Material Safety Data Sheet

COBALT II CHLORIDE AR HEXAHYDRATE (RXSOL-60-6604-338)

1. Product and Company Identifaction

Product Name : RXSOL-60-6604-339

Product Type :COBALT (II) CHLORIDE LR (HEXAHYDRATE)

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / informationon ingredients

Substance / Preparation: COBALT (II) CHLORIDE LR (HEXAHYDRATE)
CAS No :7791-13-1
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 : Xn; R22
Xn ; R42/43
N; R50-53
Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)
Health hazards : Skin sensitisation - Category 1 - Warning (CLP : Skin Sens. 1) H317
Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302
Respiratory sensitization - Category 1 - Danger (CLP : Resp. Sens. 1) H334
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 : Toxic N : Dangerous for the environment
R Phrase(s) : R49 : May cause cancer by inhalation.
R22 : Harmful if swallowed.
R24 : Toxic in contact with skin.
R37 : Irritating to respiratory system.
R42/43 : May cause sensitization by inhalation and skin contact.
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.
S22 : Do not breathe dust.
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 : H302 : Harmful if swallowed.
H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 : May cause an allergic skin reaction.
H410 : Very toxic to aquatic life with long lasting effects.

Precautionary statements
• Prevention : P285: In case of inadequate ventilation wear respiratory protection.
P280: Wear protective gloves, protective clothing, eye protection, face protection
. 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.
P272: Contaminated work clothing should not be allowed out of the workplace.
• Response : P302+P352: IF ON SKIN : Wash with plenty of soap and water.
P301+P312: IF SWALLOWED : Call a POISON CENTER or doctor if you feel unwell.
P391: Collect spillage.
P304+P341: IF INHALED : If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
P333+P313: If skin irritation or rash occurs : Get medical advice.
P342+P311: If experiencing respiratory symptoms : Call a POISON CENTERor doctor.
P363: Wash contaminated clothing before reuse
. • 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 : If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms
: Skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash contaminated clothing before reuse. Wash with plenty of soap and water. If skin irritation or rash occurs : Specific treatment (see on this label). Get medical advice.
Eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
Ingestion : Obtain emergency medical attention. Do NOT induce vomiting. Rinse mouth. Call a POISON CENTER or doctor if you feel unwell.
4.2. Most important symptoms and effects, both acute and delayed
Symptoms relating to use : Swallowing a small quantity of this material will result in serious health hazard. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction
. 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 : Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Avoid breathing dust, fume, gas, mist, vapours, spray.
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 inadequate ventilation wear respiratory protection.
• 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] : 860C
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] : 1100C
Initial boiling point [°C] : N/A
Final boiling point [°C] : N/A
rate : N/A Vapour pressure [20°C] : N/A
Vapour pressure mm/Hg : N/A
Vapour density : N/A
Density [g/cm3] : 1,92 Relative density, gas (air=1) : N/A
Relative density, liquid (water=1) : N/A
Solubility in water [% weight] : 76.7 g/100 cc water
Solubility in water : N/A Log Pow octanol / water at 20°C : No data available.
Solubility : 4,6 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 : Based on available data the classification criteria are not met.
• 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 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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 : 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 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. 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 : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
SOLID, N.O.S.
UN N° : 3077
H.I. nr : 90
ADR - Class : 9
Labelling - Transport : 9 : Miscellaneous dangerous substances and articles
. ADR - Classification code : M7
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 : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
SOLID, N.O.S.
UN N° : 3077
IMO-IMDG - Class or division : 9 : Miscellaneous dangerous substances and articles
. 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-F
14.3. Air transport (ICAO-IATA) [English only]
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
UN N° : 3077
IATA - Class or division : 9 : Miscellaneous dangerous substances and articles
. IATA - Packing group : III
IATA - Passenger and Cargo Aircraft : ALLOWED
- Passenger and Cargo - Packing : 956
instruction
- Passenger and Cargo - Maximum : 400 kg
Quantity/Packing
IATA - Cargo only : ALLOWED
- Cargo only - Packing instruction : 956
- Cargo only - Maximum Quantity/ : 400 kg
Packing
IATA - Limited Quantites : 30 kgG
ERG-Nr : 9L

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Safety, health and environmental regulations/legislation specific for the substance or mixture : Ensure all national/local regulations are observed.
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 Directivese. 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
Further information : None.
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