

1. Product and Company Identification

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

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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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

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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

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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

5.1. 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

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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

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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

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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

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9.1. Information on basic physical and chemical properties

Odour threshold : No data available

pH :

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

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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

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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:

Serious eye damage/irritation : Serious eye damage, category 1, implicit

pH:

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

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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

13. Disposal considerations

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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

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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

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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. BImSchV (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

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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.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation

(CE) N° 1272/2008

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