

## 1. Product and Company Identification

www.rxmarine.com

Product Name RXSOL-60-6604-323  
Product Type CHROMIUM TRIOXIDE (CHROMIC ACID)  
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 / Information on ingredients

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2.1. Substance : Chromium Trioxide

CAS No : 1333-82-0

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]

Oxidising Solids, H271

Category 1

Acute toxicity (oral), H301

Category 3

Acute toxicity (dermal), H311

Category 3

Acute toxicity (inhal.), H330

Category 2

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Skin corrosion/irritation, H314

Category 1A

Sensitisation ☒

Respiratory, category 1 H334

Sensitisation ☒ Skin, category 1 H317

Germ cell mutagenicity, H340

Category 1B

Carcinogenicity, Category 1A H350

Reproductive toxicity,

Category 2

H361f

Specific target organ

toxicity ☒ Repeated H372

exposure, Category 1

Hazardous to the aquatic

environment ☒ Chronic

Hazard, Category 1 H410

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): O : Oxidizing

T : Very toxic

N : Dangerous for the environment

R Phrase(s):R45: CC

R46: May Cause heritable genetic damage.

R9: Explosive when mixed combustible material.

S Phrase(s):S53: Avoid exposure ☒ obtain special instruction before use.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S60: This material and its container must be disposed of as hazardous waste

S61: avoid release to the environment . refer to special instruction/safety data sheets.

Hazard pictograms

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Signal word : Danger

Hazard statements : H271 - May cause fire or explosion; strong oxidiser

H301+H311 - Toxic if swallowed or in contact with skin

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

H330 - Fatal if inhaled

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H340 - May cause genetic defects

H350 - May cause cancer

H361f - Suspected of damaging fertility

H372 - Causes damage to organs through prolonged or repeated exposure

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements : P201 - Obtain special instructions before use

P220 - Keep away from clothing and other combustible materials

P260 - Do not breathe vapours, spray, dust, fume, gas

P273 - Avoid release to the environment

P284 - [In case of inadequate ventilation] wear respiratory protection

### 3.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex

XIII

## 4. First Aid Measures

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### 4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : Get medical advice/attention. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Assure fresh air breathing.

First-aid measures after skin contact : Get medical advice/attention. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm

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water rinse. Wash with plenty of soap and water.

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 or doctor/physician.

First-aid measures after ingestion : Rinse mouth. Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Causes severe skin burns and eye damage. May cause genetic defects. Suspected of damaging fertility. Causes damage to organs through prolonged or repeated exposure.

Symptoms/injuries after inhalation : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause cancer by inhalation.

Symptoms/injuries after skin contact : Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin.

Symptoms/injuries 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

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#### 5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray.

Unsuitable extinguishing media : Do not use extinguishing media containing water.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : May cause fire or explosion; strong oxidiser.

Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

#### 5.3. Advice for firefighters

Firefighting instructions : In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

## 6. Accidental Release Measures

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### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : No naked lights. No smoking.

#### 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

Avoid release to the environment.

### 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

Additional hazards when processed : Hazardous waste due to potential risk of explosion.

Precautions for safe handling : Take precautionary measures against static discharge.

Avoid contact with skin and eyes. Provide good ventilation in process area to prevent formation of vapour.

Obtain special instructions before use. Do not breathe vapours. Eliminate all ignition sources if safe to do so.

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. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

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Technical measures : Proper grounding procedures to avoid static electricity should be followed. Comply with applicable regulations.

Storage conditions : Keep in fireproof place. Keep container tightly closed.

Incompatible materials : Heat sources. combustible materials.

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

Personal protective equipment : Wear fire/flammable resistant/retardant clothing.

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 : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point : 196 °C

Freezing point : No data available

Boiling point : No data available

Flash point : No data available

Auto-ignition temperature : No data available

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Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density : No data available

Density : 2.7 g/cm<sup>3</sup>

Solubility : Water: 63 g/100ml @ 20°C

Log Pow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available: The substance or mixture is classified as oxidizing with the subcategory 1. May cause fire or explosion; strong oxidiser.

Explosive limits : No data available

#### 9.2. Other information

No additional information available

## 10. Stability and reactivity

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### 10.1. Reactivity

Thermal decomposition generates : Corrosive vapours.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Direct sunlight. Heat. Sparks. Overheating. Open flame.

### 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:

Fatal if inhaled.

Skin corrosion/irritation : Causes severe skin burns and eye damage.

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

Respiratory or skin sensitisation : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Germ cell mutagenicity : May cause genetic defects.

Carcinogenicity : May cause cancer.

Reproductive toxicity : Suspected of damaging fertility.

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Causes damage to organs through prolonged or repeated exposure.

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 with long lasting effects.

### 12.2. Persistence and degradability

Chromium Trioxide (1333-82-0)

Persistence and degradability May cause long-term adverse effects in the environment.

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex

XIII

12.6. Other adverse effects

No additional information available

## 13. Disposal considerations

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13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container to ...

Additional information : Hazardous waste due to potential risk of explosion.

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) : 1463

UN-No. (IMDG) : 1463

UN-No.(IATA) : 1463

UN-No.(ADN) : 1463

UN-No. (RID) : 1463

14.2. UN proper shipping name

Proper Shipping Name (ADR) : CHROMIUM TRIOXIDE, ANHYDROUS

Proper Shipping Name (IMDG) : CHROMIUM TRIOXIDE, ANHYDROUS

Proper Shipping Name (IATA) : CHROMIUM TRIOXIDE, ANHYDROUS

Proper Shipping Name (ADN) : CHROMIUM TRIOXIDE, ANHYDROUS

Proper Shipping Name (RID) : CHROMIUM TRIOXIDE, ANHYDROUS

Transport document description (ADR) : UN 1463 CHROMIUM TRIOXIDE,

ANHYDROUS, 5.1 (6.1+8), II, (E),

ENVIRONMENTALLY HAZARDOUS

Transport document description (IMDG) : UN 1463 CHROMIUM TRIOXIDE,

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ANHYDROUS, 5.1 (6.1+8), II, MARINE

POLLUTANT/ENVIRONMENTALLY HAZARDOUS

Transport document description (IATA) : UN 1463 CHROMIUM TRIOXIDE

, ANHYDROUS, 5.1, II,

ENVIRONMENTALLY HAZARDOUS

Transport document description (ADN) : UN 1463 CHROMIUM TRIOXIDE,

ANHYDROUS, 5.1 (6.1+8), II,

ENVIRONMENTALLY HAZARDOUS

Transport document description (RID) : UN 1463 CHROMIUM TRIOXIDE,

ANHYDROUS, 5.1 (6.1+8), II,

ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es)

ADR : Transport hazard class(es) (ADR) : 5.1 (6.1, 8)

Danger labels (ADR) : 5.1, 6.1, 8

IMDG : Transport hazard class(es) (IMDG) : 5.1 (6.1, 8)

Danger labels (IMDG) : 5.1, 6.1, 8

IATA : Transport hazard class(es) (IATA) : 5.1 (6.1, 8)

Hazard labels (IATA) : 5.1, 6.1, 8

AND : Transport hazard class(es) (ADN) : 5.1 (6.1, 8)

Danger labels (ADN) : 5.1, 6.1, 8

RID : Transport hazard class(es) (RID) : 5.1 (6.1, 8)

Danger labels (RID) : 5.1, 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

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Classification code (ADR) : OTC

Special provision (ADR) : 510

Limited quantities (ADR) : 1kg

Excepted quantities (ADR) : E2

Packing instructions (ADR) : P002,

IBC08 Special packing provisions (ADR) : B4

Mixed packing provisions (ADR) : MP2

Portable tank and bulk container instructions (ADR) : T3

Portable tank and bulk container special provisions (ADR) : TP33

Tank code (ADR) : SGAN

Tank special provisions (ADR) : TU3

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) : CV24, CV28

Hazard identification number (Kemler No.) : 568

Orange plates : Tunnel restriction code (ADR) : E

EAC code : 1W

- Transport by sea

Limited quantities (IMDG) : 1 kg

Excepted quantities (IMDG) : E2

Packing instructions (IMDG) : P002

Packing provisions (IMDG) : PP31

IBC packing instructions (IMDG) : IBC08

IBC special provisions (IMDG) : B2, B4

Tank instructions (IMDG) : T3

Tank special provisions (IMDG) : TP33

EmS-No. (Fire) : F-A

EmS-No. (Spillage) : S-Q

Stowage category (IMDG) : A

Segregation (IMDG) : SG6, SG16, SG19

MFAG-No : 141

- Air transport

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PCA Excepted quantities (IATA) : E2

PCA Limited quantities (IATA) : Y544

PCA limited quantity max net quantity (IATA) : 2.5kg

PCA packing instructions (IATA) : 558

PCA max net quantity (IATA) : 5kg

CAO packing instructions (IATA) : 562

CAO max net quantity (IATA) : 25kg

ERG code (IATA) : 5CP

- Inland waterway transport

Classification code (ADN) : OTC

Special provisions (ADN) : 510

Limited quantities (ADN) : 1 kg

Excepted quantities (ADN) : E2

Equipment required (ADN) : PP, EP

Number of blue cones/lights (ADN) : 2

- Rail transport

Classification code (RID) : OTC

Special provision (RID) : 510

Limited quantities (RID) : 1kg

Excepted quantities (RID) : E2

Packing instructions (RID) : P002,IBC08

Special packing provisions (RID) : B4

Mixed packing provisions (RID) : MP2

Portable tank and bulk container instructions (RID) : T3

Portable tank and bulk container special

provisions (RID) : TP33

Tank codes for RID tanks (RID) : SGAN

Special provisions for RID tanks (RID) : TU3

Transport category (RID) : 2

Special provisions for carriage ☒ Packages (RID) : W11

Special provisions for carriage ☒ Loading and unloading (RID) : CW24, CW28

Colis express (express parcels) (RID) : CE10

Hazard identification number (RID) : 568

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

## 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

Chromium trioxide is on the REACH Candidate List

Chromium trioxide is on the REACH Annex XIV List:

Authorisation number Sunset date REACH authorization exemptions

21/09/2017

15.1.2. National regulations

Germany

AwSV/VwVwS Annex reference : Water hazard class (WGK) 3, strongly hazardous to water (Classification according to VwVwS, Annex 2; WGK No 328)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

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

The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

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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