

1. Product and Company Identification

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Product Name : AMMONIUM CHLORIDE LR
Part Number : RXSOL-40-4035-025

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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Name of Substance	Cas Number	EINECS No	Wt.%	Symbol
Ammonium chloride	12125-02-9	235-186-4	53,49 g/mol	Xi

3. Hazards Identification

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Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 4), H302 Eye irritation (Category 2), H319
For the full text of the H-Statements mentioned in this Section, see Section 16.

Labelling according Regulation (EC) No 1272/2008

Pictogram Signal Word Warning

H302

Harmful if swallowed

H319

Causes serious eye irritation.

P264

Wash skin thoroughly after handling

P270

Do not eat, drink or smoke when using this product.

P280

Wear eye protection/ face protection.

P301 + P312

IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes.

P337 + P313

Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements

If eye irritation persists: Get medical advice/ attention.

Reduced Labeling (400 °C - Relative self-ignition temperature for solids does not ignite

none

Decomposition temperature

Not applicable

pH

5 - 5,5 at 25 °C

Viscosity

Viscosity, kinematic: No data available

Water solubility

Viscosity, dynamic: No data available

Partition coefficient:

372 g/l at 20 °C

n-octanol/water

Not applicable for inorganic substances

Vapor pressure

1,3 hPa at 160,4 °C

Density 1,53 g/cm ³ at 25 °C	1,3 hPa at 30 °C No data available
Relative density	
Relative vapor density	No data available
Particle density	No data available
characteristics	
Explosive properties	No data available
Oxidizing properties	No data available
Other safety information	No data available

10. Stability and reactivity

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Reactivity	No data available
Chemical stability	The product is chemically stable under standard ambient conditions (room temperature) .
Possibility of hazardous reactions	Violent reactions possible with: alkali hydroxides acids Risk of ignition or formation of inflammable gases or vapours with: halogen-halogen compounds alkalines alkaline substances Risk of explosion with: nitrates chlorates Heavy metal salts nitrites Hydrogen cyanide (hydrocyanic acid) Chlorine silver salt Strong oxidizing agents
Incompatible materials	Aluminum, Lead, Iron, Copper, copper compounds
Hazardous Decomposition	In the event of fire: see section 5
Condition to Avoid	Exposure to moisture may affect product quality. no information available

11. Toxicological information

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Acute toxicity	LD50 Oral - Rat - male and female - 1.410 mg/kg (OECD Test Guideline 401) Symptoms: Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract. Symptoms: Possible damages: mucosal irritations LD50 Dermal - Rat - male and female - > 2.000 mg/kg Remarks: (ECHA)
Skin corrosion/irritation	Skin - Rabbit Result: No skin irritation - 24 h Aldrich- 254134 Page 8 of 12 The life science business of Merck operates as MilliporeSigma in the US and Canada (Draize Test)
Serious eye damage/eye irritation	Eyes - Rabbit Result: Eye irritation Remarks: (ECHA)
Respiratory or skin sensitization	Maximization Test - Guinea pig Result: negative (OECD Test Guideline 406)
Germ cell mutagenicity	Test Type: Ames test Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: Mutagenicity (mammal cell test): chromosome aberration. Test system: Chinese hamster lung cells Metabolic activation: without metabolic activation Method: OECD Test Guideline 473 Result: positive Test Type: Micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Intraperitoneal injection Method: OECD Test Guideline 474 Result: negative
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Endocrine disrupting properties Product:	Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH

57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU)

2018/605 at levels of 0.1% or higher. Repeated dose toxicity - Rat - male and female - Oral - 90 d - NOAEL (No observed adverse

effect level) - 1.695,7 mg/kg Aldrich- 254134 Page 9 of 12 The life science business of Merck operates as MilliporeSigma in the US and Canada

Remarks: Subchronic toxicity RTECS: BP4550000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. The following applies to ammonium salts in general: after swallowing: local irritation symptoms, nausea, vomiting, diarrhoea. Systemic effect: after the uptake of very large quantities: drop in blood pressure, collapse, CNS disorders, spasms, narcotic conditions, respiratory paralysis, haemolysis. Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

12. Ecological information

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Toxicity

Toxicity to fish semi-static test LC50 - Cyprinus carpio (Carp) - 209,00 mg/l - 96 h Remarks: (ECHA) Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - 101 mg/l - 48 h Remarks: (ECHA) Toxicity to algae static test ErC50 - Chlorella vulgaris (Fresh water algae) - 1.300 mg/l

- 5 d Remarks: (ECHA) Toxicity to bacteria static test EC50 - activated sludge - 1.310 mg/l - 0,5 h (OECD Test Guideline 209) Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity) semi-static test NOEC - Daphnia magna (Water flea) - 14,6 mg/l - 21 d Remarks: (ECHA)

Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Endocrine disrupting properties Product:

Assessment : 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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Waste treatment methods

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

Product

14. Transport information

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Hazard Pictograms:

UN Number	ADR/RID: - IMDG: - IATA: -
Proper shipping name	ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods
Transport hazard class(es) 8	
	ADR/RID: - IMDG: - IATA: -
Packing group	
Packing group	ADR/RID: - IMDG: - IATA: -
Environmental hazards	
Environmental hazards	ADR/RID: no IMDG Marine pollutant: no IATA: no
Special precautions for user	No data available
Further information	Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

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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.
Authorisations and/or restrictions on use	REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : ammonium chloride
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	A Chemical Safety Assessment has been carried out for this substance.

16. Other information

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Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages.

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