

## 1. Product and Company Identification

www.rxmarine.com

Product Name **RXSOL-60-6604-233**  
Product Type CALCIUM NITRATE AR  
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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Email [mail@rxmarine.com](mailto:mail@rxmarine.com)

## 2. Composition / Information on ingredients

www.rxmarine.com

### 2.1. Substances : CALCIUM NITRATE AR

CAS-No. : 13477-34-4

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]**

Oxidising Solids, H272

Category 3

**Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]**

O; Xi; R8

**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 display**  
Extra classification(s) to display

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**Symbol(s) :** O : Oxidizing

Xi : Irritation.

**R Phrase(s) :** R8: Contact with combustible material may cause fire.

R36/38: Irritating to eyes and skin.

**S Phrase(s) :** S17: Keep away from combustible material.

S26: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36: Wear suitable protective clothing.

**Hazard pictograms**



**Signal word :** Warning

**Hazard statements :** H272 - May intensify fire; oxidiser.

**Precautionary statements :** P220 - Keep/Store away from clothing and other combustible materials.

### 3.3. Other hazards

No additional information available

## 4. First Aid Measures

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

### 4.1. Description of first aid measures

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

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

First-aid measures after eye contact : Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Get medical

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advice/attention.

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

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

No additional information available

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

Treat symptomatically.

## **5. Fire-fighting Measures**

www.r

### **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

### **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 : Equip cleanup crew with proper protection.

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**

## 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 : 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 : [In case of inadequate ventilation] wear respiratory protection.

## 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

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**pH** : 5.5 - 7

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

**Melting point** : 44 °C

**Freezing point** : No data available

**Boiling point** : No data available

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

**Solubility** : Water: 121 g/100ml

**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

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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 : Not classified

Skin corrosion/irritation : Not classified

pH: 5.5 - 7

Serious eye damage/irritation : Not classified

pH: 5.5 - 7

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

## **12. Ecological information**

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

### **12.1. Toxicity**

No additional information available

### **12.2. Persistence and degradability**

No additional information available

### **12.3. Bioaccumulative potential**

No additional information available

### **12.4. Mobility in soil**

No additional information available

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## 12.5. Results of PBT and vPvB assessment

No additional information available

## 12.6. Other adverse effects

No additional information available

# 13. Disposal considerations

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

## 13.1. Waste treatment methods

No additional information available

# 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) : 1454

UN-No. (IMDG) : 1454

UN-No. (IATA) : 1454

UN-No. (ADN) : 1454

UN-No. (RID) : 1454

## 14.2. UN proper shipping name

Proper Shipping Name (ADR) : CALCIUM NITRATE

Proper Shipping Name (IMDG) : CALCIUM NITRATE

Proper Shipping Name (IATA) : Calcium nitrate

Proper Shipping Name (ADN) : CALCIUM NITRATE

Proper Shipping Name (RID) : CALCIUM NITRATE

Transport document description (ADR) : UN 1454 CALCIUM NITRATE, 5.1, III, (E)

Transport document description (IMDG) : UN 1454 CALCIUM NITRATE, 5.1, III

Transport document description (IATA) : UN 1454 Calcium nitrate, 5.1, III  
Transport document description (ADN) : UN 1454 CALCIUM NITRATE, 5.1, III  
Transport document description (RID) : UN 1454 CALCIUM NITRATE, 5.1, III

## 14.3. Transport hazard class(es)

**ADR-** Transport hazard class(es) (ADR) : 5.1

Danger labels (ADR) : 5.1

**IMDG-** Transport hazard class(es) (IMDG) : 5.1

Danger labels (IMDG) : 5.1

**IATA-** Transport hazard class(es) (IATA) : 5.1

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Hazard labels (IATA) : 5.1

**ADN-** Transport hazard class(es) (ADN) : 5.1

Danger labels (ADN) : 5.1

**RID-** Transport hazard class(es) (RID) : 5.1

Danger labels (RID) : 5.1

#### **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 : No

Marine pollutant : No

Other information : No

supplementary information available

#### **14.6. Special precautions for user**

**Overland transport-** Classification code (ADR) : O2

Special provisions (ADR) : 208

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, BK1, BK2, BK3

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

Tank code (ADR) : SGAV

Tank special provisions (ADR) : TU3

Vehicle for tank carriage : AT

Transport category (ADR) : 3

Special provisions for carriage ☑ Bulk (ADR) : VC1, VC2, AP6, AP7

Special provisions for carriage - Loading, unloading and handling (ADR) : CV24

Hazard identification number (Kemler No.) : 50

Orange plates : Tunnel restriction code (ADR) : E

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EAC code : 1Z

**Transport by sea-** Special provisions (IMDG) : 208, 967

Limited quantities (IMDG) : 5 kg

Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : P002, LP02

IBC packing instructions (IMDG) : IBC08

IBC special provisions (IMDG) : B3

Tank instructions (IMDG) : T1, BK2, BK3

Tank special provisions (IMDG) : TP33

EmS-No. (Fire) : F-A

EmS-No. (Spillage) : S-Q

Stowage category (IMDG) : A

Stowage and handling (IMDG) : SW23

Properties and observations (IMDG) : White deliquescent solid, soluble in water.

Mixtures with combustible material are readily ignited and may burn fiercely. Harmful if swallowed.

MFAG-No : 140

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

PCA Limited quantities (IATA) : Y546

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

PCA packing instructions (IATA) : 559

PCA max net quantity (IATA) : 25kg

CAO packing instructions (IATA) : 563

CAO max net quantity (IATA) : 100kg

Special provisions (IATA) : A83, A803

ERG code (IATA) : 5L

**Inland waterway transport-** Classification code (ADN) : O2

Special provisions (ADN) : 208

Limited quantities (ADN) : 5 kg

Excepted quantities (ADN) : E1

Carriage permitted (ADN) : B

Equipment required (ADN) : PP

Provisions prior to loading (ADN) : LO04

Provisions for carriage in bulk (ADN) : CO02

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Number of blue cones/lights (ADN) : 0

Additional requirements/Remarks (ADN) : CO02 and LO04 apply only when this substance is carried in bulk or without packaging

**Rail transport-** Classification code (RID) : O2

Special provisions (RID) : 208

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, BK1, BK2, BK3

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

Tank codes for RID tanks (RID) : SGAV

Special provisions for RID tanks (RID) : TU3

Transport category (RID) : 3

Special provisions for carriage ☐ Bulk (RID) : VC1, VC2, AP6, AP7

Special provisions for carriage - Loading, unloading and handling (RID) : CW24

Colis express (express parcels) (RID) : CE11

Hazard identification number (RID) : 50

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

Not applicable

## **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

CALCIUM NITRATE TETRAHYDRATE AR/ACS is not on the REACH Candidate

List

CALCIUM NITRATE TETRAHYDRATE AR/ACS is not on the REACH Annex XIV

List

#### **15.1.2. National regulations**

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## Germany

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

### 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

(CE) N° 1272/2008

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