

1. Product and Company Identification

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Product Name Magnesium sulfate
Part Number RXSOL-94-1011-050

Company Details:....

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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Component	Cas No	Weight	EC-No.
Magnesium sulfate	7487-88-9	120,37 g/mol	231-298-2

3. Hazards Identification

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Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Label elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Other hazards

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.

4. First Aid Measures

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Eye Contact	After eye contact: rinse out with plenty of water. Remove contact lenses.
Skin Contact	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.
Swallowed	After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.
Inhalation	After inhalation: fresh air.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment needed

No data available

5. Fire-fighting Measures

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Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

Special hazards arising from the substance or mixture

Sulfur oxides, Magnesium oxide Not combustible. Ambient fire may liberate hazardous vapours.

Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental Release Measures

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Personal Protection

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

Environmental Precaution

Do not let product enter drains.

Methods and materials for containment and cleaning

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

Reference to other sections

For disposal see section 13.

7. Handling and Storage

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Handling

For precautions see section 2.2.

Storage conditions

Tightly closed. Dry. Hygroscopic

Storage class

Storage class (TRGS 510): 13: Non Combustible Solids

Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. Exposure controls and personal protection

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Eye/face Protection

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

Skin and body protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested: KCL 741 Dermatrill® L

Respiratory Protection

Required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P1 The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions

Control of environmental exposure

of the producer. These measures have to be properly documented.
Do not let product enter drains.

9. Physical and chemical properties

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Physical state	Granular, powder
Appearance	Form: granular, powder
	Color: white
Odor	Odorless
Odor Threshold	No information available
pH	ca.7,9 at 50 g/l at 25 °C
Melting Point/Range	1.124 °C - (Lit.)
Boiling Point/Range	No data available
Flash Point	Not applicable
Evaporation Rate	No data available
Flammability (solid, gas)	The product is not flammable.
Flammability or explosive limits	No data available
Vapor Pressure	< 0,1 hPa at 20 °C
Vapor Density	No data available
Density	2,66 g/cm ³ at 20 °C
Water Solubility	300 g/l at 20 °C - completely soluble
Partition coefficient; n-octanol/water	Not applicable for inorganic substances
Autoignition Temperature	No data available
Decomposition Temperature	1.124 °C -
Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available
Explosive properties	No data available
Oxidizing properties	None

10. Stability and reactivity

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Reactive Hazard	No data available
Stability	The product is chemically stable under standard ambient conditions (room temperature) .
Conditions to Avoid	Hygroscopic no information available
Incompatible Materials	Strong
Hazardous decomposition products	In the event of fire: see section 5
Hazardous Reactions	no information available

11. Toxicological information

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Acute Toxicity

LD50 Oral - Rat - male and female - > 2.000 mg/kg (OECD Test Guideline 425)

Inhalation: No data available 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: potassium sulphate

Skin corrosion/irritation	Skin - reconstructed human epidermis (RhE) Result: No skin irritation - 5 min (Regulation (EC) No. 440/2008, Annex, B.46) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: potassium sulphate
Serious eye damage/eye irritation	Eyes - Rabbit Result: No eye irritation (OECD Test Guideline 405) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: potassium sulphate
Respiratory or skin sensitization	Local lymph node assay (LLNA) - Mouse Result: negative (OECD Test Guideline 429)
Germ cell mutagenicity	No data available Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No information available.

Additional Information

Repeated dose toxicity - Rat - male - Oral - 104 Weeks - NOAEL (No observed adverse effect level) - 256 mg/kg

Remarks: (in analogy to similar products) The value is given in analogy to the following substances: ammonium sulphate RTECS: OM4500000 Diarrhea, Vomiting, Central nervous system depression To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Toxic effects are only to be expected at very high doses. However, when the product is handled appropriately, hazardous effects are unlikely to occur.

Therapeutically used substance. Handle in accordance with good industrial hygiene and safety practice.

12. Ecological information

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Toxicity to fish	static test LC50 - Pimephales promelas (fathead minnow) - 680 mg/l - 96 h (US-EPA) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: potassium sulphate
Toxicity to daphnia and other aquatic invertebrates	static test LC50 - Daphnia magna (Water flea) - 720 mg/l - 48 h (US-EPA) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: potassium sulphate
Toxicity to algae	static test EC50 - Chlorella vulgaris (Fresh water algae) - 2.700 mg/l - 18 Days Remarks: (in analogy to similar products)
Toxicity to bacteria	EC50 - Photobacterium phosphoreum - 84.000 mg/l - 30 min Remarks: (IUCLID)
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.
Other adverse effects	Other adverse effects
Component	log Pow
Acetic acid	-0.2

13. Disposal considerations

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Waste treatment methods

Product

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: - IMDG: - IATA: -

Proper Shipping Name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

Hazard Class

IATA: Not dangerous goods

Environmental hazards

ADR/RID: - IMDG: - IATA: -

ADR/RID: no

IMDG Marine pollutant: no

Packing Group

IATA: no

Special precautions for user

ADR/RID: - IMDG: - IATA: -

Not classified as dangerous in the meaning of transport regulations.

Further information

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.

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

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 we 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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No information available.

No information available.

No information available.