

1. Identification of the substance/preparation and of the company/undertaking

Identification of the product

Hydroxylammonium chloride

Manufacturer/supplier identification

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2. Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Corrosive to Metals (Category 1)

Acute toxicity, Oral (Category 4)

Acute toxicity, Dermal (Category 4)

Skin corrosion/irritation (Category 2)

Serious eye damage/eye irritation (Category 2A)

Skin sensitization (Category 1)

Carcinogenicity (Category 2)

Specific target organ toxicity - repeated exposure, Oral (Category 2)

Short-term (acute) f2 re|ETQ.00000912 0 612 792 reW*inB/F1 10.56 Tf1 0 0 1 103.82 368.71 Tm0 g89 567.7 Tm0 g0 G{.)IT

GHTECH Material Safety Data Sheet

P234	Keep only in original container.
P260	Do not breathe dust.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
P302 + P352 + P312	IF ON SKIN: Wash with plenty of water.Call a POISON CENTER/doctor if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P390	Absorb spillage to prevent material damage.
P391	Collect spillage.
P405	Store locked up.
P406	Store in corrosive resistant container with a resistant inner liner.
P501	Dispose of contents/ container to an approved waste disposal plant.

Supplemental Hazard Statements
none

3. Composition/information on ingredients

Synonyms

Hydroxylammonium chloride

CAS-No.: 5470-11-1

M: 69.49 g/mol

Molecular formula:H₃NO HCl

4. First aid measures

If inhaled

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

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

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

If swallowed

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

5. Fire-fighting measures

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. Accidental release measures

Personal precautions

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

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7. Handling and storage

Precautions for safe handling

Avoid inhalation of vapour or mist.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. Exposure controls and personal protection

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. 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 in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

9. Physical and chemical properties

Form: crystals

Colour: Colorless

Odour: not available

pH value: not available

Melting point: 159°C.

Boiling point: not available

Ignition temperature: not available

Flash point: not available

Autoignition temperature: not available

Explosion limits

lower: not available

upper: not available

Density : 1.67 g/cm³

Bulk density: not available

Solubility in

water (20 °C) : Soluble in water

diluted acids (20 °C) : not available

Thermal decomposition: not available

10. Stability and reactivity

Chemical stability

no data available

Conditions to avoid

no data available

Materials to avoid

Strong oxidizing agent, phosphorus pentachloride, calcium, anhydrous copper sulfate

Hazardous decomposition products

Other decomposition products - no data available

11. Toxicological information

Acute toxicity

LD50 Oral - Rat - male and female - 600 mg/kg

Skin corrosion/irritation

no data available.

Serious eye damage/eye irritation

no data available.

Respiratory or skin sensitization

May cause skin allergic reaction.

Germ cell mutagenicity

In vitro genotoxicity - Rat - embryo

Morphological deformation

In vitro genotoxicity - Hamster - Lung

Sister chromatid exchange

Carcinogenicity

Suspected human carcinogen

IARC: No component greater than or equal to 0.1% of this product has been identified by IARC as a probable or certain human carcinogen.

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

Prolonged or repeated exposure may damage organs.

Aspiration hazard

no data available

12. Ecological information

Toxicity

Toxicity to fish LC50 - Leuciscus idus - 1 - 10 mg/l - 48.0 h

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

no data available

13. Disposal considerations

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. Transport information

ADR/RID

UN-Number: 2923 Class: 8 6.1 Packing group: II

Proper shipping name: CORROSIVE SOLID, POISONOUS, NOT OTHERWISE SPECIFIED
(HYDROXYLAMINE HYDROCHLORIDE)

IMDG

UN-Number: 2923 Class: 8 6.1 Packing group: II

Proper shipping name: CORROSIVE SOLID, POISONOUS, NOT OTHERWISE SPECIFIED
(HYDROXYLAMINE HYDROCHLORIDE)

Marine pollutant:yes

IATA

UN-Number: 2923 Class: 8 6.1 Packing group: II

Proper shipping name: Corrosive solid, poisonous, not otherwise specified (hydroxylamine hydrochloride)

15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16. Other information

General update.

Regional representation:

This information is given on the authorised Safety Data Sheet for your country.