

1. Product and Company Identification

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Product Name HYDRXYLAMINE HYDROCHLORIDE
Part Number RXSOL-60-6173-500

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
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2. Composition / Information on ingredients

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Chemical Name	CAS	EC numbe	Weight	Formula
Hydroxylamine hydrochloride	5470-11-1	226-798-2	150 °C Heating may cause an explosion.	
Vapour pressure	0,001 hPa at 50 °C			
Density	1,67 g/cm3 at 25 °C - lit.			
Relative Vapour Density	No data available			
Freezing point	No data available			
Specific Gravity	No data available			
Partition coefficient	No data available			
Explosive properties	No data available			
Solubility	470 g/l at 20 °C			
Ignition temperature	No information available.			
Particle characteristics	No data available			

10. Stability and reactivity

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Reactivity	Sensitive to shock Risk of dust explosion. The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Stability	The product is chemically stable under standard ambient conditions (room temperature) .
Possibility of hazardous reactions	Violent reactions possible with: alkaline substances Possible formation of: hydroxylamine Risk of explosion with: fire-promoting substances Oxidizing agents
Conditions to avoid	Air Exposure to moisture. May be unstable at temperatures above: 75° C Heating (decomposition).no information available
Incompatible materials	Aluminum, Copper, Zinc, Tin, Metals
Hazardous decomposition products	In the event of fire: see section 5

11. Toxicological information

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Acute toxicity	LD50 Oral - Rat - male and female - 642 mg/kg (OECD Test Guideline 401) Acute toxicity estimate Oral - 642 mg/kg (ATE value derived from LD50/LC50 value) Inhalation: No data available Acute toxicity estimate Dermal - 1.100,1 mg/kg (Expert judgment) Remarks: (Regulation (EC) No 1272/2008, Annex VI)
Skin corrosion/irritation	Skin - In vitro study Result: Irritating to skin. - 42 min (OECD Test Guideline 439)
Serious eye damage/eye irritation	Eyes - In vitro study Result: Eye irritation - 6 h
Respiratory or skin sensitization	Maximization Test - Guinea pig Result: positive (OECD Test Guideline 406)
Toxic Effects on Human	May cause damage to the following organs: upper respiratory tract. Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant, sensitizer), of ingestion, of inhalation (lung irritant, lung sensitizer).
Carcinogenicity	Presumed to have carcinogenic potential for humans
Germ cell mutagenicity	Test Type: Ames test Test system: <i>S. typhimurium</i> Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Metabolic activation: with and without metabolic activation Result: negative Remarks: (ECHA) Test Type: Rat Test system: Embryo Remarks: Morphological transformation. Test Type: Hamster Test system: Lungs Remarks: Sister chromatid exchange Test Type: Mutagenicity (mammal cell test): micronucleus. Species: Mouse Cell type: Red blood cells (erythrocytes) Application Route: Oral Method: OECD Test Guideline 474 Result: negative
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: Causes skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. Eyes: Causes eye irritation. Ingestion: Causes gastrointestinal (digestive) tract irritation with nausea, vomiting, and diarrhea. May be harmful if swallowed. Inhalation: Causes respiratory tract irritation. May cause chemical pneumonitis and pulmonary edema, inflammation, edema of bronchi and larynx. Chronic Potential Health Effects: Repeated or prolonged skin exposure may cause allergic reactions in sensitive individuals. Repeated or prolonged exposure by inhalation may affect respiration and metabolism.
Endocrine disrupting properties	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. RTECS: NC3675000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Liver - Irregularities - Based on Human Evidence.

12. Ecological information

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Bioaccumulative potential	Bioaccumulation <i>Cyprinus carpio</i> (Carp) - 28 d - 0,1 mg/l(2-Toluidine) Bioconcentration factor (BCF): < 1,3
Persistence and degradability	Biodegradability aerobic - Exposure time 28 d Result: 88 - 90 % - Readily biodegradable. (OECD Test Guideline 301A)
Toxicity to fish	Semi-static test LC50 - <i>Oncorhynchus mykiss</i> (rainbow trout) - 1,78 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	Semi-static test EC50 - <i>Daphnia magna</i> (Water flea) - 1,1 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	Static test EC50 - <i>Pseudokirchneriella subcapitata</i> - 0,21 mg/l - 72 h (OECD Test Guideline 201)
Toxicity to bacteria	Static test EC10 - activated sludge - 1,7 mg/l - 3 h (OECD Test Guideline 209)
Mobility in soil	No Information available
Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either

Endocrine disrupting properties

persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other adverse effects

No data available

13. Disposal considerations

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Disposal methods

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

Waste treatment Method

No data available

14. Transport information

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UN number

ADR/RID: 3260 IMDG: 3260 IATA: 3260

UN proper shipping name

ADR/RID: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Hydroxylammonium chloride)

IMDG: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Hydroxylammonium chloride)

IATA: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Hydroxylammonium chloride)

Transport hazard class(es)

ADR/RID: 8 IMDG: 8 IATA: 8

Packaging group

ADR/RID: III IMDG: III IATA: III

Environmental hazards

ADR/RID: yes IMDG: yes IATA: NO

Further information

Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

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Authorisations and/or restrictions on use

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : 2-Toluidine REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : 2-Toluidine

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

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

Safety, health and environmental regulations specific for the product in question

European Inventory of Existing Commercial Chemical Substances (EINECS) -Listed. EC Inventory Listed. United States Toxic Substances Control Act (TSCA) Inventory- Listed. China Catalog of Hazardous chemicals 2015 Not- Listed. New Zealand Inventory of Chemicals (NZIoC) Listed. PICCS -Listed. Vietnam National Chemical Inventory -Listed. IECSC Listed. Korea Existing Chemicals List (KECL) -Listed.

National legislation

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. E1 ENVIRONMENTAL HAZARDS

Other regulations

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work.

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

Other Information

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