# Material Safety Data Sheet

**CHLOROACETYL CHLORIDE FOR SYNTHESIS** (RXSOL-60-6604-303)

## 1. Product and Company Identifaction

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|---|---|
| Product Name | RXSOL-60-6604-303 |
| Product Type | CHLOROACETYL CHLORIDE FOR SYNTHESIS |
| 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

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## 2. Composition / informationon ingredients

2.1. Substances : CHLOROACETIC ACID For Synthesis
CAS-No. : 79- 04- 9
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 according to Regulation (EC) No. 1272/2008 [CLP]
Acute toxicity (oral), H301
Category 3
Acute toxicity (dermal),
Category 3
H311
Acute toxicity (inhal.), H331
Category 3
Skin corrosion/irritation, H314
Category 1B
Hazardous to the aquatic
environment — Acute Hazard, H400
Category 1
Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]
Adverse physicochemical, human health and environmental effects
No additional information available
3.2. Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling to displayExtra classification(s) to display
Symbol(s) : T : Very toxic
N : Dangerous for the environment
Highly flammable
R Phrase(s) : R14: Reacts violently with water.
R35: Cause severe burns.
R50: Very toxic to aquatic organisms.
R23/24/25 : Toxic by Inhalation, in contact with skin and if swallowed.
R48/23 : Toxic: danger of serious damage to health by prolonged exposure through inhalation
S Phrase(s) : S7/8 : Keep container tightly closed and dry.
S36/37/39 : Wear suitable protective clothing and gloves & eye/face protecting.
S9: keep container in a well ventilated place.
S26: In the case of contact with eyes, rinse immediately with plenty of water and seek

medical advise.
S45:In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S61: avoid release to the environment . refer to special instruction/safety data sheets.
Hazard pictograms

Signal word : Danger
Hazard statements : H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled
H314 - Causes severe skin burns and eye damage.
H400 - Very toxic to aquatic life.
Precautionary statements : P261 - Avoid breathing vapours, spray, dust, fume, gas.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER/doctor
3.3. Other hazards
No additional information available
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## 4. First Aid Measures

4.1. Description of first aid measures
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
First-aid measures after skin contact : Immediately call a POISON CENTER/doctor. Wash with plenty of water/…. Wash contaminated clothing before reuse.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
First-aid measures after ingestion : Rinse mouth. Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.
4.2. Most important symptoms and effects, both acute and delayed
Symptoms/effects : Causes severe skin burns and eye damage.
Symptoms/effects after skin contact : Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin.
Symptoms/effects after ingestion : Toxic if swallowed. 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
No additional information available

## 5. Fire-fighting Measures

5.1. Extinguishing media
Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitable extinguishing media : Do not use a heavy water stream.
5.2. Special hazards arising from the substance or mixture
No additional information available
5.3. Advice for firefighters
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## 6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
Emergency procedures : Evacuate unnecessary personnel.
6.1.2. For emergency responders
Protective equipment : Use personal protective equipment as required.
Emergency procedures : Ventilate area.
6.2. Environmental precautions
Very toxic to aquatic life.
6.3. Methods and material for containment and cleaning up
Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers.

6.4. Reference to other sections
No additional information available

## 7. Handling and Storage

7.1. Precautions for safe handling
Precautions for safe handling : Avoid contact with skin and eyes. Do not breathe vapours.
Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, including any incompatibilities
Technical measures : Comply with applicable regulations.
Storage conditions : Store in a well-ventilated place. Keep container tightly closed.
7.3. Specific end use(s)
No additional information available

## 8. Exposure controls and personal protection

8.1. Control parameters
No additional information available
8.2. Exposure controls
Hand protection : Protective gloves
Eye protection : Chemical goggles or face shield
Skin and body protection : Wear suitable protective clothing
Respiratory protection : [In case of inadequate ventilation] wear respiratory protection.

## 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties
Odour threshold : No data available
pH : 1 at 800 g/l at 20 °C
Relative evaporation rate (butylacetate=1) : No data available
Melting point : 60 - 63 °C
Freezing point : No data available
Boiling point : 189 °C
Flash point : 126 °C
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : 0.2 hPa at 20 °C
Relative vapour density at 20 °C : 3.26
Relative density : No data available
Density : 1.58 g/cm³
Solubility : Water: Very soluble in water
Log Pow : 0.2
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : ? 0.08 vol %
9.2. Other information
No additional information available

## 10. Stability and reactivity

10.1. Reactivity
No additional information available
10.2. Chemical stability Stable under normal conditions.
10.3. Possibility of hazardous reactions
No additional information available
10.4. Conditions to avoid
Air contact. Moisture.
10.5. Incompatible materials
No additional information available
10.6. Hazardous decomposition products
Thermal decomposition generates : Corrosive vapours.

## 11. Toxicological information

11.1. Information on toxicological effects
Acute toxicity : Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation: Toxic if inhaled.
Skin corrosion/irritation : Causes severe skin burns and eye damage.
pH: 1 at 800 g/l at 20 °C
Serious eye damage/irritation : Serious eye damage, category 1, implicit
pH: 1 at 800 g/l at 20 °C
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
Potential adverse human health effects and symptoms : Toxic if swallowed. Toxic in contact with skin.

## 12. Ecological information

12.1. Toxicity
Ecology - water : Very toxic to aquatic life.
12.2. Persistence and degradability
No additional information available
12.3. Bioaccumulative potential
Log Pow 0.2
12.4. Mobility in soil
No additional information available
12.5. Results of PBT and vPvB assessment
No additional information available
12.6. Other adverse effects
No additional information available

## 13. Disposal considerations

13.1. Waste treatment methods
Product/Packaging disposal Recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Ecology - waste materials : Hazardous waste due to toxicity.

## 14. Transport information

In accordance with ADR / RID / IMDG / IATA / ADN
14.1. UN number
UN-No. (ADR) : 1751
UN-No. (IMDG) : 1751
UN-No. (IATA) : 1751
UN-No. (ADN) : 1751
UN-No. (RID) : 1751
14.2. UN proper shipping name
Proper Shipping Name (ADR) : CHLOROACETIC ACID, SOLID
Proper Shipping Name (IMDG) : CHLOROACETIC ACID, SOLID
Proper Shipping Name (IATA) : Chloroacetic acid, solid
Proper Shipping Name (ADN) : CHLOROACETIC ACID, SOLID
Proper Shipping Name (RID) : CHLOROACETIC ACID, SOLID
Transport document description (ADR) : UN 1751 CHLOROACETIC ACID, SOLID, 6.1 (8), II, (D/E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG) : UN 1751 CHLOROACETIC ACID, SOLID, 6.1 (8), II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA) : UN 1751 Chloroacetic acid, solid, 6.1, II, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN) : UN 1751 CHLOROACETIC ACID, SOLID, 6.1 (8), II, ENVIRONMENTALLY HAZARDOUS

Transport document description (RID) : UN 1751 CHLOROACETIC ACID, SOLID, 6.1 (8), II, ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es)

ADR- Transport hazard class(es) (ADR) : 6.1 (8)
Danger labels (ADR) : 6.1, 8
IMDG- Transport hazard class(es) (IMDG) : 6.1 (8)
Danger labels (IMDG) : 6.1, 8
IATA- Transport hazard class(es) (IATA) : 6.1 (8)
Hazard labels (IATA) : 6.1, 8
ADN- Transport hazard class(es) (ADN) : 6.1 (8)
Danger labels (ADN) : 6.1, 8
RID- Transport hazard class(es) (RID) : 6.1 (8)
Danger labels (RID) : 6.1, 8

14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II
Packing group (ADN) : II
Packing group (RID) : II

14.5. Environmental hazards

Dangerous for the environment : Yes
Marine pollutant : Yes
Other information : No supplementary information available

14.6. Special precautions for user

Overland transport- Classification code (ADR) : TC2
Limited quantities (ADR) : 500g
Excepted quantities (ADR) : E4
Packing instructions (ADR) : P002, IBC08
Special packing provisions (ADR) : B4
Mixed packing provisions (ADR) : MP10
Portable tank and bulk container instructions (ADR) : T3
Portable tank and bulk container special provisions (ADR) : TP33
Tank code (ADR) : SGAH Tank special provisions (ADR) : TU15, TE19
Vehicle for tank carriage : AT
Transport category (ADR) : 2
Special provisions for carriage – Packages (ADR) : V11
Special provisions for carriage - Loading, unloading and handling (ADR) : CV13, CV28
Special provisions for carriage – Operation (ADR) : S9, S19
Hazard identification number (Kemler No.) : 68
Orange plates :
Tunnel restriction code (ADR) : D/E
EAC code : 2X
Transport by sea- Packing instructions (IMDG) : P002
IBC packing instructions (IMDG) : IBC08
IBC special provisions (IMDG) : B21, B4
Tank instructions (IMDG) : T3
Tank special provisions (IMDG) : TP33
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-B
Stowage category (IMDG) : C
Stowage and handling (IMDG) : SW2
Properties and observations (IMDG) : Colourless, very deliquescent crystals. Melting point may be as low as 50°C. In the presence of moisture, corrosive to most metals. Toxic if swallowed, by skin contact or by dust inhalation. Causes burns to skin, eyes and mucous membranes.
MFAG-No : 153
Air transport- PCA
Excepted quantities (IATA) : E4
PCA Limited quantities (IATA) : Y644
PCA limited quantity max net quantity (IATA) : 1kg
PCA packing instructions (IATA) : 668
PCA max net quantity (IATA) : 15kg
CAO packing instructions (IATA) : 675
CAO max net quantity (IATA) : 50kg
ERG code (IATA) : 6C
Inland waterway transport- Classification code (ADN) : TC2
Special provisions (ADN) : 802
Limited quantities (ADN) : 500 g
Excepted quantities (ADN) : E4
Equipment required (ADN) : PP, EP
Number of blue cones/lights (ADN) : 2
Rail transport- Classification code (RID) : TC2
Excepted quantities (RID) : E4
Packing instructions (RID) : P002, IBC08
Special packing provisions (RID) : B4

Mixed packing provisions (RID) : MP10
Portable tank and bulk container instructions (RID) : T3
Portable tank and bulk container special provisions (RID) : TP33
Tank codes for RID tanks (RID) : SGAH
Special provisions for RID tanks (RID) : TU15
Transport category (RID) : 2
Special provisions for carriage – Packages (RID) : W11
Special provisions for carriage - Loading, unloading and handling (RID) : CW13, CW28, CW31
Colis express (express parcels) (RID) : CE9
Hazard identification number (RID) : 68
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable

## 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
15.1.1. EU-Regulations No REACH Annex XVII restrictions
CHLOROACETIC ACID For Synthesis is not on the REACH Candidate List
CHLOROACETIC ACID For Synthesis is not on the REACH Annex XIV List
15.1.2. National regulations
Germany
Reference to AwSV : Water hazard class (WGK) 3, severe hazard to water (Classification according to
AwSV; ID No. 227) 12th Ordinance Implementing the Federal
Immission Control Act - 12.BImSchV : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Netherlands
SZW-lijst van kankerverwekkende stoffen : The substance is not listed
SZW-lijst van mutagene stoffen : The substance is not listed
NIET-limitatieve lijst van voor de
voortplanting giftige stoffen – Borstvoeding : The substance is not listed
NIET-limitatieve lijst van voor de
voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed
NIET-limitatieve lijst van voor de
voortplanting giftige stoffen – Ontwikkeling : The substance is not listed
Denmark
Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product
15.2. Chemical safety assessment
No additional information available

## 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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