



SALES & SERVICES

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Safety Data Sheet

1. IDENTIFICATION OF THE PRODUCT AND THE SUPPLIER

1.1 Product identifiers

Product name : CETYLPYRIDINIUM CHLORIDE

1.2 Other means of identification

Hexadecylpyridinium chloride

1.3 Recommended use of the product and restrictions on use

Laboratory chemicals, Manufacture of substances

1.4 Details of supplier of the safety data sheet

Company : AGent Sales & Services Pty Ltd

Street address : 38 May Holman Drive, Bassendean, Western Australia 6054

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1.5 Emergency telephone number

Telephone : 1300 883 844

2. HAZARDS IDENTIFICATION

2.1 GHS Classification

Acute toxicity, Oral (Category 3)

Acute toxicity, Inhalation (Category 2)

Skin irritation (Category 2)

Serious eye damage (Category 1)

Specific target organ toxicity - single exposure (Category 3), Respiratory system

Acute aquatic toxicity (Category 1)

Chronic aquatic toxicity (Category 1)

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

: Danger

Hazard statement(s)

H301

Toxic if swallowed.

H315

Causes skin irritation.

H318

Causes serious eye damage.

H330

Fatal if inhaled.

H335

May cause respiratory irritation.

H410

Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

Prevention

P260

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

P273

Avoid release to the environment.

P280

Wear protective gloves/ eye protection/ face protection.

P284

Wear respiratory protection.

Response

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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 or doctor/ physician.

P391 Collect spillage.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed..

Disposal

P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards

None.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Component | CAS Number | Classification | Concentration (%) |
|--------------------------------------|------------|--|-------------------|
| Cetylpyridinium chloride monohydrate | 6004-24-6 | Acute Tox. 3; Acute Tox. 2; Skin Irrit. 2; Eye Dam. 1; STOT SE 3; Aquatic Acute 1; Aquatic Chronic 1; H301, H315, H318, H330, H335, H410 | ≤100 |

For the full text of the H-Statements mentioned in this section, see Section 16

4. FIRST AID MEASURES**4.1 Description of First Aid measures****General advice**

Contact the Poisons Information Centre (Phone: Australia 131 126; New Zealand 0800 764 766) or consult a doctor/physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a doctor/physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a doctor/physician. Launder clothing before reuse.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a doctor/physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a doctor/physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in Section 2.2 and/or Section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

4.4 First Aid facilities

Eye wash facilities and safety shower should be available.

5. FIRE FIGHTING MEASURES**5.1 Suitable extinguishing media**

Water fog (or if unavailable fine water spray), alcohol-resistant foam, dry agent (carbon dioxide, dry chemical powder).

5.2 Special hazards arising from the chemical

Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas

5.3 Special protective equipment and precautions for fire fighters

Wear self-contained breathing apparatus and suitable protective clothing.

5.4 Hazchem code

2X

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see Section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. If contamination of sewers or waterways has occurred, advise local emergency services. Observe all local and national regulations.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

This material is classified as a Dangerous Goods Class 6.1 Substance by the criteria of the ADG Code and must be stored and handled in accordance with the relevant regulations.

This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits

None allocated for this product.

Biological Limits

None allocated for this product.

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product.

Personal protective equipment (PPE)

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods and environmental factors.

Eye/face protection

Face shield and safety glasses or goggles. See Australian Standards (AS/NZS 1336 & 1337).

Skin protection

Wear protective gloves and protective clothing appropriate for the risk of exposure. See Australian Standards (AS 2161 & 2919 and AS/NZS 2210). Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use. Wash and dry hands.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering

controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. See Australian Standards (AS/NZS 1715 & 1716).

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---------------------------------|
| Appearance: | Form : Flakes Colour : Beige |
| Odour: | No data available |
| Odour Threshold: | No data available |
| pH: | 5.0 – 5.4 @ 20°C |
| Melting Point Range: | 83 - 86°C. |
| Decomposition Temperature: | 234°C |
| Evaporation Rate: | Not applicable |
| Flash Point: | Not applicable |
| Flammability Limits: | Not applicable |
| Specific Gravity: | No data available |
| Vapour Density (air=1): | Not available |
| Vapour Pressure: | Not applicable |
| % Volatiles: | Not applicable |
| Partition coefficient: n-octanol/water | log Pow: 1.71 |
| Solubility in water: | 50 g/L @ 20°C |

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Product is stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

Acids, Acid anhydrides, Acid chlorides, Strong oxidizing agents.

10.6 Hazardous decomposition products

No data available.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - rat - 200 mg/kg

Inhalation: No data available

Skin corrosion/irritation

Skin - rabbit

Result: Severe skin irritation

Serious eye damage/eye irritation

Eyes - rabbit

Result: Severe eye irritation

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity (STOT) - single exposure

Inhalation - May cause respiratory irritation.

Specific target organ toxicity (STOT) - repeated exposure

No data available

Aspiration hazard

No data available

Health Effects

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Eye contact : Causes serious eye irritation.

Skin contact : Causes skin irritation.

Ingestion : Toxic if swallowed. Can cause hypermotility, diarrhea. It may affect behaviour / central nervous system / nervous system (somnia, convulsions, flaccid paralysis). Symptoms include nausea and vomiting.

Inhalation : Fatal if inhaled. Irritating to respiratory system. May cause dyspnea (difficulty breathing or shortness of breath). Symptoms may include coughing.

11.2 Information on possible routes of exposure

The substance can be absorbed into the body by ingestion and by inhalation.

11.3 Additional Information

RTECS: UU5075000

12. ECOLOGICAL INFORMATION**12.1 Ecotoxicity**

Avoid contaminating waterways.

Toxicity to fish:

LC₅₀ (Cyprinus carpio, carp) = 0.01 mg/L, 96h

12.2 Persistence and degradability

Biodegradable.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Other adverse effects

Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS**13.1 Disposal methods and containers**

Ensure waste disposal conforms to relevant local, state and federal authority waste disposal regulations. All empty packaging should be disposed of as unused product.

13.3 Special precautions for landfill or incineration

Contact a specialist disposal company or the local waste regulator for advice. Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to an approved waste facility. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

14. TRANSPORT INFORMATION

Classified as a Dangerous Goods by the criteria of the ADG Code for transport by road or rail
Classified as a Dangerous Goods by the criteria of the IMDG Code for transport by sea
Classified as a Dangerous Goods by the criteria of the IATA Code for transport by air

14.1 UN number

ADG : 2811

IMDG : 2811

IATA : 2811

14.2 Proper shipping name

ADG : TOXIC SOLID, ORGANIC, N.O.S. (Cetypyridinium chloride monohydrate)

IMDG : TOXIC SOLID, ORGANIC, N.O.S. (Cetypyridinium chloride monohydrate)

IATA : TOXIC SOLID, ORGANIC, N.O.S. (Cetypyridinium chloride monohydrate)

14.3 Transport hazard class

ADG : 6.1

IMDG : 6.1

IATA : 6.1

14.4 Packing group

ADG : II

IMDG : II

IATA : II

14.5 Environmental hazards

ADG : Yes

IMDG Marine Pollutant : Yes

IATA : No

14.6 Special precautions for users

No data available

14.7 Hazchem code

ADG : 2X

IMDG EMS : F-A

14.8 Dangerous goods initial emergency response guide (SAA/SNZ HB76:2010)

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15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

Poisons Schedule : 5

Carcinogen classification under WHS Regulations 2011, Schedule 10

Not listed

Notification status

AICS On the inventory, or in compliance with the inventory.

16. OTHER INFORMATION

Key / legend to abbreviations and acronyms used in the MSDS

| | |
|-------------------|---|
| ADG | Australian Dangerous Goods |
| ASCC | Australian Safety and Compensation Council |
| DEC | Department of Environment and Conservation |
| NOHSC | National Occupational Health and Safety Commission |
| SUSDP | Standard for the Uniform Scheduling of Drugs and Poisons |
| Acute Tox. | Acute toxicity |
| Aquatic Acute | Acute aquatic toxicity |
| Eye Dam. | Serious eye damage |
| Skin Irrit. | Skin irritation |
| TWA | Time weighted average |
| STEL | Short term exposure level |
| SWA | Safe Work Australia |
| Peak Limitations | A ceiling concentration that should not be exceeded over a measurement period, which should be as short as possible, but not exceeding 15 minutes |
| LD ₅₀ | Lethal dose 50. The single dose of a substance that causes the death of 50% of an animal population from exposure to the substance by any route other than inhalation |
| LC ₅₀ | Lethal concentration that kills 50% of an animal population within a specified time |
| TD Lo | The lowest dose of a substance known to have produced signs of toxicity |
| RTECS | Registry of Toxic Effects of Chemical Substances |
| g/L | Grams per litre |
| g/cm ³ | Grams per cubic centimetre |
| mg/m ³ | Milligrams per cubic metre |
| mg/kg | Milligrams per kilogram |
| pH | Relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline |
| WHS | Work Health and Safety |

Literature references

“Workplace Exposure Standards for Airborne Contaminants, December 2011” by SWA
Work Health and Safety Regulations 2011

Disclaimer

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