Material Safety Data Sheet

SODIUM DI CHROMATE AR DIHYDRATE (RXSOL-60-6605-497)

1. Product and Company Identifaction

Product Name	RXSOL-60-6605-497
Product Type	SODIUM DICHROMATE (DIHYDRATE) AR
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
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2. Composition / informationon ingredients

Substance / Preparation : Sodium dichromate dihydrate
CAS No :007789-12-0
Substance.

Substance name	Contents	CAS No
Sodium dichromate dihydrate :	100 %	7789-12-0

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 : O; R8
Carc. Cat. 2; R45
Muta. Cat. 2; R46
Repr. Cat. 2; R60-61
T+; R26
T; R25-R48/23
Xn; R21
C; R34
Xn ; R42/43
N; R50-53
Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)
Health hazards : Carcinogenicity - Category 1B - Danger (CLP : Carc. 1B) H350
Reproductive toxicity - Fertility - Category 1B - Danger (CLP : Repr. 1B) H360
Reproductive toxicity - Unborn Child - Category 1B - Danger (CLP : Repr. 1B) H360
Specific Target Organ Toxicity - Repeated exposure - Category 1 - Danger (CLP :STOT RE 1) H372
Acute toxicity, Oral - Category 3 - Danger (CLP : Acute Tox. 3) H301
Skin sensitisation - Category 1 - Warning (CLP : Skin Sens. 1) H317
Serious eye damage - Category 1 - Danger (CLP : Eye Dam. 1) H318
Skin corrosion - Category 1B - Danger (CLP : Skin Corr. 1B) H314
Acute toxicity, Inhalation - Category 2 - Danger (CLP : Acute Tox. 2) H330
Respiratory sensitization - Category 1 - Danger (CLP : Resp. Sens. 1) H334
Germ cell mutagenicity - Category 1B - Danger (CLP : Muta. 1B) H340
Acute toxicity, dermal - Category 4 - Warning (CLP : Acute Tox. 4) H312
Physical hazards : Oxidizing solids - Category 1 - Danger (CLP : Ox. Sol. 1) H271
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
Symbol(s) : T+ : Very toxic
N : Dangerous for the environment
O : Oxidizing

R Phrase(s) : R45 : May cause cancer.
R46 : May cause heritable genetic damage.
R60 : May impair fertility.
R61 : May cause harm to the unborn child.
R8 : Contact with combustible material may cause fire.
R21 : Harmful in contact with skin.
R25 : Toxic if swallowed.
R26 : Very toxic by inhalation.
R34 : Causes burns.
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.
S Phrase(s) : 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 : Danger
Hazard statements : H271 : May cause fire or explosion; strong oxidizer.
H330 : Fatal if inhaled.
H314 : Causes severe skin burns and eye damage.
H301 : Toxic if swallowed.
H350 : May cause cancer.
H340 : May cause genetic defects.
H360F : May damage fertility.
H312 : Harmful in contact with skin.
H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 : May cause an allergic skin reaction.
H372 : Causes damage to organs through prolonged or repeated exposure.
H410 : Very toxic to aquatic life with long lasting effects.
H360D: May damage the unborn child.
Precautionary statements
• General : P201: Obtain special instructions before use.
• Prevention : P210: Keep away from heat, sparks, open flames or hot surfaces. – No smoking.
P284: 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.
P220: Keep away from clothing - combustible materials.
P264: Wash thoroughly 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 : P371+P380+P375: In case of major fire and large quantities : Evacuate area. Fight
fire remotely due to the risk of explosion.
P302+P352: IF ON SKIN : Wash with plenty of soap and water.
P301+P330+P331: IF SWALLOWED : Rinse mouth. Do NOT induce vomiting.
P308+P313: If exposed or concerned : get medical advice.
P391: Collect spillage.
P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.
P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.
P306+P360: IF ON CLOTHING : Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
P333+P313: If skin irritation or rash occurs : Get medical advice.
P342+P311: If experiencing respiratory symptoms : Call a POISON CENTER or doctor.
P363: Wash contaminated clothing before reuse.
P314: Get medical advice if you feel unwell.
P370+P378: In case of fire: Use for extinction.

• 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 hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Special labelling : Restricted to professional users. (Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008)
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 : Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor. Specific treatment is urgent (see on this label). If experiencing respiratory symptoms :
Skin contact : Immediately call a POISON CENTER or doctor. If skin irritation or rash occurs : Get medical advice. Wash with plenty of soap and water. Wash contaminated clothing before reuse. Remove/Take off immediately all contaminated clothing. Specific treatment (see on this label). IF ON CLOTHING : Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
Eye contact : Rinse cautiously with water for several minutes. Immediately call a POISON CENTER or doctor. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion : Do NOT induce vomiting. Rinse mouth. Specific treatment (see on this label). Immediately call a POISON CENTER or doctor.
4.2. Most important symptoms and effects, both acute and delayed
Symptoms relating to use : May cause cancer. May cause genetic defects. Causes damage to organs through prolonged or repeated exposure. Fatal if inhaled. Causes severe skin burns and eye damage. Causes serious eye damage. May damage fertility. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May damage the unborn child. Swallowing a small quantity of this material will result in serious health hazard. Repeated exposure to this material can result in absorption through skin causing significant health hazard.
4.3. Indication of any immediate medical attention and special treatment needed
General information : P308+P313: If exposed or concerned : get medical advice. Never give anything by mouth to an unconscious person. If exposed or concerned : get medical advice.

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. Thermal decomposition generates : Corrosive vapours.
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. 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 : Obtain special instructions before use. Wash contaminated clothing before reuse. Do not breathe dust, fume, gas, mist, vapours, spray. Contaminated work clothing should not be allowed out of the workplace. Take any precaution to avoid mixing with combustibles. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Do not eat, drink or smoke when using this product. Eliminate all ignition sources if safe to do so. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area.
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 in fireproof place. Keep container tightly closed.
Storage regulation : Comply with applicable regulations.
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 : Wear respiratory protection.
• Hand protection : Wear protective gloves.
• Skin protection : Wear suitable protective clothing.
• Eye protection : Chemical goggles or face shield.
• 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] : 91 °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] : 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 : 10
Density [g/cm3] : 2,35
Relative density, gas (air=1) : N/A
Relative density, liquid (water=1) : N/A
Solubility in water [% weight] : Soluble in water (73
Solubility in water : N/A
Log Pow octanol / water at 20°C : No data available.
Solubility : 3.5-4.0
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.
Thermal decomposition generates : Corrosive vapours.

11. Toxicological information

11.1. Information on toxicological effects
Acute toxicity
• Inhalation : Fatal if inhaled.
• Dermal : Harmful in contact with skin.
• Ingestion : Toxic if swallowed.
Corrosion : Causes severe skin burns and eye damage. Causes serious eye damage.
Irritation : Based on available data, the classification criteria are not met.
Sensitization : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Mutagenicity : May cause genetic defects.
Carcinogenicity : May cause cancer.
Toxic for reproduction : May damage fertility. May damage the unborn child.
STOT-single exposure : Based on available data, the classification criteria are not met.
STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure.
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 in the 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 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.
Special precautions : Hazardous waste due to toxicity.

14. Transport information

14.1. Land transport (ADR-RID)
Proper shipping name: Oxidizing solid, toxic, n.o.s.
UN N°: 3087
H.I. nr : 665
ADR - Class: 5.1(6.1)
Labelling - Transport: 5.1 : Oxidizing substances.6.1 : Toxic substances.
ADR - Classification code: TO2
ADR - Group: I I
ADR - Packing instructions: P002
ADR - Limited Quantity: 0
ADR - Tunnel code : C/E : Tank carriage: Passage forbidden through tunnels of category C, D and E. Other carriage: Passage forbidden through tunnels of category E.
14.2. Sea transport (IMDG) [English only]
Proper shipping name: Oxidizing solid, toxic, n.o.s.
UN N°: 3087
IMO-IMDG - Class or division: 5.1 : Oxidizing substances. (6.1 : Toxic substances.)
IMO-IMDG - Packing group: I I
IMO- IMDG - Packing instructions: P002
IMO-IMDG - Limited quantities: None
IMO-IMDG - Marine pollution: Yes
EMS-Nr: F-A S-Q
14.3. Air transport (ICAO-IATA) [English only]
Proper shipping name : Oxidizing solid, toxic, n.o.s.
UN N° : 3087
IATA - Class or division: 5.1 : Oxidizing substances. (6.1 : Toxic substances.)
IATA - Packing group : I I
IATA - Passenger and Cargo Aircraft : ALLOWED
- Passenger and Cargo - Packing : 665
instruction
- Passenger and Cargo - Maximum : 1 kg
Quantity/Packing
IATA - Cargo only : ALLOWED
- Cargo only - Packing instruction : 672
- Cargo only - Maximum Quantity/ : 15 kg
Packing
ERG-Nr : 6X

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 : With the exception of those listed below:
The components of this product are not subject to restrictions.
Annex XVII
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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