Material Safety Data Sheet

NICKEL CHLORIDE LR (RXSOL-60-6605-088)

1. Product and Company Identifaction

Product Name	RXSOL-60-6605-088
Product Type	NICKEL CHLORIDE EXTRA PURE(HEXAHYDRATE)
Revised date	

Company Details:

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

Stock Point : Mumbai, Kandla, Chennai, Visakhapatnam, Kolkata, Fujairah, Muscat Barka

Phone	+91 22 27815541 / 42
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	mail@rxmarine.com

2. Composition / informationon ingredients

Substance / Preparation: NICKEL CHLORIDE EXTRA PURE(HEXAHYDRATE)
CAS No :7791-20-0
Substance.
Contains no other components or impurities which will influence the classification of theproduct.

3. Hazards Identification

3.1. Classification of the substance or mixture
Classification EC 67/548 or EC 1999/45
Classification: T; R23/25-R48/23
Xi; R38Xn ; R42/43N; R50-53
Hazard Class and Category Code(s), Regulation (EC) No 1272/2008
(CLP)Health hazards: Specific Target Organ
Toxicity-Single exposure-Category 2-Warning (CLP :STOT SE 2) H371
Specific Target Organ Toxicity-Repeated
exposure-Category 1-Danger (CLP :STOT RE 1) H372
Respiratory sensitization-Category 1-Danger (CLP : Resp. Sens. 1) H334
Skin sensitisation-Category 1-Warning (CLP : Skin Sens. 1) H317
Skin irritation-Category 2-Warning (CLP : Skin Corr. 2) H315
Acute toxicity, Inhalation-Category 3-Danger (CLP : Acute Tox. 3) H331
Acute toxicity, Oral-Category 3-Danger (CLP : Acute Tox. 3) H301
Environmental hazards: Hazardous to the aquatic
environment-Acute hazard-Category 1-Warning (CLP: Aquatic Acute 1) H400
Hazardous to the aquatic environment-Chronic hazard-Category 1-Warning
(CLP :Aquatic Chronic 1) H410
3.2. Label elements
Labelling EC 67/548 or EC 1999/45 2 of 10
Symbol(s) : T :
Toxic N : Dangerous for the environment
R Phrase(s) : R49 : May cause cancer by inhalation.
R61 : May cause harm to the unborn child.
R23/25 : Toxic by inhalation and i f swallowed.
R38 : Irritating to skin.
R42/43 : May cause sensitization by inhalation and skin contact.
R48/23 : Toxic : danger of serious damage to health by prolonged exposure inhalation.
R50/53 : Very toxic to aquatic organisms, may cause longt through erm adverse effects in the aquatic environment.
R68 : Possible risks of irreversible effects.
S Phrase(s) : S24 : Avoid contact with shin.
S37 : Wear suitable gloves.
S53 : Avoid exposureobtain 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
Labelling Regulation EC 1272/2008 (CLP)
Hazard pictograms

Signal words : Danger
Hazard statements : H301 : Toxic if swallowed.
H331 : Toxic if inhaled. H315 : Causes skin irritation.
H334 : May cause allergy or asthma symptoms or breathing difficultie
H317 : May cause an allergic skin reaction.
H372 : Causes damage to organs through prolonged or repeated exposure.
H371 : May cause damage to organs.
H410 : Very toxic to aquatic life with long lasting effects. Precautionary statements
• Prev ention sheets. s if inhaled. : P285: In case of inadequate ventilation wear respiratory protection
P280: Wear protective gloves, protective clothing, eye protection, face protection.
P271: Use only outdoors or in a well-ventilated area.
P260: Do not breathe dust, fume, gas, mist, vapours, spray.
P273: Avoid release to the environment.
P264: Wash thorou ghly after handling.
P270: Do not eat, drink or smoke when using this product.
P272: Contaminated work clothing should not be allowed out of the workplace.
• Response: P301+P310:IF SWALLOWED : Immediately call a POISON CENTER ordoctor.
P302+P352: IF ON SKIN : Wash with plenty of soap and water.
P309+P311: IF exposed or if you feel unwell : Call a POISON CENTER or doctor.
P391: Collect spillage
.P304+P340: IF INHALED : Remove tofresh air and keep at rest in a positioncomfortable for breathing.
P333+P313: If skin irritation or rash occurs : Get medical advice.
P342+P311: If experiencing respiratory symptoms : Call a POISON CENTER ordoctor.
P363: Wash contaminated clothing beforereuse.
P314: Get medical advice if you feel unwell.
• Storage: P403+P233: Store in well-ventilated place. Keep container tightly closed.
P405: Store locked up.
• Disposal considerations: P501: Dispose of this material and its container to hazardousor
special wastecollection point, in accordance with local, regional, national and/orinternationalregulation.
3.3. Other hazardsOther hazards: The substance does not fulfil the criteria to be identified
as PBTsubstance or vPvBsubstance according to Annex XIII of Regulation REACH.

4. First Aid Measures

4.1. Description of first aid measures
Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing.
Specific treatment (see on this label). Immediately call a POISON CENTER ordoctor.
If experiencing respiratory symptoms :
Skin contact:If skin irritation or rash occurs : Wash contaminated clothing before reuse.
Washwith plenty of soap and water. Get medical advice. Specific treatment (see on thislabel).
Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, ifpresentand easy to do.
Continue rinsing.Ingestion: Specific treatment (see on this label).
Immediately call a POISON CENTERordoctor. 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
exposurethrough inhalation.Causes damage to organs through prolonged or repeated
exposure.Swallowing a small quantity of this material will result in serious health hazard.
Causes skin irritation.May cause allergy or asthma symptoms or breathing difficulties ifinhaled.
May cause an allergic skin reaction.May cause damage to organs.
4.3. Indication of any immediate medical attention and specialtreatment needed
General information: Never give anything by mouth to an unconscious person.
If youfeel unwell, seekmedical 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 bepresent.
5.3. Advice for fire-fighters
Protection against fire: Do not enter fire area without proper protective
equipment,including respiratoryprotection.Special procedures: Exercise caution
when fighting any chemical fire. Avoid (reject)fire-fighting water toenter 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.Avoid breathing dust, fume, gas, mist, vapours, spray.
For non-emergency personnel: Evacuate unnecessary personnel.
6.2. Environmental precautions
Environmental precautions: Prevent entry to sewers and public waters.
Notifyauthorities if product enterssewers 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.
Store away fromother materials.
6.4. Reference to other sections
See section 8. Exposure controls/personal protection

7. Handling and Storage

7.1. Precautions for safe handlingPersonal
protection: Do not breathe dust, fume, gas, mist, vapours, spray.
Washthoroughly afterhandling. Do not eat, drink or smoke when using this product.
Handling: Contaminated work clothing should not be allowed out of the workplace.
Donotbreathe dust, fume, gas, mist, vapours, spray. Wash thoroughly after handling.
Wash contaminated clothing before reuse. Do not eat, drink or smoke when usingthis product.
Wash thoroughly after handling. Do not eat, drink or smoke whenusing this product.
Avoid breathing dust, fume, gas, mist, vapours, spray. Use onlyoutdoors or in a well-ventilated area.
Wash thoroughly after handling.
Technical protective measures: Provide good ventilation in process area to preventformation of vapour.
7.2. Conditions for safe storage, including any incompatibilities
Storage: Keep only in the original container in a cool, well ventilated place.
Keepcontainertightly closed.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 respiratoryequipment.
Where exposure through inhalation may
occur from use, respiratoryprotectionequipment is
recommended.Incase of inadequate ventilation wear respiratoryprotection.
• Hand protection: Wear protective gloves.
• Skin protection: Wear suitable protective clothing.
• 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]: 10010C
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]: N/A
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: 1 mm Hg @ 6710C
Vapour density: N/A
Density [g/cm3]: 3,55

Relative density, gas (air=1): N/A
Relative density, liquid (water=1): N/A
Solubility in water [% weight]: 2.54 kg/L @ 200C
Solubility in water: N/A
Log Pow octanol / water at 20°C: No data available.
Solubility: 4Viscosity 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
reactionsHazardous 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 effectsAcute toxicity
• Inhalation: Toxic if inhaled.
• Dermal: Based on availabledata, the classification criteria are not met
.• Ingestion: Toxic if swallowed.Corrosion: Based on available data, the classification criteria are not met.
Irritation: Causes skin irritation.
Sensitization: May cause allergy or asthma symptoms or breathing difficulties ifinhaled.May
cause an allergic skin reaction.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: Causes damage to organ.
STOT-repeated exposure: Causes damage to organs through prolonged or repeatedexposure.
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 with long lasting effects.
12.2. Persistence-degradability
Persistence-degradability: May cause long-term
adverse effects inthe environment.
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 beidentified as PBT substance
or vPvBsubstance according to Annex XIII of RegulationREACH.
12.6. Other adverse effects
Environmental precautions: Avoid release to the environment.

13. Disposal considerations

13.1. Waste treatmentmethods
General: Avoid release to the environment.
Dispose in a safe manner in accordance withlocal/national regulations.

Dispose of this material and its container to hazardous orspecial waste collectionpoint, in accordance with local, regional, national and/orinternational regulation.Special precautions: Hazardous waste due to toxicity.

14. Transport information

14.1. Land transport (ADR-RID)
Proper shipping name: TOXIC SOLID, INORGANIC, N.O.S.
UN N°: 3288H.I. nr: 60
ADR-Class: 6.1
Labelling-Transport: 6.1 : Toxic substances.ADR-Classification code: T5
ADR-Group: III
ADR-Packing instructions: P002 R001
LP002ADR-Limited Quantity: 5 K
GADR-Tunnel code: E : Passage forbidden through tunnels of category E.
14.2. Sea transport (IMDG) [English only]
Proper shipping name: TOXIC SOLID, INORGANIC, N.O.S.
UN N°: 3288I
MO-IMDG-Class or division: 6.1 : Toxic substances.
IMO-IMDG-Packing group: III
IMO-IMDG-Packing instructions: P002 LP02
IMO-IMDG-Limited quantities: 5kg
IMO-IMDG-Marine pollution: Yes
EMS-Nr: F-A S-A
14.3. Air transport (ICAO-IATA) [English only]
Proper shipping name: TOXIC SOLID, INORGANIC, N.O.S.
UN N°: 3288
IATA-Class or division: 6.1 : Toxic substances
.IATA-Packing group: III
IATA-Passenger and Cargo Aircraft: ALLOWED-
Passenger and Cargo-Packing: 670
instruction-Passenger and Cargo-Maximum: 100kg
Quantity/PackingI
ATA-Cargo only: ALLOWED-
Cargo only-Packing instruction: 677-
Cargo only-Maximum Quantity/: 200kg
PackingIATA-Limited Quantites: 10 kg
ERG-Nr: 6L

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for thesubstance or mixture
Safety, health and environmental: Ensure all national/local regulations are observed.
regulations/legislation specific for thesubstance or mixture
REACH Restrictions-Annex XVII: The components of this product are not subject torestrictions.
REACH Authorisation-Annex XIV: The components of this product are not subjecttoauthorization.
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
Sourcesof key data used: REGULATION (EC) No 1272/2008 OF THE EUROPEANPARLIAMENT 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 1907/2006Further information: None.In accordance with REACH Regulation (CE) Nº 1907/2006 and with CLP Regulation(CE) Nº 1272/2008 DISCLAIMER OF LIABILITY The information in this SDS wasobtained from sources which we believe arereliable. However, theinformation isprovided without any warranty, express or implied, regarding itscorrectness. Theconditions or methods of handling,storage, use or disposal of the productare beyond ourcontrol and may be beyond our knowledge.For this and other reasons, wedo not assume responsibility and expressly disclaimliability for loss, damage or expensearising out of or in any way connected with thehandling, storage, use or disposal of theproduct. This MSDS was prepared and is to beusedonly for this product. If theproduct is used as a component in another product, thisMSDS information may not beapplicable.