Material Safety Data Sheet

NICKEL NITRATE LR HEXAHYDRATE (RXSOL-60-6605-090)

1. Product and Company Identifaction

Product Name	RXSOL-60-6605-090
Product Type	NICKEL NITRATE LR HEXAHYDRATE
Revised date	

Company Details:

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

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2. Composition / informationon ingredients

Substance / Preparation : NICKEL NITRATE EXTRA PURE (HEXAHYDRATE)
CAS No :13478-00-7
Substance. Contains no other components or impurities which will influence the classification of the product.

3. Hazards Identification

3.1. Classification of the substance or mixture
Classification EC 67/548 or EC 1999/45
Classification : T; R48/23
Xn; R20/22
Xi; R38-41
Xn ; R42/43
N; R50-53
Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)
Health hazards : Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4)
H302 Acute toxicity, Inhalation - Category 4 - Warning (CLP : Acute Tox. 4) H332
Environmental hazards : Hazardous to the aquatic environment - Acute hazard
- Category 1 - Warning (CLP : Aquatic Acute 1) H400
3.2. Label elements
Labelling EC 67/548 or EC 1999/45
Symbol(s) : O : Oxidizing
T : Toxic R Phrase(s) : R8 : Contact with combustible material may cause fire.
R49 : May cause cancer by inhalation.
R61 : May cause harm to the unborn child.
R20/22 : Harmful by inhalation and if swallowed.
R38 : Irritating to skin.
R41 : Risk of serious damage to eyes.
R42/43 : May cause sensitization by inhalation and skin contact.
R48/23 : Toxic : danger of serious damage to health by prolonged exposure through inhalation.
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R68 : Possible risks of irreversible effects.
S Phrase(s) : S24 : Avoid contact with skin.
S37 : Wear suitable gloves.
S53 : Avoid exposure - obtain special instructions before use
. S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).
S60 : This material and its container must be disposed of as hazardous waste.

S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.
Labelling Regulation EC 1272/2008 (CLP)
Hazard pictograms
Signal words : Warning
Hazard statements : H302 : Harmful if swallowed.
H332 : Harmful if inhaled.
H400 : Very toxic to aquatic life.
Precautionary statements
• Prevention : P271: Use only outdoors or in a well-ventilated area.
P261: Avoid breathing dust, fume, gas, mist, vapours, spray.
P273: Avoid release to the environment.
P264: Wash thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
• Response : P301+P312: IF SWALLOWED : Call a POISON CENTER or doctor if you feel unwell.
P391: Collect spillage.
P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position omfortable for breathing
• Disposal considerations : P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
3.3. Other hazards Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

4. First Aid Measures

4.1. Description of first aid measures
Inhalation : Assure fresh air breathing. Allow the victim to rest. Call a POISON CENTER or doctor if you feel unwell. Remove to fresh air and keep at rest in a position comfortable for breathing.
Skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
Eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
Ingestion : Obtain emergency medical attention. Call a POISON CENTER or doctor if you feel unwell. Do NOT induce vomiting. Rinse mouth.
4.2. Most important symptoms and effects, both acute and delayed
Symptoms relating to use : Danger of serious damage to health by prolonged exposure through inhalation. Swallowing a small quantity of this material will result in serious health hazard.
4.3. Indication of any immediate medical attention and special treatment needed
General information : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible)

5. Fire-fighting Measures

5.1. Extinguishing media
Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand
Unsuitable extinguishing media : Do not use a heavy water stream.
Surrounding fires : Use water spray or fog for cooling exposed containers.
5.2. Special hazards
arising from the substance or mixture
Hazardous combustion products : Under fire conditions, hazardous fumes will be present.
5.3. Advice for fire-fighters
Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.
Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures For emergency responders : Equip cleanup crew with proper protection.
Ventilate area.
For non-emergency personnel : Evacuate unnecessary personnel.
6.2. Environmental precautions
Environmental precautions : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. Avoid release to the environment.
6.3. Methods and material for containment and cleaning up

Clean up methods : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.
6.4. Reference to other sections
See section 8. Exposure controls/personal protection

7. Handling and Storage

7.1. Precautions for safe handling
Handling : Avoid breathing dust, fume, gas, mist, vapours, spray. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling.
Technical protective measures : Provide good ventilation in process area to prevent formation of vapour.
7.2. Conditions for safe storage, including any incompatibilities
Storage : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.
Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight.
7.3. Specific end use(s) Specific end use(s) : None.

8. Exposure controls and personal protection

8.1. Exposure controls
Personal protection : Avoid all unnecessary exposure.
• Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
• Hand protection : Wear protective gloves.
• Eye protection : Chemical goggles or safety glasses
• Others : When using, do not eat, drink or smoke.
8.2. Control parameters
Occupational Exposure Limits : No data available.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties
Physical state at 20 °C : Solid.
Odour threshold : No data available.
pH value : Not applicable.
Melting point [°C] : 56 °C
Decomposition point [°C] : N/A
Critical temperature [°C] : N/A
Auto-ignition temperature [°C] : N/A
Flammability (solid, gas) : N/A
Flash point [°C] : N/A
Boiling point [°C] : 1370C
Initial boiling point [°C] : N/A
Final boiling point [°C] : N/A
Evaporation rate : N/A
Vapour pressure [20°C] : N/A
Vapour pressure mm/Hg : N/A
Vapour density : N/A
Density [g/cm3] : 2,05
Relative density, gas (air=1) : N/A
Relative density, liquid (water=1) : N/A
Solubility in water [% weight] : 238.5g/100cc water @
Solubility in water : N/A
Log Pow octanol / water at 20°C : No data available.
Solubility : 3.5 - 5.5
Viscosity at 40°C [mm2/s] : N/A
9.2. Other information
Explosive properties : N/A
Explosion limits - upper [%] : N/A
Explosion limits - lower [%] : N/A
Oxidising properties : No data available.

10. Stability and reactivity

10.1. Reactivity
Reactivity : Not established.
10.2. Chemical stability

Chemical stability : Stable under recommended storage conditions.
10.3. Possibility of hazardous reactions
Hazardous reactions : Not established.
10.4. Conditions to avoid
Conditions to avoid : Direct sunlight. Extremely high or low temperatures.
10.5. Incompatible materials
Materials to avoid : Strong acids. Strong bases.
10.6. Hazardous decomposition products
Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide

11. Toxicological information

11.1. Information on toxicological effects
Acute toxicity
• Inhalation : Harmful if inhaled.
• Dermal : Based on available data, the classification criteria are not met.
• Ingestion : Harmful if swallowed. Corrosion : Based on available data, the classification c
riteria are not met. Irritation : Based on available data, the classification criteria are not met.
Sensitization : Based on available data, the classification criteria are not met
. Mutagenicity : Based on available data, the classification criteria are not met.
Carcinogenicity : Based on available data, the classification criteria are not met.
Toxic for reproduction : Based on available data, the classification criteria are not met.
STOT-single exposure : Based on available data, the classification criteria are not met.
STOT-repeated exposure : Based on available data, the classification criteria are not met.
Aspiration hazard : Based on available data, the classification criteria are not met.

12. Ecological information

12.1. Toxicity
Toxicity information : Very toxic to aquatic life.
12.2. Persistence - degradability
Persistence - degradability : Biodegradable.
12.3. Bioaccumulative potential
Bioaccumulative potential : Not established.
12.4. Mobility in soil
Mobility in soil : Not established.
12.5. Results of PBT and vPvB assessment
Results of PBT and vPvB assessment : The substance does not fulfil the criteria to be
identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.
12.6. Other adverse effects
Environmental precautions : Avoid release to the environment.

13. Disposal considerations

13.1. Waste treatment methods
General : Avoid release to the environment. Dispose in a safe manner in accordance with
local/national regulations. Dispose of this material and its container to hazardous or
special waste collection point, in accordance with local, regional, national and/or
international regulation.

14. Transport information

14.1. Land transport (ADR-RID)
Proper shipping name : NICKEL NITRATE
UN N° : 2725
H.I. nr : 50
ADR - Class : 5.1
Labelling - Transport : 5.1 : Oxidizing substances.
ADR - Classification code : O2
ADR - Group : III
ADR - Packing instructions : P002 R001 LP002
ADR - Limited Quantity : 5 KG
ADR - Tunnel code: E : Passage forbidden through tunnels of category E.
14.2. Sea transport (IMDG) [English only]
Proper shipping name : NICKEL NITRATE
UN N° : 2725
IMO-IMDG - Class or division : 5.1
: Oxidizing substances.
IMO-IMDG - Packing group : III

IMO- IMDG - Packing instructions : P002 LP02
IMO-IMDG - Limited quantities : 5 kg
IMO-IMDG - Marine pollution : Yes
EMS-Nr : F-A S-Q
14.3. Air transport (ICAO-IATA) [English only]
Proper shipping name : NICKEL NITRATE
UN N° : 2725
IATA - Class or division : 5.1
: Oxidizing substances
. IATA - Packing group : III
IATA - Passenger and Cargo Aircraft : ALLOWED
- Passenger and Cargo - Packing : 559
instruction
- Passenger and Cargo - Maximum : 25 kg
Quantity/Packing IATA - Cargo only : ALLOWED
- Cargo only - Packing instruction : 563
- Cargo only - Maximum Quantity/ : 100 kg
Packing IATA - Limited Quantites : 10 kg
ERG-Nr : 5L

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Safety, health and environmental : Ensure all national/local regulations are observed.
regulations/legislation specific for the substance or mixture
REACH
Restrictions - Annex XVII : The components of this product are not subject to restrictions.
REACH Authorisation - Annex XIV : The components of this product are not subject to authorization.
15.2. Chemical Safety Assessment
Chemical Safety Assessment : It has not been carried out

16. Other information

Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic.
vPvB: very persistent and very bioaccumulative
Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
Further information : None.
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