

1. Product and Company Identification

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Product Name Ferric Nitrate AR Nonhydrate
Part Number RXSOL-60-6091-500

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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Chemical Name	CAS	EC number	Weight	Formula
Ferric nitrate	7782-61-8	233-899-5	2.000 mg/kg (OECD Test Guideline 401) Remarks: (in analogy to similar compounds) The value is given in analogy to the following substances: Ferrous sulfate heptahydrate Symptoms: Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract., Nausea, Vomiting Symptoms: Shortness of breath, Cough, mucosal irritations LD50 Dermal - Rat - male and female - > 2.000 mg/kg (OECD Test Guideline 402) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: iron dichloride LD50 Dermal - Rat - male and female - > 2.000 mg/kg (OECD Test Guideline 402) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: iron dichloride.	
Skin corrosion/irritation	Remarks: Causes skin burns. (ECHA) (anhydrous substance) The value is given in analogy to the following substances: iron(III) nitrate			
Serious eye damage/eye irritation	Remarks: Causes serious eye damage. (ECHA) (anhydrous substance) The value is given			

		in analogy to the following substances: iron(III) nitrate
Respiratory sensitization	or skin	Local lymph node assay (LLNA) - Mouse Result: negative (OECD Test Guideline 429) Remarks: (anhydrous substance) The value is given in analogy to the following substances: iron(III) nitrate
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		Remarks: No data available
Germ cell mutagenicity		Test Type: Micronucleus test Species: Mouse Cell type: Intraduodenal Application Route: Oral Result: negative Remarks: (in analogy to similar products) The value is given in analogy to the following substances: Ferrous sulfate heptahydrate
Reproductive toxicity		Remarks: No data available
Specific target organ toxicity - single exposure		No data available
Special Remarks on other Toxi 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 properties	disrupting	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. Repeated dose toxicity - Rat - male and female - Oral - 13 Weeks - NOAEL (No observed adverse effect level) - 277 - 314 mg/kg
Remarks: (in analogy to similar products) The value is given in analogy to the following substances: Iron trichloride hexahydrate
Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer., Nausea, Dizziness, Headache, Weakness, Incoordination., Confusion., Cyanosis, Coma To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. After absorption: gastric pain bloody diarrhoea Circulatory collapse The following applies to nitrites/nitrates in general:
methaemoglobinaemia after the uptake of large quantities. The following applies to soluble iron compounds: nausea and vomiting after swallowing. The absorption of large quantities is followed by cardiovascular disorders. Toxic effect on liver and kidneys. Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice. .

12. Ecological information

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Bioaccumulative potential

No data available

Persistence and degradability

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

Toxicity to fish

LC50 - *Lepomis macrochirus* (Bluegill) - 0,24 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates

Semi-static test LC50 - *Daphnia magna* (Water flea) - 323 mg/l - 48 h (OECD Test Guideline 202) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: sodium nitrate

Toxicity to algae

Static test ErC50 - *Pseudokirchneriella subcapitata* - 130 mg/l - 72 h (OECD Test Guideline 201) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: Ferrous sulfate heptahydrate

Toxicity to bacteria	No data available
Mobility in soil	No Information 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	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	Discharge into the environment must be avoided.

13. Disposal considerations

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Disposal methods	The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.
Contaminated packaging	Dispose of as unused product.
Waste treatment Method	See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

14. Transport information

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UN number	ADR/RID: 3206 IMDG: 3206 IATA: 3206
UN proper shipping name	ADR/RID:CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Ferric nitrate nonahydrate) (Ferric nitrate nonahydrate) IMDG:CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Ferric nitrate nonahydrate) (Ferric nitrate nonahydrate) IATA:CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Ferric nitrate nonahydrate) (Ferric nitrate nonahydrate)
Transport hazard class(es)	ADR/RID: 8 IMDG: 8 IATA: 8
Packaging group	ADR/RID: II IMDG: II IATA: II
Environmental hazards	ADR/RID: NO IMDG: NO IATA: NO
Further information	No data available

15. Regulatory information

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Inventory status	Components are on the following inventories: Polymaleic acid: - US TSCA, Canadian DSL, EU EINECS, Australian AICS, Korean, Philippine PICCS and Chinese Xi irritant R 36/38 Irritant to eyes & skin R 41 Risk of serious damage to eyes S24/25 Avoid contact with skin and eyes S26/28 In case of contact eyes & skin, rinse with plenty water and seek medical advice Section 312/313: Not listed. Not listed under California proposition 65.
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 - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : phenolphthalein REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : phenolphthalein
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. O1 OTHER HAZARDS

16. Other information

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Other Information

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