

## 1. Product and Company Identification

www.rxmarine.com

Product Name

RXSOL-60-6604-212

Product Type

CADMIUM OXIDE

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

Phone +91 22 27815541 / 42

Fax +91 22 2781 1318 :::AOH :0091 9821214367

Email [mail@rxmarine.com](mailto:mail@rxmarine.com)

## 2. Composition / Information on ingredients

www.rxmarine.com

### Substance / Preparation : ADA BUFFER

CAS No : 64-19-7

Substance.

Contains no other components or impurities which will influence the classification of the product.

## 3. Hazards Identification

www.rxmarine.com

### 3.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (inhal.), H330

Category 2

Germ cell mutagenicity, H341

Category 2

Carcinogenicity, H350

---

Category 1A

Reproductive toxicity, H361fd

Category 2

Specific target organ

toxicity ⓘ Repeated exposure, H372

Category 1

Hazardous to the aquatic

environment ⓘ Chronic Hazard, H410

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

## **2.2. Label elements**

**Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling to display**  
**Extra classification(s) to display**

**Symbol(s) :** T : Very toxic

C: Corrosive

**R Phrase(s) :** R48/23/25 :Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

R50/53:Very toxic to aquatic organisms, may cause long-term adverse effect in the aquatic environment.

R68: Possible risk of irreversible effects.

R62:Possible risk of impaired fertility.

R63: Possible risk of harm to the unborn child.

R45:May cause cancer.

**S Phrase(s) :** 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.

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).

### **Hazard pictograms :**



**Signal word :** Danger

**Hazard statements :** H330 - Fatal if inhaled.

H341 - Suspected of causing genetic defects.

H350 - May cause cancer.

H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child.

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.

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

P273 - Avoid release to the environment.

P281 - Use personal protective equipment as required.

P284 - Wear respiratory protection.

P310 - Immediately call a POISON CENTER/doctor

### **2.3. 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

## 4. First Aid Measures

www.rxmarine.com

### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Gently wash with plenty of soap and water.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do.

Continue rinsing. Rinse cautiously with water for several minutes.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting.

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

Symptoms/effects : May damage fertility. Suspected of damaging the unborn child.

Causes damage to organs through prolonged or repeated exposure.

Symptoms/effects after inhalation : Fatal if inhaled.

Symptoms/effects after ingestion : Harmful if swallowed.

Chronic symptoms : May cause cancer.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## 5. Fire-fighting Measures

www.i

### 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**

[www.rxmarine.com](http://www.rxmarine.com)

### **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**

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**

[www.rxmarine.com](http://www.rxmarine.com)

### **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**

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**

[www.rxmarine.com](http://www.rxmarine.com)

## **8.1. Control parameters**

No additional information available

## **8.2. Exposure controls**

Hand protection : Protective gloves

Eye protection : Chemical goggles or safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

# **9. Physical and chemical properties**

[www.rxmarine.com](http://www.rxmarine.com)

## **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** : 950 °C

**Freezing point** : No data available

**Boiling point** : 1559 °C

**Flash point** : No data available

**Auto-ignition temperature** : No data available

**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**: 8.15 g/cm<sup>3</sup>

**Solubility** : Water: Insoluble in water

**Log Pow** : No data available

**Viscosity, kinematic** : No data available

**Viscosity, dynamic** : No data available

**Explosive properties** : No data available

**Oxidising properties** : No data available

**Explosive limits** : No data available

## **9.2. Other information**

No additional information available

## **10. Stability and reactivity**

[www.rxmarine.com](http://www.rxmarine.com)

### **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. Direct sunlight. Moisture.

## **10.5. Incompatible materials**

No additional information available

## **10.6. Hazardous decomposition products**

No additional information available

# **11. Toxicological information**

[www.rxmarine.com](http://www.rxmarine.com)

## **11.1. Information on toxicological effects**

Acute toxicity : Inhalation: Fatal if inhaled.

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Suspected of causing genetic defects.

Carcinogenicity : May cause cancer.

Reproductive toxicity : Suspected of damaging fertility. Suspected of damaging the unborn child.

STOT-single exposure : Not classified

STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure.

## 12. Ecological information

[www.rxmarine.com](http://www.rxmarine.com)

### 12.1. Toxicity

Ecology - water : Very toxic to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

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

[www.rxmarine.com](http://www.rxmarine.com)

### 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.

## 14. Transport information

[www.rxmarine.com](http://www.rxmarine.com)

In accordance with ADR / RID / IMDG / IATA / ADN

---

### **14.1. UN number**

UN-No. (ADR) : 2570

UN-No. (IMDG) : 2570

UN-No. (IATA) : 2570

UN-No. (ADN) : 2570

UN-No. (RID) : 2570

### **14.2. UN proper shipping name**

Proper Shipping Name (ADR) : CADMIUM COMPOUND

Proper Shipping Name (IMDG) : CADMIUM COMPOUND

Proper Shipping Name (IATA) : Cadmium compound

Proper Shipping Name (ADN) : CADMIUM COMPOUND

Proper Shipping Name (RID) : CADMIUM COMPOUND

Transport document description (ADR) : UN 2570 CADMIUM COMPOUND, 6.1, III,  
(E), ENVIRONMENTALLY HAZARDOUS

Transport document description (IMDG) : UN 2570 CADMIUM COMPOUND, 6.1, III,  
MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS

Transport document description (IATA) : UN 2570 Cadmium compound, 6.1, III,  
ENVIRONMENTALLY HAZARDOUS

Transport document description (ADN) : UN 2570 CADMIUM COMPOUND, 6.1, III,  
ENVIRONMENTALLY HAZARDOUS

Transport document description (RID) : UN 2570 CADMIUM COMPOUND, 6.1, III,  
ENVIRONMENTALLY HAZARDOUS

### **14.3. Transport hazard class(es)**

**ADR-** Transport hazard class(es) (ADR) : 6.1

Danger labels (ADR) : 6.1

**IMDG-** Transport hazard class(es) (IMDG) : 6.1

---

Danger labels (IMDG) : 6.1

**IATA-** Transport hazard class(es) (IATA) : 6.1

Hazard labels (IATA) : 6.1

**ADN-** Transport hazard class(es) (ADN) : 6.1

Danger labels (ADN) : 6.1

**RID-** Transport hazard class(es) (RID) : 6.1

Danger labels (RID) : 6.1

#### **14.4. Packing group**

Packing group (ADR) : III

Packing group (IMDG) : III

Packing group (IATA) : III

Packing group (ADN) : III

Packing group (RID) : III

#### **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) : T5

Special provisions (ADR) : 274, 596

Limited quantities (ADR) : 5kg

Excepted quantities (ADR) : E1

Packing instructions (ADR) : P002, IBC08, LP02, R001

Special packing provisions (ADR) : B3

Mixed packing provisions (ADR) : MP10

Portable tank and bulk container instructions (ADR) : T1

---

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

Tank code (ADR) : SGAH, L4BH

Tank special provisions (ADR) : TU15, TE19

Vehicle for tank carriage : AT

Transport category (ADR) : 2

Special provisions for carriage ☐ Bulk (ADR) : VC1, VC2, AP7

Special provisions for carriage - Loading,  
unloading and handling (ADR) : CV13, CV28

Special provisions for carriage ☐ Operation (ADR) : S9

Hazard identification number (Kemler No.) : 60

Orange plates :

Tunnel restriction code (ADR) : E

EAC code : 2X

**Transport by sea-** Special provisions (IMDG) : 223, 274

Packing instructions (IMDG) : P002, LP02

IBC packing instructions (IMDG) : IBC08

IBC special provisions (IMDG) : B3

Tank instructions (IMDG) : T1

Tank special provisions (IMDG) : TP33

EmS-No. (Fire) : F-A

EmS-No. (Spillage) : S-A

Stowage category (IMDG) : A

Properties and observations (IMDG) : Powder or crystals with various colours. May be soluble or insoluble in water. Toxic if swallowed, by skin contact or by dust inhalation.

MFAG-No : 154

---

**Air transport-** PCA Excepted quantities (IATA) : E1

PCA Limited quantities (IATA) : Y645

PCA limited quantity max net quantity (IATA) : 10kg

PCA packing instructions (IATA) : 670

PCA max net quantity (IATA) : 100kg

CAO packing instructions (IATA) : 677

CAO max net quantity (IATA) : 200kg

Special provisions (IATA) : A3, A5

ERG code (IATA) : 6L

**Inland waterway transport-** Classification code (ADN) : T5

Special provisions (ADN) : 274, 596, 802

Limited quantities (ADN) : 5 kg

Excepted quantities (ADN) : E1

Equipment required (ADN) : PP, EP

Number of blue cones/lights (ADN) : 0

**Rail transport-** Classification code (RID) : T5

Special provisions (RID) : 274, 596

Excepted quantities (RID) : E1

Packing instructions (RID) : P002, IBC08, LP02, R001

Special packing provisions (RID) : B3

Mixed packing provisions (RID) : MP10

Portable tank and bulk container instructions (RID) : T1

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

Tank codes for RID tanks (RID) : SGAH, L4BH

Special provisions for RID tanks (RID) : TU15

Transport category (RID) : 2

---

---

Special provisions for carriage ☐ Bulk (RID) : VC1, VC2, AP7

Special provisions for carriage - Loading,  
unloading and handling (RID) :

CW13, CW28, CW31

Colis express (express parcels) (RID) :CE11

Hazard identification number (RID) : 60

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

Not applicable

ADR - Packing instructions : P001

ADR - Limited Quantity : 1 L

ADR - Tunnel code : D/E : Bulk or tank carriage: Passage forbidden through tunnels of  
category D and

E. Other carriage: Passage forbidden through tunnels of category E.

14.2. Sea transport (IMDG) [English only]

Proper shipping name : ACETIC ACID,

UN N° : 2789

IMO-IMDG - Class or division : 8 : Corrosive substance. ( 3 : Flammable liquid. )

IMO-IMDG - Packing group : II

IMO- IMDG - Packing instructions : P001

IMO-IMDG - Limited quantities : 1 L

IMO-IMDG - Marine pollution : No

EMS-Nr : F-E S-C

14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name : ACETIC ACID

UN N° : 2789

IATA - Class or division : 8 : Corrosive substance. ( 3 : Flammable liquid. )

IATA - Packing group : II

IATA - Passenger and Cargo Aircraft : ALLOWED

- Passenger and Cargo - Packing : 851

instruction

- Passenger and Cargo - Maximum : 1 L

---

Quantity/Packing

IATA - Cargo only : ALLOWED

- Cargo only - Packing instruction : 855

- Cargo only - Maximum Quantity/ : 30 L

Packing

IATA - Limited Quantities : 0.5 L

ERG-Nr : 8F

## **15. Regulatory information**

[www.rxmarine.com](http://www.rxmarine.com)

### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

#### **15.1.1. EU-Regulations**

No REACH Annex XVII restrictions

Cadmium oxide is on the REACH Candidate List

CADMIUM OXIDE AR 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. 8660)

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 : CADMIUM OXIDE AR is 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

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**

[www.rxmarine.com](http://www.rxmarine.com)

**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

**DISCLAIMER OF LIABILITY** :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.