Material Safety Data Sheet

MAGNESIUM NITRATE HEXAHYDRATE (RXSOL-43-1912-050)

1. Product and Company Identifaction

Product Name	Magnesium Nitrate Hexahydrate
Part Number	RXSOL-94-1912-025

Company Details:
RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

Stock point : Kandla , Mumbai, Chennai, Kolkata, Visakhapatnam, Fujairah, Muscat Barka, Kanya, Canada

Phone	+91 22 27815541 / 42 / 43
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	**123@rxmarine.com**
Website	**www.rxmarine.com**

2. Composition / informationon ingredients

Name of Substance	Cas Number	EC Num
Magnesium Nitrate	13446-18-9	233-826

3. Hazards Identification

Signal Word	Warning
Hazard Statements	This substance is not classified as dangerous according to European Union legislation.
Precautionary statements - prevention	P262 Do not get in eyes, on skin, or on clothing.
Precautionary statements - response	None Known

4. First Aid Measures

Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used.Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Eye Contact	After eye contact: rinse out with plenty of water with the eyelid held wide open. Call in ophthalmologist if necessary.
Inhalation:	Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.
Ingestion:	Do not induce vomiting. Obtain medical attention.If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
Notes to Physician	Treat symptomatically

5. Fire-fighting Measures

Flammability	May be combustible at high temperature.
Flash Point	Not applicable.
Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Hazardous combustion products	Not combustible.Development of hazardous combustion gases or vapours possible in the event of fire. Fire may cause evolution of: nitrous gases, nitrogen oxides.
Protective Equipment	Use personal protective equipment.
Specific Hazards Arising from the Chemical	Not considered to be a significant fire risk.

6. Accidental Release Measures

Spillage	Oxidizing material. Stop leak if without risk. Avoid contact with a combustible material (wood, paper, oil, clothing...). Keep substance damp using water spray. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal.
Personal Protection	Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. Advice for emergency responders: Protective equipment see section 8.
Enviromental 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

7. Handling and Storage

Handling	Do not ingest. Do not breathe dust. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from Keep away from heat. Keep away from sources of ignition. Keep away from combustible material. Empty containers pose a fire risk, evaporate the residue under a fume hood. .
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. Separate from acids, alkalies, reducing agents and combustibles. See NFPA 43A, Code for the Storage of Liquid and Solid Oxidizers. Do not store above 23°C (73.4°F).
Advice on generaloccupationalhygiene	Advice on safe handling Observe label precautions. Change contaminated clothing. Wash hands after working with substance.

8. Exposure controls and personal protection

Engineering Contro	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection	**Eye/face Protection** : Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Tightly fitting safety goggles. **Skin and body protection** : Wear appropriate protective gloves and clothing to prevent skin exposure. **Respiratory Protection** : Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator exposure limits are exceeded or if irritation or other symptoms are experienced.

OtherProtection Measure	Handle in accordance with good industrial hygiene and safety practice.
ExposureLimit	Not Available .



Gloves



Suit

9. Physical and chemical properties

Form	Solid
Colour	White
Odour	Odourless
Odor Threshold	No Information Available
pH	5 - 7
Melting Point	89 °C
Boiling Point	Not Applicable
Flash Point	Does Not Flash
Evaporation Rate	Not Applicable
Flammability (solid, gas)	No Data Available
Explosive limits	No Data Available
Vapour pressure	Not Applicable
Vapour Density	Not Applicable
Specific Gravity	1.46 (Water = 1)
Partition coefficient	No data available
Explosive properties	None
Solubility	Soluble in water. 420 g / L at 20°C
Decomposition temperature	Decomposition temperature > 90 °C Elimination of water of crystallisation 330 °C

10. Stability and reactivity

Recativity	Explosible
Stability	Product is stable.
Possibility of hazardous reaction	Risk of explosion with: Esters organic combustible substances, oxidisable substances, Strong acids, Powdered metals, phosphorus.Exothermic reaction with: Dimethylformamide, Reducing agents
Conditions to avoid	Strong Heating
Incompatible materials	No Information available
Hazardous Polymerization	Hazardous polymerization does not occur.

11. Toxicological information

Rout Of Entry	Eye contact. Inhalation. Ingestion
Toxicity to Animal	Acute oral toxicity (LD50): 5440 mg/kg [Rat].
Toxic Effects on Humans	May cause damage to the following organs: blood, kidneys, lungs, gastrointestinal tract.

Special Remarks on other Toxic Effects on Humans:	Also irritating to mucous memebranes. May affect lungs and central nervous system. Excessive amounts of magnesium may cause central nervous system depression, and may also affect the heart. Other Chronic Effects: May cause methemoglobinemia, which is characterized by chocolate-brown colored blood, headache, weakness, dizziness, breath shortness, cyanosis, rapid heart rate, unconsciousness and possible death. Repeated exposure may cause kidney damage an digestive tract abnormalities. Effects may be delayed.

12. Ecological information

Eco Toxicity	No information available.
COD and BOD 5	Not Available
Products of Biodegradation:	No Information available
Mobility in soil	No Information available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Other adverse effects	Discharge into the environment must be avoided.

13. Disposal considerations

Waste treatment Method	Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself

14. Transport information

DOT	Not classified as dangerous in the meaning of transport regulations.
IATA	Not classified as dangerous in the meaning of transport regulations.
IMDG	Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

Fedral and State Regulation	No products were found.
Other Regulation	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
WHMIS (Canada)	CLASS C: Oxidizing material.

DSCL (EEC)	R8- Contact with combustible material may cause fire. R36/37/38- Irritating to eyes, respiratory system and skin. S17- Keep away from combustible material.

HMIS

Health Hazard	: 2
Fire Hazard	: 1
Reactivity	: 0
Personal Protection	: E

Fire :

Health Hazard	: 2
Fire Hazard	: 1
Reactivity	: 0
Specific Hazard	:

16. Other information

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 weassume 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.