Material Safety Data Sheet

COBALT II NITRATE HEXAHYDRATE (RXSOL-19-6604-341)

1. Product and Company Identifaction

Product Name	RXSOL-19-6604-3
Product Type	COBALT (II) NITRATE AR (HEXAHYDRATE)

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
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2. Composition / informationon ingredients

2.1 Substances : COBALT (II) NITRATE AR (HEXAHYDRATE)
CAS-No. : 10026-22-9

Substance name	Contents	CAS No
Cobalt (Ii) Nitrate Substance.	100%	10026-22-9.

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 according to Regulation (EC) No 1272/2008
Oxidizing solids (Category 2), H272
Acute toxicity, Oral (Category 4), H302
Respiratory sensitisation (Category 1), H334
Skin sensitisation (Category 1), H317
Germ cell mutagenicity (Category 2), H341
Carcinogenicity, Inhalation (Category 1B), H350i
Reproductive toxicity (Category 1B), H360F
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410
For the full text of the H-Statements mentioned in this Section, see Section 16.
3.2 Label elements
Labelling according Regulation (EC) No 1272/2008
Symbol(s) : O : Oxidizing
Xn : Harmful
R Phrase(s) : R22: Harmful if swallowed.
R40 : Possible risk of very serious irreversible effects.
R43 : May cause sensitization by skin contact.
S Phrase(s) : S24: Avoid contact with skin.
S37 : Wear suitable gloves.
Labelling according Regulation (EC) No 1272/2008
Hazard pictograms

Signal word : Danger
Hazard statement(s)
H272 May intensify fire; oxidizer.
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341 Suspected of causing genetic defects.

H350i May cause cancer by inhalation.
H360F May damage fertility.
H410 Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)
P201 Obtain special instructions before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284 Wear respiratory protection.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
Supplemental Hazard Statements none
Restricted to professional users.
3.3 Other hazards
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

4. First Aid Measures

4.1 Description of first aid measures
•General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.
•If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
•In case of skin contact
Wash off with soap and plenty of water.
Consult a physician.
•In case of eye contact
Flush eyes with water as a precaution.
•If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water.
Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. Fire-fighting Measures

5.1 Extinguishing media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2 Special hazards arising from the substance or mixture
Nitrogen oxides (NOx), Cobalt/cobalt oxides
5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.
5.4 Further information
Use water spray to cool unopened containers.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation.Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
6.3 Methods and materials for containment and cleaning up
Sweep up and shovel.\'20 Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. Handling and Storage

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.Keep away from heat and sources of ignition.
For precautions see section 2.2.
7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): Oxidizing hazardous materials
7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. Exposure controls and personal protection

8.1 Control parameters
8.2 Exposure controls
Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
•Personal protective equipment
•Eye/face protection Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
•Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique
(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industria situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.
•Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
•Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
• Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Discharge into the environment must be avoided.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties
Odour Threshold : No data available
pH: 4.0 at 100 g/l at 20 °C
Melting point/range: 55 °C - lit.
Initial boiling point and boiling range :No data available
Flash point: Not applicable
Evaporation rate: No data available
Flammability (solid, gas) :No data available
Upper/lower flammability or explosive limits: No data available
Vapour pressure: No data available
Vapour density: No data available
Relative density :1.88 g/cm3
Water solubility: soluble
Partition coefficient noctanol/ water : No data available
Auto-ignition temperature :No data available
Decomposition temperature: No data available
Viscosity: No data available
Explosive properties: No data available

Oxidizing properties : The substance or mixture is classified as oxidizing with the category 2.
9.2 Other safety information
Bulk density 8,000 kg/m3

10. Stability and reactivity

10.1 Reactivity
No data available
10.2 Chemical stability
Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions
No data available
10.4 Conditions to avoid
Heat Exposure to moisture
10.5 Incompatible materials
Organic materials, Reducing agents
10.6 Hazardous decomposition products
Other decomposition products - No data available
Hazardous decomposition products formed under fire conditions. - Nitrogen oxides (NOx), Cobalt/cobalt oxides
In the event of fire: see section 5

11. Toxicological information

11.1 Information on toxicological effects
•Acute toxicity
LD50 Oral - Rat - 691 mg/kg(Cobaltous nitrate, hexahydrate)
LD50 Oral - Rat - 434 mg/kg(Cobaltous nitrate, hexahydrate)
Remarks: anhydrous
•Skin corrosion/irritation
No data available(Cobaltous nitrate, hexahydrate)
•Serious eye damage/eye irritation
No data available(Cobaltous nitrate, hexahydrate)
•Respiratory or skin sensitisation
No data available(Cobaltous nitrate, hexahydrate)
•Germ cell mutagenicity
In vitro tests showed mutagenic effects(Cobaltous nitrate, hexahydrate)
No data available(Cobaltous nitrate, hexahydrate)
•Carcinogenicity
Possible human carcinogen(Cobaltous nitrate, hexahydrate)
(Cobaltous nitrate, hexahydrate)
IARC: 2B - Group 2B: Possibly carcinogenic to humans (Cobaltous nitrate, hexahydrate)
2B - Group 2B: Possibly carcinogenic to humans (Cobaltous nitrate, hexahydrate)
•Reproductive toxicity
No data available(Cobaltous nitrate, hexahydrate)
Presumed human reproductive toxicant(Cobaltous nitrate, hexahydrate)
•Specific target organ toxicity - single exposure
No data available(Cobaltous nitrate, hexahydrate)
•Specific target organ toxicity - repeated exposure
No data available
•Aspiration hazard
No data available(Cobaltous nitrate, hexahydrate)
•Additional Information
RTECS: QU7355500
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(Cobaltous nitrate, hexahydrate)

12. Ecological information

12.1 Toxicity
No data available
12.2 Persistence and degradability
No data available
12.3 Bioaccumulative potential
No data available
12.4 Mobility in soil
No data available(Cobaltous nitrate, hexahydrate)
12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. 12.6 Other adverse effects
Very toxic to aquatic life.
No data available

13. Disposal considerations

13.1 Waste treatment methods
Product
Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.
•Contaminated packaging
Dispose of as unused product.

14. Transport information

14.1 UN number
ADR/RID: 1477 IMDG: 1477 IATA: 1477
14.2 UN proper shipping name
ADR/RID: NITRATES, INORGANIC, N.O.S. (Cobaltous nitrate, hexahydrate)
IMDG: NITRATES, INORGANIC, N.O.S. (Cobaltous nitrate, hexahydrate)
IATA: Nitrates, inorganic, n.o.s.
14.3 Transport hazard class(es)
ADR/RID: 5.1 IMDG: 5.1 IATA: 5.1
14.4 Packaging group
ADR/RID: II IMDG: II IATA: II
14.5 Environmental hazards
ADR/RID: no IMDG Marine pollutant: no IATA: no
14.6 Special precautions for user
No data available

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
Authorisations and/or restrictions on use
15.2 Chemical safety assessment
For this product a chemical safety assessment was not 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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