



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878, and
Regulation (EC) No. 1272/2008

Revision date 21-Mar-2024

Revision Number 1

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

1.1. Product identifier

Product Code(s) 1301; 1303; 1304; 1304-1; 1325; 1350

Product Name Tergazyme

Unique Formula Identifier (UFI) 0S90-10CR-S00Y-G8GH

Synonyms None

Pure substance/mixture Mixture

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

Recommended use Cleaning agent; Detergent

Uses advised against Do not mix with other detergents unless otherwise specified

1.3. Details of the supplier of the safety data sheet

Supplier

Alconox Inc.
30 Glenn St., Suite 309
White Plains, NY 10603 USA
914-948-4040

For further information, please contact

E-mail address cleaning@alconox.com

1.4. Emergency telephone number

Emergency telephone ChemTel Inc.: North America: 1-888-255-3924
International: +1-813-248-0573

Emergency telephone - §45 - (EC)1272/2008

Europe 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

| | |
|-----------------------|---------------------|
| Acute toxicity - Oral | Category 4 - (H302) |
| Skin irritation | Category 2 - (H315) |
| Eye irritation | Category 2 - (H319) |

2.2. Label elements

Contains Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts; Tetrasodium EDTA

**Signal word**

Warning

Hazard statements

H302 - Harmful if swallowed.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

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

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

P280 - Wear protective gloves, eye protection and face protection.

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

P321 - Specific treatment (see information on this label).

P501 - Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable.

P337 + P313 - If eye irritation persists: Get medical advice/attention.

Additional information

This product requires tactile warnings if supplied to the general public.

2.3. Other hazards**Other hazards** No information available.**PBT & vPvB** None known**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable

3.2 Mixtures

| Chemical name | Weight-% | REACH registration number | EC No (EU Index No) | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) | Notes |
|--|----------|---------------------------|--------------------------|--|------------------------------------|----------|----------------------|-------|
| Sodium bicarbonate 144-55-8 | 45-50 | No data available | 205-633-8 | [C] | - | - | - | - |
| Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts 68081-81-2 | 10-15 | - | 268-356-1 | Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335) | - | - | - | - |
| Sodium carbonate 497-19-8 | 7-13 | No data available | 207-838-8 (011-005-00-2) | Eye Irrit. 2 (H319) | - | - | - | - |
| Tetrasodium EDTA 64-02-8 | 0.1-1 | No data available | 200-573-9 (607-428-00-2) | Acute Tox. 4 (H302) Eye Dam. 1 (H318) | - | - | - | - |

| | | | | | | | | |
|-------------------------|-------|----------------------|-----------------------------|--|---|---|---|---|
| Subtilisin 9014-01-1 | 0.042 | No data available | 232-752-2 (647-012-00-8) | Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Resp. Sens. 1 (H334) STOT SE 3 (H335) | - | - | - | - |
|-------------------------|-------|----------------------|-----------------------------|--|---|---|---|---|

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

[C] - Components with occupational exposure limits and/or biological occupational exposure limits requiring monitoring

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATE_{mix}) for classifying a mixture based on its components

| Chemical name | Oral LD50 mg/kg | Dermal LD50 mg/kg | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapour - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|--------------------------------|-----------------|-------------------|---|---|---|
| Sodium bicarbonate 144-55-8 | 4220 | 2002 | No data available | No data available | No data available |
| Sodium carbonate 497-19-8 | 4090 | 2002 | 1.15 | No data available | No data available |
| Tetrasodium EDTA 64-02-8 | 1658 | No data available | No data available | No data available | No data available |
| Subtilisin 9014-01-1 | 3700 | No data available | No data available | No data available | No data available |

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---|---|
| General advice | Show this safety data sheet to the doctor in attendance. |
| Inhalation | Remove to fresh air. Get medical attention immediately if symptoms occur. |
| Eye contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists. |
| Skin contact | Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists. |
| Ingestion | Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a doctor. |
| Self-protection of the first aider | Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8). |

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

| | |
|----------------------------|---|
| Symptoms | May cause redness and tearing of the eyes. Burning sensation. |
| Effects of Exposure | No information available. |

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

Note to doctors Treat symptomatically.

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

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical No information available.

Hazardous combustion products Carbon oxides. Sodium oxides.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

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

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required.

Other information Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches and waterways.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information See section 13 for more information

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Advice on safe handling Avoid breathing dusts or mists. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when

using this product. Take off contaminated clothing and wash it before reuse.

General hygiene considerations Avoid breathing dusts or mists. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

Storage class (TRGS 510) LGK 11.

7.3. Specific end use(s)

Specific use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

| Chemical name | European Union | Austria | Belgium | Bulgaria | Croatia |
|--------------------------------|--|---|---|--|--|
| Subtilisin 9014-01-1 | - | - | - | - | TWA-GVI: 0.00004 mg/m ³ ; Sk RS |
| Chemical name | Cyprus | Czech Republic | Denmark | Estonia | Finland |
| Sodium bicarbonate 144-55-8 | - | TWA: 5 mg/m ³ ; Ceiling: 10 mg/m ³ ; | - | - | - |
| Sodium carbonate 497-19-8 | - | TWA: 5 mg/m ³ ; Ceiling: 10 mg/m ³ ; | - | - | - |
| Subtilisin 9014-01-1 | - | - | Ceiling: 0.00006 mg/m ³ ; | TWA: 1 glycine unit/m ³ ; STEL: 3 glycine unit/m ³ ; S | - |
| Chemical name | France | Germany TRGS | Germany DFG | Greece | Hungary |
| Subtilisin 9014-01-1 | - | - | RS | - | - |
| Chemical name | Ireland | Italy MDLPS | Italy AIDII | Latvia | Lithuania |
| Sodium bicarbonate 144-55-8 | - | - | - | TWA: 5 mg/m ³ ; | - |
| Subtilisin 9014-01-1 | TWA: 0.00006 mg/m ³ ; STEL: 0.00006 mg/m ³ ; | - | Ceiling: 0.00006 mg/m ³ ; | - | - |
| Chemical name | Portugal | Romania | Slovakia | Slovenia | Spain |
| Sodium carbonate 497-19-8 | - | TWA: 1 mg/m ³ ; STEL: 3 mg/m ³ ; | - | - | - |
| Subtilisin 9014-01-1 | Ceiling (VLE-CM): 0.00006 mg/m ³ ; | - | - | - | STEL (VLA-EC): 0.00006 mg/m ³ ; S |
| Chemical name | Sweden | | Switzerland | | United Kingdom |
| Subtilisin 9014-01-1 | TLV-NGV: 1 glycine unit/m ³ ; STEL (Bindande KGV): 3 glycine unit/m ³ ; S | | STEL-KZGW: 0.00006 mg/m ³ ; S | | TWA: 0.00004 mg/m ³ ; STEL: 0.00012 mg/m ³ ; poS |

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers

| Chemical name | Oral | Dermal | Inhalation |
|-----------------------------|------|--------|--|
| Tetrasodium EDTA 64-02-8 | - | - | 1.5 mg/m ³ [4] [6] 3 mg/m ³ [4] [7] 1.5 mg/m ³ [5] [6] 3 mg/m ³ [5] [7] |

Notes

| | |
|-----|--------------------------|
| [4] | Systemic health effects. |
| [6] | Long term. |
| [7] | Short term. |

Derived No Effect Level (DNEL) - General Public

| Chemical name | Oral | Dermal | Inhalation |
|-----------------------------|---|--------|--|
| Tetrasodium EDTA 64-02-8 | 25 mg/kg bw/day [4] [6] | - | 0.6 mg/m ³ [5] [6] 1.2 mg/m ³ [5] [7] |
| Subtilisin 9014-01-1 | 2.86 mg/kg bw/day [4] [6] 17.28 mg/kg bw/day [4] [7] | - | - |

Notes

| | |
|-----|--------------------------|
| [4] | Systemic health effects. |
| [6] | Long term. |
| [7] | Short term. |

Predicted No Effect Concentration (PNEC)

| Chemical name | Freshwater | Freshwater (intermittent release) | Marine water | Marine water (intermittent release) | Air |
|-----------------------------|------------|--------------------------------------|--------------|--|-----|
| Tetrasodium EDTA 64-02-8 | 2.83 mg/L | 1 mg/L | 0.283 mg/L | 1 mg/L | - |
| Subtilisin 9014-01-1 | 1.7 µg/L | 0.9 µg/L | 0.17 µg/L | - | - |

| Chemical name | Freshwater sediment | Marine sediment | Sewage treatment | Soil | Food chain |
|-----------------------------|------------------------|-----------------|------------------|-------------------|------------|
| Tetrasodium EDTA 64-02-8 | - | - | 50 mg/L | 1.1 mg/kg soil dw | - |
| Subtilisin 9014-01-1 | - | - | 65000 µg/L | 568 µg/kg soil dw | - |

8.2. Exposure controls**Engineering controls**

Showers
Eyewash stations
Ventilation systems.

Personal protective equipment

| | |
|--|--|
| Eye/face protection | Eye protection must conform to standard EN 166. If splashes are likely to occur, wear safety glasses with side-shields. |
| Hand protection | Gloves must conform to standard EN 374. Wear suitable gloves. Impervious gloves. |
| Skin and body protection | Wear suitable protective clothing. Long sleeved clothing. |
| Respiratory protection | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. |
| Environmental exposure controls | No information available. |

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

| | |
|------------------------|--------------------------|
| Appearance | Powder |
| Physical state | Solid |
| Colour | Off-white |
| Odour | No information available |
| Odour threshold | No information available |

| Property | Values | Remarks • Method |
|---|------------------|-------------------------|
| Melting point / freezing point | | No data available |
| Boiling point or initial boiling point and boiling range | | No data available |
| Flammability | | No data available |
| Lower and upper explosion limit/flammability limit | | |
| Upper explosion limit | | No data available |
| Lower explosion limit | | No data available |
| Flash point | | No data available |
| Autoignition temperature | | No data available |
| Decomposition temperature | | No data available |
| SADT (°C) | | No data available |
| pH | 9.5 | solution (1 %) |
| pH (as aqueous solution) | | No data available |
| Kinematic viscosity | | No data available |
| Dynamic viscosity | | No data available |
| Water solubility | | No data available |
| Solubility | Soluble in water | |
| Partition coefficient n-octanol/water (log value) | | No data available |
| Vapour pressure | | No data available |
| Density and/or relative density | | No data available |
| Bulk density | | No data available |
| Liquid Density | | No data available |
| Relative vapour density | | No data available |
| Particle characteristics | | |
| Particle Size | | No data available |
| Particle Size Distribution | | No data available |

9.2. Other information

| | |
|-------------------------|--------------------------|
| Molecular weight | No information available |
| VOC content | 0% |
| Softening point | No information available |

9.2.1. Information with regards to physical hazard classes

Explosives

Explosive properties

No information available

Oxidising properties

No information available

9.2.2. Other safety characteristics

No information available

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

None under normal use conditions.

10.2. Chemical stability**Stability**

Stable under normal conditions.

Explosion data**Sensitivity to mechanical impact** None.**Sensitivity to static discharge** None.**10.3. Possibility of hazardous reactions****Possibility of hazardous reactions** None under normal processing.**10.4. Conditions to avoid****Conditions to avoid**

None known based on information supplied.

10.5. Incompatible materials**Incompatible materials**

Strong acids. Strong bases. Strong oxidising agents.

10.6. Hazardous decomposition products**Hazardous decomposition products** None known based on information supplied.**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Information on likely routes of exposure****Product Information****Inhalation**

Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.

Eye contact

Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.

Skin contact

Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).

Ingestion

Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Harmful if swallowed. (based on components).

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. May cause redness and tearing of the eyes.

Acute toxicity Harmful if swallowed.

Numerical measures of toxicity

The following ATE values have been calculated for the mixture:

ATEmix (oral) 1,968.60 mg/kg
ATEmix (dermal) 3,440.40 mg/kg

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--------------------|----------------------|-----------------------|--------------------------------------|
| Sodium bicarbonate | = 4220 mg/kg (Rat) | > 2000 mg/kg (Rat) | - |
| Sodium carbonate | = 4090 mg/kg (Rat) | >2000 mg/kg (Rabbit) | = 2300 mg/m ³ (Rat) 2 h |
| Tetrasodium EDTA | = 1658 mg/kg (Rat) | - | - |
| Subtilisin | = 3700 mg/kg (Rat) | - | - |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Causes skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties Based on available data, the classification criteria are not met

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|--------------------------------|----------------------|--|----------------------------|--|
| Sodium bicarbonate 144-55-8 | - | LC50: 8250 - 9000mg/L (96h, <i>Lepomis macrochirus</i>) | - | EC50: =2350mg/L (48h, <i>Daphnia magna</i>) |
| Sodium carbonate 497-19-8 | - | LC50: =300mg/L (96h, <i>Lepomis macrochirus</i>) LC50: 310 - 1220mg/L (96h, <i>Pimephales promelas</i>) | - | EC50: =265mg/L (48h, <i>Daphnia magna</i>) |
| Tetrasodium EDTA 64-02-8 | - | LC50: =41mg/L (96h, <i>Lepomis macrochirus</i>) LC50: =59.8mg/L (96h, <i>Pimephales promelas</i>) | - | - |

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

| Chemical name | Partition coefficient |
|---------------|-----------------------|
| Subtilisin | -3.1 |

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment Based on available data, the classification criteria are not met.

| Chemical name | PBT and vPvB assessment |
|--------------------------------|-------------------------|
| Sodium bicarbonate 144-55-8 | Not PBT/vPvB |
| Sodium carbonate 497-19-8 | Not PBT/vPvB |
| Tetrasodium EDTA 64-02-8 | Not PBT/vPvB |
| Subtilisin 9014-01-1 | Not PBT/vPvB |

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Other adverse effects No information available.

PMT or vPvM properties Based on available data, the classification criteria are not met.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--|--|
| Waste from residues/unused products | Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
| Contaminated packaging | Do not reuse empty containers. |
| Waste codes / waste designations according to EWC / AVV | According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used. |

SECTION 14: Transport information

| | |
|---|--------------------------|
| IATA | Not regulated |
| 14.1 UN number or ID number | Not regulated |
| 14.2 | |
| 14.3 Transport hazard class(es) | Not regulated |
| 14.4 Packing group | Not regulated |
| 14.5 Environmental hazards | Not applicable |
| 14.6 Special precautions for user | |
| Special Provisions | None |
| IMDG | Not regulated |
| 14.1 UN number or ID number | Not regulated |
| 14.2 | |
| 14.3 Transport hazard class(es) | Not regulated |
| 14.4 Packing group | Not regulated |
| 14.5 Environmental hazards | Not applicable |
| Marine pollutant indicator | NP |
| 14.6 Special precautions for user | |
| Special Provisions | None |
| 14.7 Maritime transport in bulk according to IMO instruments | No information available |
| RID | Not regulated |
| 14.1 UN number or ID number | Not regulated |
| 14.2 UN proper shipping name | Not regulated |
| 14.3 Transport hazard class(es) | Not regulated |
| 14.4 Packing group | Not applicable |
| 14.5 Environmental hazards | Not applicable |
| 14.6 Special precautions for user | |
| Special Provisions | None |
| ADR | Not regulated |
| 14.1 UN number or ID number | Not regulated |
| 14.2 UN proper shipping name | Not regulated |
| 14.3 Transport hazard class(es) | Not regulated |
| 14.4 Packing group | Not regulated |
| 14.5 Environmental hazards | Not applicable |
| 14.6 Special precautions for user | |
| Special Provisions | None |
| ADN | Not regulated |
| 14.1 UN number or ID number | Not regulated |
| 14.2 UN proper shipping name | Not regulated |
| 14.3 Transport hazard class(es) | Not regulated |

| | |
|-----------------------------------|----------------|
| 14.4 Packing group | Not applicable |
| 14.5 Environmental hazard | Not applicable |
| 14.6 Special precautions for user | |
| Special Provisions | None |

SECTION 15: Regulatory information

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

National regulations

Germany

| | |
|---|-------------------------------------|
| Water hazard class (WGK) | slightly hazardous to water (WGK 1) |
| Chemical Prohibition Ordinance (ChemVerbotsV) | Not applicable |

| | |
|----------|----------------|
| TRGS 905 | Not applicable |
|----------|----------------|

Switzerland

| | |
|--|----------------|
| Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC) SR 814.018 | Not applicable |
| Storage of Hazardous Material | SC 11/13 |
| WPO (GSchV) SR 814.201; WPA (GSchG) SR 814.20 | Class B |
| Major Accidents Ordinance SR 814.012 | Not applicable |

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

| Chemical name | Restricted substance per REACH Annex XVII | Substance subject to authorisation per REACH Annex XIV |
|-----------------------------|---|--|
| Sodium carbonate - 497-19-8 | 75 | - |
| Tetrasodium EDTA - 64-02-8 | 75 | - |
| Subtilisin - 9014-01-1 | 75 | - |

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 2024/590

Not applicable.

EU - Plant Protection Products (1107/2009/EC)

| Chemical name | EU - Plant Protection Products (1107/2009/EC) |
|-------------------------------|---|
| Sodium bicarbonate - 144-55-8 | Plant protection agent |

Explosives Precursors Marketing and Use (2019/1148)

Not applicable

International Inventories

Contact supplier for inventory compliance status

15.2. Chemical safety assessment

Chemical Safety Report

No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of any hazard and/or precautionary statements referred to under Sections 2-15

H302 - Harmful if swallowed

H315 - Causes skin irritation

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 - May cause respiratory irritation

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

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

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

P330 - Rinse mouth

P501 - Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable

P280 - Wear protective gloves, protective clothing, eye protection and face protection

P302 + P352 - IF ON SKIN: Wash with plenty of water and soap

P321 - Specific treatment (see supplemental first aid instructions on this label)

P332 + P313 - If skin irritation occurs: Get medical advice/attention

P362 + P364 - Take off contaminated clothing and wash it before reuse

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

P337 + P313 - If eye irritation persists: Get medical advice/attention

Legend

| | |
|-----------|---|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| AIDII | Italian Association of Industrial Hygienists |
| ADN | Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Europe) |
| ADR | Agreement concerning the International Carriage of Dangerous Goods by Road (Europe) |
| AIIC | Australian Inventory of Industrial Chemicals |
| ATE | Acute Toxicity Estimate |
| ASTM | American Society for the Testing of Materials |
| bar | Biological Reference Values for Chemical Compounds in the Work Area |
| BAT | Biological tolerance values for occupational exposure |
| BEL | Biological exposure limits |
| bw | Body weight |
| Ceiling | Maximum limit value |
| CLP | Classification, Labelling and Packaging Regulation; Regulation (EC) No 1272/2008 |
| CMR | Carcinogen, Mutagen or Reproductive Toxicant |
| DFG | German Research Foundation |
| DOT | Department of Transportation (United States) |
| DSL | Domestic Substances List (Canada) |
| ECHA | European Chemicals Agency |
| EC Number | European Community number |
| EmS | Emergency Schedule |
| ENCS | Existing and New Chemical Substances (Japan) |
| EPA | Environmental Protection Agency |
| EWC | European Waste Codes |

| | |
|---------|---|
| GHS | Globally Harmonized System |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IBC | International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk |
| ICAO | International Civil Aviation Organisation |
| IECSC | Inventory of Existing Chemical Substances in China |
| IMDG | International Maritime Dangerous Goods |
| IMO | International Maritime Organization |
| ISO | International Organisation for Standardisation |
| KECI | Korean Existing Chemicals Inventory |
| LC50 | Lethal Concentration to 50% of a test population |
| LD50 | Lethal Dose to 50% of a test population (Median Lethal Dose) |
| MAL | Measuring Technical Hygienic Air Needs |
| MARPOL | International Convention for the Prevention of Pollution from Ships |
| MDLPS | Ministry of Labour and Social Policy |
| n.o.s. | Not Otherwise Specified |
| NOAEC | No Observed Adverse Effect Concentration |
| NOAEL | No Observed Adverse Effect Level |
| NOELR | No Observable Effect Loading Rate |
| NZIoC | New Zealand Inventory of Chemicals |
| OECD | Organization for Economic Cooperation and Development |
| OEL | Occupational exposure limits |
| PBT | Persistent, Bioaccumulative and Toxic substance |
| PICCS | Philippines Inventory of Chemicals and Chemical Substances |
| PMT | Persistent, Mobile and Toxic |
| PPE | Personal protective equipment |
| QSAR | Quantitative Structure Activity Relationship |
| REACH | Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006) |
| RID | Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe) |
| SADT | Self-Accelerating Decomposition Temperature |
| SAR | Structure-activity relationship |
| SDS | Safety Data Sheet |
| SL | Surface Limit |
| STEL | Short Term Exposure Limit |
| STOT RE | Specific target organ toxicity - Repeated exposure |
| STOT SE | Specific target organ toxicity - Single exposure |
| SVHC | Substance of very high concern |
| TCSI | Taiwan Chemical Substance Inventory |
| TDG | Transport of Dangerous Goods (Canada) |
| TRGS | Technical Rule for Hazardous Substances |
| TSCA | Toxic Substances Control Act (United States) |
| TWA | Time-Weighted Average |
| UN | United Nations |
| VOC | Volatile organic compounds |
| vPvB | Very Persistent and Very Bioaccumulative |
| vPvM | Very Persistent and Very Mobile |
| As | Allergenic substance |
| DS | Dermal Sensitizer |
| Ot | Ototoxicant |
| pOt | Ototoxicant - potential to cause hearing disorders |
| PS | Photosensitiser |
| RS | Respiratory Sensitiser |
| S | Sensitiser |
| poS | Sensitizer - capable of causing occupational asthma |

| | |
|-----|---|
| Sa | Simple asphyxiant |
| Sd | Skin designation |
| pSd | Skin designation - potential for cutaneous absorption |
| Sdv | Skin designation - vacated |
| Sk | Skin notation |
| dSk | Skin notation - danger of cutaneous absorption |
| pSk | Skin notation - potential for cutaneous absorption |

| Classification procedure | |
|---|-----------------------|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used |
| Acute oral toxicity | Calculation method |
| Acute dermal toxicity | Calculation method |
| Acute inhalation toxicity - gas | Calculation method |
| Acute inhalation toxicity - vapour | Calculation method |
| Acute inhalation toxicity - dust/mist | On basis of test data |
| Skin corrosion/irritation | Calculation method |
| Serious eye damage/eye irritation | Calculation method |
| Respiratory sensitisation | Calculation method |
| Skin sensitisation | Calculation method |
| Mutagenicity | Calculation method |
| Carcinogenicity | Calculation method |
| Reproductive toxicity | Calculation method |
| STOT - single exposure | Calculation method |
| STOT - repeated exposure | Calculation method |
| Chronic aquatic toxicity | Calculation method |
| Acute aquatic toxicity | Calculation method |
| Aspiration hazard | Calculation method |
| Ozone | Calculation method |

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
 European Chemicals Agency (ECHA) (ECHA_API)
 Environmental Protection Agency
 Acute Exposure Guideline Level(s) (AEGl(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 Japan GHS Classification
 Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 U.S. National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
 Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
 Organisation for Economic Co-operation and Development Screening Information Data Set
 World Health Organization

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Initial Release.

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Disclaimer

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End of Safety Data Sheet