5 - 100 | |

SECTION 4: First aid measures

Safety Data Sheet

according to UK REACH Regulation

Silver gel

Revision date: 02.11.2022

Product code: 0211

Page 3 of 14

4.1. Description of first aid measures**General information**

Remove/Take off immediately all contaminated clothing. Be careful with contaminated clothes and shoes of the victim - they could still contain the product.

After inhalation

Provide fresh air. Medical treatment necessary.

After contact with skin

Clean with soap and water, if possible also with polyethylene glycol 400. Take off immediately all contaminated clothing and wash it before reuse. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

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. Remove contact lenses, if present and easy to do. Protect uninjured eye.

After ingestion

Rinse mouth immediately and drink 1 glass of water. Never give anything by mouth to an unconscious person or a person with cramps. Do NOT induce vomiting. Call a physician immediately.

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

Burning and aching eyes, skin and mucous membranes. In case of ingestion, strong irritation of oral cavities and throat as well as danger of perforation of the gullet.

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

In the case of lung irritation: Primary treatment using corticoide spray, eg. Auxiluson spray, Pulmicort-dosage-spray. (Auxiluson and Pulmicort are registered trademarks.) Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Ambient fire may liberate hazardous vapours. Can be released in case of fire: Ammonia (NH₃), Oxocarbons (CO, CO₂), Nitrogen oxides (NO_x), metal oxide smoke.

5.3. Advice for firefighters

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

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.

Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Provide adequate ventilation. Do not inhale vapours and spray mist. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up**For containment**

Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

Safety Data Sheet

according to UK REACH Regulation

Silver gel

Revision date: 02.11.2022

Product code: 0211

Page 4 of 14

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

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 local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Do not inhale vapours and spray mist. Avoid contact with skin, eyes and clothes.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

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, drink, smoke, sniff.

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

The regulations of the Ordinance on Hazardous Substances with its respective technical rules (TRGS 510) have to be respected. Don't store avec oxidation reagents.

7.3. Specific end use(s)

Metal surface treatment products

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|-----------|----------------------------------|-----|-------------------|-----------|---------------|--------|
| 7664-41-7 | Ammonia, anhydrous | 25 | 18 | | TWA (8 h) | WEL |
| | | 35 | 25 | | STEL (15 min) | WEL |
| 57-55-6 | Propane-1,2-diol, particulates | - | 10 | | TWA (8 h) | WEL |
| - | Silver (soluble compounds as Ag) | - | 0.01 | | TWA (8 h) | WEL |
| 1310-73-2 | Sodium hydroxide | - | 2 | | STEL (15 min) | WEL |

Safety Data Sheet

according to UK REACH Regulation

Silver gel

Revision date: 02.11.2022

Product code: 0211

Page 5 of 14

DNEL/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|--------------------------|------------------------------------|----------------|----------|------------------------|
| 57-55-6 | propylene glycol; propane-1,2-diol | | | |
| Worker DNEL, long-term | | inhalation | systemic | 168 mg/m ³ |
| Worker DNEL, long-term | | inhalation | local | 10 mg/m ³ |
| Consumer DNEL, long-term | | dermal | systemic | 213 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 50 mg/m ³ |
| Consumer DNEL, long-term | | oral | systemic | 85 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | local | 10 mg/m ³ |
| 1310-73-2 | sodium hydroxide; caustic soda | | | |
| Worker DNEL, acute | | dermal | local | < 2 % |
| Worker DNEL, long-term | | inhalation | systemic | 2,1 mg/m ³ |
| Worker DNEL, long-term | | inhalation | local | 1 mg/m ³ |
| Consumer DNEL, acute | | inhalation | local | 2,5 mg/m ³ |
| Consumer DNEL, long-term | | inhalation | systemic | 5,7 mg/m ³ |
| 1336-21-6 | ammonia | | | |
| Worker DNEL, acute | | dermal | systemic | 6,8 mg/kg bw/day |
| Worker DNEL, long-term | | dermal | systemic | 6,8 mg/kg bw/day |
| Worker DNEL, acute | | inhalation | systemic | 47,6 mg/m ³ |
| Worker DNEL, acute | | inhalation | local | 36 mg/m ³ |
| Worker DNEL, long-term | | inhalation | systemic | 47,6 mg/m ³ |
| Worker DNEL, long-term | | inhalation | local | 14 mg/m ³ |
| Consumer DNEL, acute | | dermal | systemic | 68 mg/kg bw/day |
| Consumer DNEL, long-term | | dermal | systemic | 68 mg/kg bw/day |
| Consumer DNEL, acute | | inhalation | systemic | 23,8 mg/m ³ |
| Consumer DNEL, acute | | inhalation | local | 7,2 mg/m ³ |
| Consumer DNEL, long-term | | inhalation | systemic | 23,8 mg/m ³ |
| Consumer DNEL, long-term | | inhalation | local | 2,8 mg/m ³ |
| Consumer DNEL, acute | | oral | systemic | 6,8 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 6,8 mg/kg bw/day |

Safety Data Sheet

according to UK REACH Regulation

Silver gel

Revision date: 02.11.2022

Product code: 0211

Page 6 of 14

PNEC values

| CAS No | Substance | Value |
|---------------------------|--|--------------|
| Environmental compartment | | |
| 57-55-6 | propylene glycol; propane-1,2-diol | |
| | Freshwater | 260 mg/l |
| | Freshwater (intermittent releases) | 183 mg/l |
| | Marine water | 26 mg/l |
| | Marine water (intermittent releases) | 183 mg/l |
| | Freshwater sediment | 572 mg/kg |
| | Marine sediment | 57,2 mg/kg |
| | Micro-organisms in sewage treatment plants (STP) | 20000 mg/l |
| | Soil | 50 mg/kg |
| 1310-73-2 | sodium hydroxide; caustic soda | |
| | Freshwater | 6,4 mg/l |
| | Freshwater (intermittent releases) | 3,1 mg/l |
| | Marine water | 0,64 mg/l |
| | Freshwater sediment | 23 mg/kg |
| | Marine sediment | 2,3 mg/kg |
| | Micro-organisms in sewage treatment plants (STP) | 51 mg/l |
| | Soil | 0,853 mg/kg |
| 5949-29-1 | Citric acid, monohydrate | |
| | Freshwater | 0,44 mg/l |
| | Marine water | 0,044 mg/l |
| | Freshwater sediment | 3,46 mg/kg |
| | Marine sediment | 34,6 mg/kg |
| | Micro-organisms in sewage treatment plants (STP) | > 1000 mg/l |
| | Soil | 33,1 mg/kg |
| 7761-88-8 | Silver nitrate | |
| | Freshwater | 0,00004 mg/l |
| | Marine water | 0,00086 mg/l |
| | Freshwater sediment | 438 mg/kg |
| | Marine sediment | 438 mg/kg |
| | Micro-organisms in sewage treatment plants (STP) | 0,025 mg/l |
| | Soil | 0,794 mg/kg |
| 1336-21-6 | ammonia | |
| | Freshwater | 0,0011 mg/l |
| | Freshwater (intermittent releases) | 0,0068 mg/l |
| | Marine water | 0,0011 mg/l |
| | Marine water (intermittent releases) | 0,0068 mg/l |

8.2. Exposure controls

Safety Data Sheet

according to UK REACH Regulation

Silver gel

Revision date: 02.11.2022

Product code: 0211

Page 7 of 14



Appropriate engineering controls

Ensure adequate ventilation of the storage area.

Individual protection measures, such as personal protective equipment

Eye/face protection

Tight sealing protective goggles (DIN EN 166).

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Suitable gloves type: NBR (Nitrile rubber).

Thickness of the glove material: > 0,5 mm

Breakthrough time: > 120 min

Skin protection

Use of protective clothing.

Respiratory protection

In exceptional situations (e.g. accidental release of substances, occupational exposure limits exceeded), respiratory protection must be worn.

Respirator: gas filter K, identification colour green

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------|------------|
| Physical state: | Gel |
| Colour: | colourless |
| Odour: | stinging |

Changes in the physical state

| | |
|---|----------------|
| Melting point/freezing point: | not determined |
| Boiling point or initial boiling point and boiling range: | not determined |
| Flash point: | not determined |

Flammability

| | |
|---------------|----------------|
| Solid/liquid: | not applicable |
| Gas: | not applicable |

Explosive properties

The product is not: Explosive.

| | |
|-------------------------|----------------|
| Lower explosion limits: | not determined |
| Upper explosion limits: | not determined |

Self-ignition temperature

| | |
|----------------------------|----------------|
| Solid: | not applicable |
| Gas: | not applicable |
| Decomposition temperature: | not determined |

Safety Data Sheet

according to UK REACH Regulation

Silver gel

Revision date: 02.11.2022

Product code: 0211

Page 8 of 14

| | |
|---|----------------|
| pH-Value (at 25 °C): | 11 |
| Water solubility: | easily soluble |
| Solubility in other solvents not determined | |
| Partition coefficient n-octanol/water: | not determined |
| Vapour pressure: | not determined |
| Density: | not determined |
| Relative vapour density: | not determined |

9.2. Other information**Information with regard to physical hazard classes**

Oxidizing properties
The product is not: oxidising.

Other safety characteristics

Evaporation rate: not determined

Further Information**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Corrosive to metals. Exothermic reaction with: Strong acid.
When applied over large areas to aluminium, zinc, tin and alloys of these metals, significant quantities of flammable gases (hydrogen) may be released - risk of explosion!

10.4. Conditions to avoid

Avoid high temperatures or direct sunlight.

10.5. Incompatible materials

Oxidizing agent, Hypochlorites, Acids.

10.6. Hazardous decomposition products

Ammonia (NH₃), Nitrogen oxides (NO_x), Oxygen.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

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

Safety Data Sheet

according to UK REACH Regulation

Silver gel

Revision date: 02.11.2022

Product code: 0211

Page 9 of 14

| CAS No | Chemical name | | | | |
|-----------|--------------------------|----------------------|---------|--------------|----------|
| | Exposure route | Dose | Species | Source | Method |
| 5949-29-1 | Citric acid, monohydrate | | | | |
| | oral | LD50 mg/kg 5400 | Mouse | Manufacturer | OECD 401 |
| | dermal | LD50 mg/kg > 2000 | Rat | Manufacturer | OECD 402 |
| 7761-88-8 | Silver nitrate | | | | |
| | oral | LD50 mg/kg >2000 | Rat | Manufacturer | |

Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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.

Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information**12.1. Toxicity**

Harmful to aquatic life with long lasting effects.

Safety Data Sheet

according to UK REACH Regulation

Silver gel

Revision date: 02.11.2022

Product code: 0211

Page 10 of 14

| CAS No | Chemical name | | | | | |
|-----------|--------------------------------|--------------|-----------|---------|--|--------------------------------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 1310-73-2 | sodium hydroxide; caustic soda | | | | | |
| | Acute fish toxicity | LC50 mg/l | 33 - 196 | 96 h | | Manufacturer |
| | Acute crustacea toxicity | EC50 mg/l | 40,4 | 48 h | | Manufacturer |
| 5949-29-1 | Citric acid, monohydrate | | | | | |
| | Acute fish toxicity | LC50 | 440 mg/l | 96 h | Leuciscus idus (golden orfe) | Manufacturer OECD 203 |
| | Acute crustacea toxicity | EC50 mg/l | 1535 | 48 h | Daphnia magna (Big water flea) | Manufacturer |
| 7761-88-8 | Silver nitrate | | | | | |
| | Fish toxicity | NOEC mg/l | 0,13 | 28 d | Menidia beryllina (Inland silverside) | Manufacturer |
| | Algae toxicity | NOEC mg/l | 0,0012 | 14 d | Champia parvula | Manufacturer |
| | Crustacea toxicity | NOEC mg/l | 0,001 | 7 d | Ceriodaphnia reticulata | Manufacturer |
| 1336-21-6 | ammonia | | | | | |
| | Acute fish toxicity | LC50 mg/l | 0,89 | 96 h | Oncorhynchus mykiss (Rainbow trout) | Manufacturer |
| | Acute crustacea toxicity | EC50 | 101 mg/l | 48 h | Daphnia magna (Big water flea) | Manufacturer ASTM E 729-80 |
| | Fish toxicity | NOEC mg/l | 0,06 | 27 d | Ictalurus punctatus (Channel Catfish) | Manufacturer |
| | Crustacea toxicity | NOEC mg/l | 0,79 | 4 d | Daphnia magna (Big water flea) | Manufacturer OPPTS 850.1300 |

12.2. Persistence and degradability

The product has not been tested.

| CAS No | Chemical name | | | |
|-----------|---|-------|----|--------|
| | Method | Value | d | Source |
| | Evaluation | | | |
| 5949-29-1 | Citric acid, monohydrate | | | |
| | OECD 301B | 97 % | 28 | |
| | Readily biodegradable (according to OECD criteria). | | | |

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|-----------|---------------|---------|
| 1336-21-6 | ammonia | -1,38 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|-----------|----------------|-----|----------------------------------|--------|
| 7761-88-8 | Silver nitrate | 70 | Cyprinus carpio (Common Carp) | |

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

Safety Data Sheet

according to UK REACH Regulation

Silver gel

Revision date: 02.11.2022

Product code: 0211

Page 11 of 14

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

The product has not been tested.

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

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

060313 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the MFSU of salts and their solutions and metallic oxides; solid salts and solutions containing heavy metals; hazardous waste

List of Wastes Code - used product

060313 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the MFSU of salts and their solutions and metallic oxides; solid salts and solutions containing heavy metals; hazardous waste

List of Wastes Code - contaminated packaging

060313 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the MFSU of salts and their solutions and metallic oxides; solid salts and solutions containing heavy metals; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information**Land transport (ADR/RID)**

| | |
|--|-------------------------------|
| 14.1. UN number or ID number: | UN 1719 |
| 14.2. UN proper shipping name: | CAUSTIC ALKALI LIQUID, N.O.S. |
| 14.3. Transport hazard class(es): | 8 |
| 14.4. Packing group: | II |
| Hazard label: | 8 |



| | |
|--------------------------|-----|
| Classification code: | C5 |
| Special Provisions: | 274 |
| Limited quantity: | 1 L |
| Excepted quantity: | E2 |
| Transport category: | 2 |
| Hazard No: | 80 |
| Tunnel restriction code: | E |

Inland waterways transport (ADN)

| | |
|--|-------------------------------|
| 14.1. UN number or ID number: | UN 1719 |
| 14.2. UN proper shipping name: | CAUSTIC ALKALI LIQUID, N.O.S. |
| 14.3. Transport hazard class(es): | 8 |
| 14.4. Packing group: | II |

Safety Data Sheet

according to UK REACH Regulation

Silver gel

Revision date: 02.11.2022

Product code: 0211

Page 12 of 14

Hazard label:

8



Classification code:

C5

Special Provisions:

274

Limited quantity:

1 L

Excepted quantity:

E2

Marine transport (IMDG)

14.1. UN number or ID number:

UN 1719

14.2. UN proper shipping name:

CAUSTIC ALKALI LIQUID, N.O.S.

14.3. Transport hazard class(es):

8

14.4. Packing group:

II

Hazard label:

8



Special Provisions:

274

Limited quantity:

1 L

Excepted quantity:

E2

EmS:

F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:

UN 1719

14.2. UN proper shipping name:

CAUSTIC ALKALI LIQUID, N.O.S.

14.3. Transport hazard class(es):

8

14.4. Packing group:

II

Hazard label:

8



Special Provisions:

A3 A803

Limited quantity Passenger:

0.5 L

Passenger LQ:

Y840

Excepted quantity:

E2

IATA-packing instructions - Passenger:

851

IATA-max. quantity - Passenger:

1 L

IATA-packing instructions - Cargo:

855

IATA-max. quantity - Cargo:

30 L

14.6. Special precautions for user

Warning: 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

 Information according to 2012/18/EU
(SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

Safety Data Sheet

according to UK REACH Regulation

Silver gel

Revision date: 02.11.2022

Product code: 0211

Page 13 of 14

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

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

Abbreviations and acronyms

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%

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification | Classification procedure |
|-------------------------|--------------------------|
| Met. Corr. 1; H290 | On basis of test data |
| Skin Corr. 1B; H314 | Calculation method |
| Eye Dam. 1; H318 | Calculation method |
| Aquatic Chronic 3; H412 | Calculation method |

Safety Data Sheet

according to UK REACH Regulation

Silver gel

Revision date: 02.11.2022

Product code: 0211

Page 14 of 14

Relevant H and EUH statements (number and full text)

| | |
|------|---|
| H272 | May intensify fire; oxidiser. |
| H290 | May be corrosive to metals. |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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