Material Safety Data Sheet

BARIUM PERCHLORATE LR ANHYDROUS (RXSOL-60-6604-022)

1. Product and Company Identifaction

Product Name	RXSOL-60-6604-022
Product Type	BARIUM PERCHLORATE LR (ANHYDROUS)
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 : Barium perchlorate
CAS No :13465-95-7
Substance.
Contains no other components or impurities which will influence the classification of the product.

3. Hazards Identification

2.1. Classification of the substance or mixture
Classification EC 67/548 or EC 1999/45
Classification : O; R9
Xn; R20/22
Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)
Health hazards : Acute toxicity, Inhalation - Category 4 - Warning (CLP : Acute Tox. 4) H332
Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302
Physical hazards : Oxidizing solids - Category 1 - Danger (CLP : Ox. Sol. 1) H271
2.2. Label elements
Labelling EC 67/548 or EC 1999/45
Symbol(s) : O : Oxidizing
Xn : Harmful

R Phrase(s) : R9 : Explosive when mixed with combustible material.
R20/22 : Harmful by inhalation and if swallowed.
S Phrase(s) : S2 : Keep out of the reach of children.
S27 : Take off immediately all contaminated clothing.
Labelling Regulation EC 1272/2008 (CLP)
Hazard pictograms



Signal words : Danger
Hazard statements : H271 : May cause fire or explosion; strong oxidizer.
H302 : Harmful if swallowed.
H332 : Harmful if inhaled.
Precautionary statements
• General : P102: Keep out of reach of children.

P103: Read label before use.
P101: If medical advice is needed, have product container or label at hand.
• Prevention : P210: Keep away from heat, sparks, open flames or hot surfaces. – No smoking.
P280: Wear protective gloves, protective clothing, eye protection, face protection.
P271: Use only outdoors or in a well-ventilated area.
P261: Avoid breathing dust, fume, gas, mist, vapours, spray.
P220: Keep away from clothing - combustible materials.
P264: Wash thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
• Response : P371+P380+P375: In case of major fire and large quantities : Evacuate area
. Fight fire remotely due to the risk of explosion. P301+P312: IF
SWALLOWED : Call a POISON CENTER or doctor if you feel unwell.
P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.
P306+P360: IF ON CLOTHING : Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
P370+P378: In case of fire: Use for extinction.
• 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.
2.3. 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 : IF ON CLOTHING : Rinse immediately contaminated

clothing and skin with plenty of water before removing clothes.

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
Flammable class : May cause fire or explosion; strong oxidizer. 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.
In case of major fire and large quantities : Evacuate area. Fight fire remotely due to the risk of explosion.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures
For emergency responders : Equip cleanup crew with proper protection. Ventilate area.
Special precautions : No naked lights. No smoking. May cause fire or explosion; strong oxidizer.
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.
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 : Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Take any precaution to avoid mixing with combustibles. Avoid breathing dust, fume, gas, mist, vapours, spray.
Technical protective measures : Provide good ventilation in process area to prevent formation of vapour. Proper grounding procedures to avoid static electricity should be followed.
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. Keep in fireproof place.
Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight. Heat sources. Combustible material.
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. Wear fire, flame resistant, retardant clothing.
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] : 505 °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] : 21 °C
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 : N/A
Vapour density : N/A
Density [g/cm3] : 0.908
Relative density, gas (air=1) : N/A
Relative density, liquid (water=1) : N/A
Solubility in water [% weight] : Soluble in water
Solubility in water : N/A
Log Pow octanol / water at 20°C : No data available.
Solubility : N/A
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 : May cause fire or explosion; strong oxidizer.

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. Heat. Sparks.
Overheating. Open flame.
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 criteria 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 : Not established.
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. Hazardous waste due to potential risk of explosion. 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 : BARIUM PERCHLORATE
UN N° : 1447
H.I. nr : 56
ADR - Class : 5.1
Labelling - Transport : 5.1 : Oxidizing substances. 6.1 : Toxic substances.
ADR - Classification code : OT2
ADR - Group : II
ADR - Packing instructions : P002

ADR - Limited Quantity : 1 KG
ADR - Tunnel code : E : Passage forbidden through tunnels of category E.
14.2. Sea transport (IMDG) [English only]
Proper shipping name : BARIUM PERCHLORATE
UN N° : 1447
IMO-IMDG - Class or division : 5.1 : Oxidizing substances. (6.1 : Toxic substances.)
IMO-IMDG - Packing group : II
IMO- IMDG - Packing instructions : P002
IMO-IMDG - Limited quantities : 1 kg
IMO-IMDG - Marine pollution : No
EMS-Nr : F-H S-Q
14.3. Air transport (ICAO-IATA) [English only]
Proper shipping name : BARIUM PERCHLORATE
UN N° : 1447
IATA - Class or division : 5.1 : Oxidizing substances. (6.1 : Toxic substances.)
IATA - Packing group : II
IATA - Passenger and Cargo Aircraft : ALLOWED -
Passenger and Cargo - Packing : 558
instruction -
Passenger and Cargo - Maximum : 5 kg
Quantity/Packing
IATA - Cargo only : ALLOWED
- Cargo only - Packing instruction : 562
- Cargo only - Maximum Quantity/ : 25 kg
Packing-
IATA - Limited Quantites : 1 kg
ERG-Nr : 5P

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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