

SAFETY DATA SHEET

AGS 65

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

1.1. Product identifier

Trade name

AGS 65

Product no.

3665

Unique formula identifier (UFI)

H860-909Q-F00W-WX87

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

Relevant identified uses of the substance or mixture

Graffiti shadow remover

Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet

Company and address

Trion Tensid AB

Svederusgatan 1-3

SE-75450 Uppsala

Sweden

+46 18 15 61 90

www.trion.se

Contact person

William Stomilovic

E-mail

info@trion.se

Revision

12/05/2023

SDS Version

6.0

Date of previous version

30/09/2022 (5.0)

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service).

See section 4 "First aid measures".

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Skin Corr. 1; H314, Causes severe skin burns and eye damage.

Eye Dam. 1; H318, Causes serious eye damage.

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

Hazard statement(s)

Causes severe skin burns and eye damage. (H314)

Precautionary statement(s)

General

-

Prevention

Do not breathe vapour/mist. (P260)

Wear eye protection/protective gloves/protective clothing. (P280)

Response

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. (P305+P351+P338)

Immediately call a POISON CENTER/doctor. (P310)

Storage

-

▼ Disposal

Dispose of contents/container in accordance with local regulation. (P501)

Hazardous substances

potassium hydroxide

hexyl D-glucoside

2-aminoethanol

Additional labelling

EUH066, Repeated exposure may cause skin dryness or cracking.

UFI: H860-909Q-F00W-WX87

2.3. Other hazards

Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.1. ▼ Substances

Not applicable. This product is a mixture.

3.2. ▼ Mixtures

| Product/substance | Identifiers | % w/w | Classification | Note |
|---------------------------|---|--------|----------------|------|
| 2-(2-ethoxyethoxy)ethanol | CAS No.: 111-90-0 EC No.: 203-919-7 UK-REACH: Index No.: | 40-60% | | |

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

| | | | | |
|--|---|--------|---|-----|
| potassium hydroxide | CAS No.: 1310-58-3 EC No.: 215-181-3 UK-REACH: Index No.: 019-002-00-8 | 10-15% | Acute Tox. 4, H302 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Corr. 1A, H314 Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Irrit. 2, H319 (SCL: 0.50 %) | |
| 1-methoxy-2-propanol monopropylene glycol methyl ether | CAS No.: 107-98-2 EC No.: 203-539-1 UK-REACH: Index No.: 603-064-00-3 | 5-10% | Flam. Liq. 3, H226 STOT SE 3, H336 | [1] |
| 2,2',2''-nitrilotriethanol | CAS No.: 102-71-6 EC No.: 203-049-8 UK-REACH: Index No.: | 5-10% | | |
| hexyl D-glucoside | CAS No.: 54549-24-5 EC No.: 259-217-6 UK-REACH: Index No.: | 3-5% | Eye Dam. 1, H318 | |
| Alcohols, C9-C11, Ethoxylated | CAS No.: 68439-46-3 EC No.: 614-482-0 UK-REACH: Index No.: | 3-5% | Eye Irrit. 2, H319 | |
| 2-aminoethanol | CAS No.: 141-43-5 EC No.: 205-483-3 UK-REACH: Index No.: 603-030-00-8 | <1% | Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Acute Tox. 4, H332 STOT SE 3, H336 (SCL: 5.00 %) | [1] |

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

[1] European occupational exposure limit.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet.
Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment.

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes with plenty of water or salt water (20-30 °C) for at

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

least 30 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

▼ Ingestion

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns

Not applicable.

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

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

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

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Nitrogen oxides (NO_x)

Carbon oxides (CO / CO₂)

Some metal oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact

The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

Avoid direct contact with spilled substances.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

6.3. ▼ Methods and material for containment and cleaning up

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Because of the danger of self-ignition, any waste from the product, spray mist and soiled rags etc. are to be kept in a fire-proof place in air-tight containers, alternatively the waste is to be burned.

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material

Always store in containers of the same material as the original container.

Storage temperature

4 - 25 Celcius

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. ▼ Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. ▼ Control parameters

potassium hydroxide

Short term exposure limit (15 minutes) (mg/m³): 2

1-methoxy-2-propanol monopropylene glycol methyl ether

Long term exposure limit (8 hours) (ppm): 100

Long term exposure limit (8 hours) (mg/m³): 375

Short term exposure limit (15 minutes) (ppm): 150

Short term exposure limit (15 minutes) (mg/m³): 560

Annotations:

Sk = Can be absorbed through the skin and lead to systemic toxicity.

2-aminoethanol

Long term exposure limit (8 hours) (ppm): 1

Long term exposure limit (8 hours) (mg/m³): 2,5

Short term exposure limit (15 minutes) (ppm): 3

Short term exposure limit (15 minutes) (mg/m³): 7,6

Annotations:

Sk = Can be absorbed through the skin and lead to systemic toxicity.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.

EH40/2005 Workplace exposure limits (Fourth Edition 2020).

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

▼ DNEL

2-(2-ethoxyethoxy)ethanol

| Duration: | Route of exposure: | DNEL: |
|---|--------------------|----------------------|
| Long term – Systemic effects - General population | Dermal | 25 mg/kg bw/day |
| Long term – Systemic effects - Workers | Dermal | 83 mg/kg bw/day |
| Long term – Local effects - General population | Inhalation | 18 mg/m ³ |
| Long term – Local effects - Workers | Inhalation | 30 mg/m ³ |
| Long term – Systemic effects - General population | Inhalation | 37 mg/m ³ |
| Long term – Systemic effects - Workers | Inhalation | 61 mg/m ³ |
| Long term – Systemic effects - General population | Oral | 50 mg/kg bw/day |

2-aminoethanol

| Duration: | Route of exposure: | DNEL: |
|---|--------------------|-------------|
| Long term – Systemic effects - General population | Dermal | 0,24 mg/sqm |
| Long term – Systemic effects - Workers | Dermal | 1 mg/kg/day |
| Long term – Local effects - General population | Inhalation | 2 mg/kbm |
| Long term – Local effects - Workers | Inhalation | 3,3 mg/kbm |
| Long term – Systemic effects - General population | Inhalation | 2 mg/kbm |
| Long term – Systemic effects - Workers | Inhalation | 3,3 mg/kbm |
| Long term – Systemic effects - General population | Oral | 3,75 mg/kg |

hexyl D-glucoside

| Duration: | Route of exposure: | DNEL: |
|---|--------------------|-----------------------|
| Long term – Systemic effects - General population | Dermal | 357000 mg/kg bw/day |
| Long term – Systemic effects - Workers | Dermal | 595000 mg/kg bw/day |
| Long term – Systemic effects - General population | Inhalation | 124 mg/m ³ |
| Long term – Systemic effects - Workers | Inhalation | 420 mg/m ³ |
| Long term – Systemic effects - General population | Oral | 35,7 mg/kg bw/day |

▼ PNEC

2-(2-ethoxyethoxy)ethanol

| Route of exposure: | Duration of Exposure: | PNEC: |
|------------------------|-----------------------|-------------|
| Freshwater | Single | 1,98 mg/L |
| Freshwater sediment | Single | 0,732 mg/kg |
| Marine water | Single | 0,198 mg/L |
| Marine water sediment | Single | 7,32 mg/kg |
| Sewage treatment plant | Single | 500 mg/L |
| Soil | Single | 0,34 mg/kg |

2-aminoethanol

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

| Route of exposure: | Duration of Exposure: | PNEC: |
|------------------------|-----------------------|--------------|
| Freshwater | | 0,085 mg/L |
| Freshwater sediment | | 0,434 mg/kg |
| Intermittent release | | 0,028 mg/L |
| Marine water | | 0,0085 mg/L |
| Marine water sediment | | 0,0434 mg/kg |
| Sewage treatment plant | | 100 mg/L |
| Soil | | 0,0367 mg/kg |

hexyl D-glucoside

| Route of exposure: | Duration of Exposure: | PNEC: |
|------------------------|-----------------------|-------------|
| Freshwater | Single | 0,176 mg/L |
| Freshwater sediment | Single | 0,722 mg/kg |
| Marine water | Single | 0,018 mg/L |
| Marine water sediment | Single | 0,072 mg/kg |
| Sewage treatment plant | Single | 100 mg/L |
| Soil | Single | 0,654 mg/kg |

8.2. ▼ Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

▼ Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally




Wash contaminated clothing before reuse.

Use only UKCA marked protective equipment.

Respiratory Equipment

| Type | Class | Colour | Standards |
|---|-------|--------|-----------|
| Respiratory protection is not needed in the event of adequate | - | - | - |

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

| Type | Class | Colour | Standards |
|--|----------------------|--------------------------|-----------|
| ventilation | | | |
| Skin protection | | | |
| Recommended | Type/Category | Standards | |
| Dedicated work clothing should be worn. | - | - | |
|  | | | |
| Hand protection | | | |
| Material | Glove thickness (mm) | Breakthrough time (min.) | Standards |
| Nitrile | 0,4 | >480 | EN374-2 |
|  | | | |
| Eye protection | | | |
| Type | Standards | | |
| Wear safety glasses with side shields. | EN166 | | |
|  | | | |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Tan

Odour / Odour threshold

Solvent

pH

14

Density (g/cm³)

1.085

Kinematic viscosity

poise cm³/g

Particle characteristics

Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C)

Testing not relevant or not possible due to the nature of the product.

Softening point/range (waxes and pastes) (°C)

Does not apply to liquids.

Boiling point (°C)

Testing not relevant or not possible due to the nature of the product.

Vapour pressure

Testing not relevant or not possible due to the nature of the product.

Relative vapour density

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Testing not relevant or not possible due to the nature of the product.

Decomposition temperature (°C)

Testing not relevant or not possible due to the nature of the product.

Data on fire and explosion hazards

Flash point (°C)

67

▼ Flammability (°C)

230

▼ Auto-ignition temperature (°C)

Testing not relevant or not possible due to the nature of the product.

Lower and upper explosion limit (% v/v)

1.1 - 10.6

Solubility

Solubility in water

Completely soluble

n-octanol/water coefficient

Testing not relevant or not possible due to the nature of the product.

Solubility in fat (g/L)

Testing not relevant or not possible due to the nature of the product.

9.2. Other information

Other physical and chemical parameters

No data available.

▼ Oxidizing properties

Testing not relevant or not possible due to the nature of the product.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

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

▼ Acute toxicity

Product/substance 2-(2-ethoxyethoxy)ethanol

Species: Rat

Route of exposure: Oral

Test: LD50

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

| | |
|--------------------|--|
| Result: | 6031 mg/kg bw · |
| Product/substance | 2-(2-ethoxyethoxy)ethanol |
| Species: | Rabbit |
| Route of exposure: | Dermal |
| Test: | LD50 |
| Result: | 9143 mg/kg bw · |
| Product/substance | 2-(2-ethoxyethoxy)ethanol |
| Species: | Rat |
| Route of exposure: | Inhalation |
| Test: | LD lo |
| Result: | 0,025 mg/L · |
| Product/substance | potassium hydroxide |
| Species: | Rat |
| Route of exposure: | Oral |
| Test: | LD50 |
| Result: | 273 mg/kg · |
| Product/substance | 1-methoxy-2-propanol monopropylene glycol methyl ether |
| Species: | Rat |
| Route of exposure: | Oral |
| Test: | LD50 |
| Result: | 7200 mg/kg |
| Product/substance | 1-methoxy-2-propanol monopropylene glycol methyl ether |
| Species: | Rabbit |
| Route of exposure: | Dermal |
| Test: | LD50 |
| Result: | 13000 mg/kg · |
| Product/substance | 1-methoxy-2-propanol monopropylene glycol methyl ether |
| Species: | Rat |
| Route of exposure: | Inhalation |
| Test: | LC 50 (6 Hours) |
| Result: | 7200 ppm |
| Product/substance | hexyl D-glucoside |
| Species: | Rat |
| Route of exposure: | Oral |
| Test: | LD50 |
| Result: | >2000 mg/kg |
| Product/substance | hexyl D-glucoside |
| Species: | Rabbit |
| Route of exposure: | Dermal |
| Test: | LD50 |
| Result: | >2000 mg/kg |
| Product/substance | Alcohols, C9-C11, Ethoxylated |
| Species: | Rat |

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

| | |
|--------------------|-------------|
| Route of exposure: | Oral |
| Test: | LD50 |
| Result: | >2000 mg/kg |

| | |
|--------------------|----------------|
| Product/substance | 2-aminoethanol |
| Species: | Rat |
| Route of exposure: | Oral |
| Test: | LD50 |
| Result: | 1720 mg/kg |

| | |
|--------------------|----------------|
| Product/substance | 2-aminoethanol |
| Species: | Rabbit |
| Route of exposure: | Dermal |
| Test: | LD50 |
| Result: | 1025 mg/kg |

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes serious eye damage.

▼ Respiratory sensitisation

| | |
|-------------------|--|
| Product/substance | hexyl D-glucoside |
| Species: | Guinea pig |
| Result: | No adverse effect observed (not sensitising) |

▼ Skin sensitisation

| | |
|-------------------|--|
| Product/substance | Alcohols, C9-C11, Ethoxylated |
| Test method: | OECD 406 |
| Species: | Guinea pig |
| Result: | No adverse effect observed (not sensitising) |

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.

11.2. Information on other hazards

▼ Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

▼ Endocrine disrupting properties

Not applicable.

▼ Other information

None known.

SECTION 12: Ecological information

12.1. ▼ Toxicity

| | |
|-------------------|---------------------------|
| Product/substance | 2-(2-ethoxyethoxy)ethanol |
| Species: | Fish |
| Duration: | 96 hours |
| Test: | LC50 |
| Result: | 6010 mg/L · |

| | |
|-------------------|---------------------|
| Product/substance | potassium hydroxide |
| Species: | Fish |
| Duration: | 24 hours |
| Test: | LC50 |
| Result: | 80 mg/L · |

| | |
|-------------------|--|
| Product/substance | 1-methoxy-2-propanol monopropylene glycol methyl ether |
| Species: | Fish |
| Duration: | 96 hours |
| Test: | LC50 |
| Result: | 20800 mg/L |

| | |
|-------------------|--|
| Product/substance | 1-methoxy-2-propanol monopropylene glycol methyl ether |
| Species: | Daphnia |
| Duration: | 96 hours |
| Test: | EC50 |
| Result: | 23300 mg/L |

| | |
|-------------------|--|
| Product/substance | 1-methoxy-2-propanol monopropylene glycol methyl ether |
| Species: | Algae |
| Duration: | 72 hours |
| Test: | IC50 |
| Result: | >1000 mg/L |

| | |
|-------------------|-------------------|
| Product/substance | hexyl D-glucoside |
| Species: | Fish |
| Duration: | 96 hours |
| Test: | LC50 |
| Result: | >100 mg/L · |

| | |
|-------------------|-------------------|
| Product/substance | hexyl D-glucoside |
| Species: | Daphnia |
| Duration: | 48 hours |
| Test: | EC50 |
| Result: | >100 mg/L · |

| | |
|-------------------|-------------------|
| Product/substance | hexyl D-glucoside |
| Species: | Algae |
| Duration: | 72 hours |
| Test: | EC50 |
| Result: | >100 mg/L · |

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

| | |
|-------------------|-------------------------------|
| Product/substance | hexyl D-glucoside |
| Species: | Algae |
| Duration: | 72 hours |
| Test: | NOEC |
| Result: | >100 mg/L |
| Product/substance | hexyl D-glucoside |
| Species: | Daphnia |
| Duration: | 21 days |
| Test: | NOEC |
| Result: | >1-10 mg/L |
| Product/substance | Alcohols, C9-C11, Ethoxylated |
| Species: | Fish |
| Duration: | 96 hours |
| Test: | LC50 |
| Result: | >1 mg/L |
| Product/substance | Alcohols, C9-C11, Ethoxylated |
| Species: | Daphnia |
| Duration: | 48 hours |
| Test: | EC50 |
| Result: | >1 mg/L |
| Product/substance | Alcohols, C9-C11, Ethoxylated |
| Species: | Algae |
| Duration: | 72 hours |
| Test: | EC50 |
| Result: | >1 mg/L |
| Product/substance | 2-aminoethanol |
| Species: | Fish |
| Duration: | 96 hours |
| Test: | LC50 |
| Result: | 125 mg/L |
| Product/substance | 2-aminoethanol |
| Species: | Daphnia |
| Duration: | 48 hours |
| Test: | EC50 |
| Result: | 65 mg/L |
| Product/substance | 2-aminoethanol |
| Species: | Algae |
| Duration: | 72 hours |
| Test: | EC50 |
| Result: | 2,5 mg/L |

12.2. ▼ Persistence and degradability

| | |
|-------------------|---------------------------|
| Product/substance | 2-(2-ethoxyethoxy)ethanol |
| Biodegradable: | Yes |
| Test method: | Oxygen consumption |

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Result: 79,4%

Product/substance potassium hydroxide
Biodegradable: Yes
Test method:
Result:

Product/substance 1-methoxy-2-propanol monopropylene glycol methyl ether
Biodegradable: Yes
Test method: OECD 301 E
Result: 96%

Product/substance hexyl D-glucoside
Biodegradable: Yes
Test method: OECD 301 D
Result: >70%

Product/substance Alcohols, C9-C11, Ethoxylated
Biodegradable: Yes
Test method: OECD 301 D
Result:

Product/substance 2-aminoethanol
Biodegradable: Yes
Test method:
Result:

12.3. ▼ Bioaccumulative potential

Product/substance 2-(2-ethoxyethoxy)ethanol
Test method:
Potential bioaccumulation: No
LogPow: No data available.
BCF: No data available.
Other information:

Product/substance potassium hydroxide
Test method:
Potential bioaccumulation: No
LogPow: -1,3800
BCF: No data available.
Other information:

Product/substance 1-methoxy-2-propanol monopropylene glycol methyl ether
Test method:
Potential bioaccumulation: No
LogPow: <3
BCF: No data available.
Other information:

Product/substance hexyl D-glucoside
Test method:
Potential bioaccumulation: No
LogPow: No data available.

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

BCF: No data available.
Other information:

Product/substance Alcohols, C9-C11, Ethoxylated
Test method:
Potential bioaccumulation: No
LogPow: No data available.
BCF: No data available.
Other information:

Product/substance 2-aminoethanol
Test method:
Potential bioaccumulation: No
LogPow: -1,91
BCF: No data available.
Other information:

12.4. ▼ Mobility in soil

1-methoxy-2-propanol monopropylene glycol methyl ether
LogKoc = 1.699, High mobility potential.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. ▼ Endocrine disrupting properties

Not applicable.

12.7. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. ▼ Waste treatment methods

Product is covered by the regulations on hazardous waste.

HP 8 – Corrosive

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

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

After dilution with water, small quantities are permitted to go to water treatment plants. Empty packages and product residues must be handled in an environmentally correct manner according to applicable laws and provisions. The company is affiliated to REPA. Do not attempt to refill or clean the package.

EWC code

20 01 13* Solvents




Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

| | 14.1 UN / ID | 14.2 UN proper shipping name | 14.3 Hazard class(es) | 14.4 PG* | 14.5 Env** | Other information: |
|-----|-----------------|---------------------------------|--|-------------|---------------|---|
| ADR | UN1814 | POTASSIUM HYDROXIDE SOLUTION | Transport hazard class: 8 Label: 8 Classification code: C5 | II | No | Limited quantities: 1 L Tunnel restriction |

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

| | 14.1 UN / ID | 14.2 UN proper shipping name | 14.3 Hazard class(es) | 14.4 PG* | 14.5 Env** | Other information: |
|------|-----------------|---------------------------------|---|-------------|---------------|--|
| | | |  | | | code: (E) See below for additional information. |
| IMDG | UN1814 | POTASSIUM HYDROXIDE SOLUTION | Transport hazard class: 8 Label: 8 Classification code: C5  | II | No | Limited quantities: 1 L EmS: F-A S-B See below for additional information. |
| IATA | UN1814 | POTASSIUM HYDROXIDE SOLUTION | Transport hazard class: 8 Label: 8 Classification code: C5  | II | No | See below for additional information. |

* Packing group

** Environmental hazards

Additional information

ADR / See Table A, Section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

This product is within scope of the regulations of transport of dangerous goods.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

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

Restrictions for application

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

Not applicable.

Additional information

Not applicable.

Sources

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

The Management of Health and Safety at Work Regulations 1999.
The Health and Safety at Work etc. Act 1974 Regulations 2013.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.
Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.
Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

15.2. Chemical safety assessment

No

SECTION 16: Other information

▼ Full text of H-phrases as mentioned in section 3

H226, Flammable liquid and vapour.
H302, Harmful if swallowed.
H312, Harmful in contact with skin.
H314, Causes severe skin burns and eye damage.
H315, Causes skin irritation.
H318, Causes serious eye damage.
H319, Causes serious eye irritation.
H332, Harmful if inhaled.
H336, May cause drowsiness or dizziness.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

RRN = REACH Registration Number

SCL = A specific concentration limit

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

The classification of the substance/mixture in regard of skin corrosion and serious eye damage is based on the pH-criterion given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

▼ The safety data sheet is validated by

RO

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

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