#### 1. Product and Company Identifaction

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Product Name SODIUM SULPHATE ANHYDROUS AR

Part Number RXSOL-60-6605-573

Company Details:

RX MARINE INTERNATIONAL 105, A wing , BSEL , TECH PARK. VASHI ,NEW BOMBAY 400703 INDIA

Branch: Kandla, Mumbai, Chennai, Vizag, Kolkata, UAE, OMAN, CANADA and KENYA

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 Email
 mail@rxmarine.com

 Website
 www.rxmraine.com

## 2. Composition / Information on ingredients

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Chemical Name CAS EC number Weight Formula Sodium sulfate 7757-82-6 231-820-9 100% SO<sub>4</sub>.2Na

### 3. Hazards Identification

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Signal Word None
Hazard Statements None

P280 Wear protective gloves.P305 + P351 + P338 Wear eye protection/ face protection. IF IN EYES: Rinse cautiously with

water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

Precautionary statements response P210 Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P313 IF exposed or

concerned: Get medical advice/ attention.

Classification of the substance or mixture Not a hazardous substance or mixture according to Regulation (EC) No.

1272/2008.

Other hazards This substance/mixture contains no components considered to be either

persistent, bioaccumulative and toxic (PBT), or very persistent and very

bioaccumulative (vPvB) at levels of 0.1% or higher.

Label elements Not a hazardous substance or mixture according to Regulation (EC) No.

1272/2008.

### 4. First Aid Measures

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General advice NA

If inhaled After inhalation: fresh air.

Eye Contact After eye contact: rinse out with plenty of water. Remove contact lenses.

Swallowed After swallowing: make victim drink water (two glasses at most). Consult

doctor if feeling unwell.

Skin Contact In case of skin contact: Take off immediately all contaminated clothing.

Rinse skin with water/ shower.

Inhalation Remove patient to fresh air, keep warm and at rest and get medical

assistance in necessary.

Ingestion Rinse mouth with water. Do not induce vomiting. Never give anything by

mouth to an unconscious person. Call a doctor or Poison Control Center

immediately.

Most important symptoms and effects, both acute and delaye

The most important known symptoms and effects are described in the

labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment No data available

needed

### 5. Fire-fighting Measures

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Flammability May be combustible at high temperature.

Flash Point Higher than 93.3°C (200°F).

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances

and the surrounding environment.

Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are

given.

Special hazards arising from the substance or mixture Sulfur oxides Sodium oxides Not combustible. Ambient fire may liberate

hazardous vapours.

Further information Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent

fire extinguishing water from contaminating surface water or the ground

Fire may cause the evolution of Sulphur oxides, nitrogen oxides.

water system.

Hazardous combustion

products

Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

Protective Equipment Use personal protective equipment.

Specific Hazards Arising from the Chemical Has a fire-promoting effect due to the release of oxygen.

Ambient fire may liberate hazardous vapours.

#### 6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures Advi

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8

personal protection see section 8.

Spillage

Oxidizing material. Stop leak if without risk. Avoid contact with a combustible material (wood, paper, oil, clothing...). Keep substance damp using water spray. Do not touch spilled material. Prevent entry into sewers, basements or confined areas dike if needed. Eliminate all ignition

sources. Call for assistance on disposal.

Personal Protection

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. Advice for emergency responders: Protective equipment see section 8.

Do not let product enter drains

Environmental Precaution Methods and materials for

containment and cleaning

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of

properly. Clean up affected area. Avoid generation of dusts.

7. Handling and Storage

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Advice on safe handling

Advice on protection against fire and explosion

Incompatible materials

Work under hood. Do not inhale substance/mixture.

Provide appropriate exhaust ventilation at places where dust is formed.

Keep away from alkalis, strong oxidizing agents and metals. Provide

Hygiene measures

Precautions for safe handling

Conditions for safe storage, including any incompatibilities

Storage conditions

Storage class

Specific end use(s)

Handling

Advice on general occupational hygiene

Requirements for storage

containment walls of adequate capacity to hold any accidental spills.

General industrial hygiene practice. For precautions see section 2.2.

For precautions see section 2.2.

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

Tightly closed. Dry. hygroscopic

Storage class (TRGS 510): 13: Non Combustible Solids

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

Keep away from heat. Keep away from sources of ignition. Keep away from combustible material.. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as reducing agents, combustible materials, organic materials, metals

Advice on safe handling Observe label precautions. Change contaminated clothing. Wash hands after working with substance.

Keep in cool and store under shade.

### 8. Exposure controls and personal protection

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Occupational Exposure limit values

Biological limit values

Exposure controls

**Engineering Control** 

Eye/face protection

**Body Protection** 

Skin protection

Respiratory protection

No specific occupational exposure limit has been established.

No data available

No specific additional engineering controls are required. Provide good natural or artificial ventilation.

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril®

Required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P1 The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Other Protection Measure Handle in accordance with good industrial hygiene and safety practice.

Control of environmental exposure Do not let product enter drains.

Thermal hazards No data available

#### 9. Physical and chemical properties

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Physical state Crystalline
Colour White
Odour Odorless

Odor Threshold Not Applicable

pH 5,2 - 8,0 at 50 g/l at 20 °C

Melting Point 888 °C
Boiling Point 108,9 °C
Flash Point Not Applicable
Evaporation Rate Not Applicable
Flammability (solid, gas) No data available
Explosive limits No Data Available
Upper/lower flammability or explosive limits No data available

Autoignition temperature  $> 400 \, ^{\circ}\text{C}$  Decomposition temperature  $> 890 \, ^{\circ}\text{C}$ 

Vapour pressure No data available Density 2,70 g/cm3 at 20 °C No Data Available Vapour Density No data available Freezing point No data available Specific Gravity Partition coefficient No data available Explosive properties No data available 445,5 g/l at 20 °C Solubility

Ignition temperature No information available.

Particle characteristics No data available

#### 10. Stability and reactivity

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Reactivity No data available

Stability The product is chemically stable under standard ambient conditions (room

temperature) . The product is chemically stable under standard ambient

conditions (room temperature).

Possibility of hazardous reactions Risk of explosion with: smelt with Aluminum

Conditions to avoid No data available
Incompatible materials No data available.

Hazardous Polymerization In the event of fire: see section 5

#### 11. Toxicological information

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Acute toxicity LD50 Oral - Rat - female - > 2.000 mg/kg (OECD Test Guideline 423)

Symptoms: Possible damages:, Nausea, Vomiting LC50 Inhalation - Rat - male and female -  $4\ h$  -  $> 2,4\ mg/l$  - dust/mist (OECD Test Guideline 436) Remarks: (highest concentration to be prepared) Dermal: No data

available

Skin corrosion/irritation - 4 h (OECD Test Guideline 404)

Serious eye damage/eye irritation Eyes - Rabbit Result: slight irritation - 24 h (Regulation (EC) No.

440/2008, Annex, B.5)

Respiratory or skin sensitization

Serious eye damage/eye irritation

Toxic Effects on Human

Germ cell mutagenicity

Reproductive toxicity

Specific target organ toxicity - single exposure

Additional Information

Endocrine disrupting properties

Maximization Test - Guinea pig Result: negative (OECD Test Guideline 406)

No data available

May cause damage to the following organs: upper respiratory tract. Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant, sensitizer), of ingestion, of inhalation (lung irritant, lung sensitizer).

Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Result: negative Remarks: (ECHA) Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative Test Type: Chromosome aberration test in vitro Test system: Chinese hamster lung cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative

Presumed human reproductive toxicant

No data available

RTECS: AF3675000 Gastrointestinal disturbance To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. After uptake of large quantities: muscular symptoms agitation Convulsions Headache Tremors Nausea psychoses

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. RTECS: WE1650000 Nausea, Vomiting, cardiovascular disorders Systemic effects: After uptake of large quantities: cardiovascular disorders Symptoms in: Gastrointestinal tract However, when the product is handled appropriately, hazardous effects are unlikely to occur. Handle in accordance with good industrial hygiene and safety practice.

## 12. Ecological information

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Persistence and degradability

Bioaccumulative potential

Toxicity to fish

Toxicity to daphnia and other aquatic invertebrates

Toxicity to algae

Eco Toxicity
COD and BOD 5

Products Biodegradation

Mobility in soil

Results of PBT and vPvB assessment

Endocrine disrupting properties

Other adverse effects

The methods for determining biodegradability are not applicable to inorganic substances.

No data available

Static test LC50 - Pimephales promelas (fathead minnow) - 7.960 mg/l - 96 h (US-EPA)

Static test EC50 - Daphnia magna (Water flea) - 1.766 mg/l - 48 h (US-

Static test EC50 - Nitzschia sp. - 1.900 mg/l - 120 h Remarks: (ECHA)

Not Available

Not Available

The methods for determining the biological degradability are not

applicable to inorganic substances.

No Information available

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

Discharge into the environment must be avoided.

# 13. Disposal considerations

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Disposal methods

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do

not contaminate water, foodstuffs, feed or seed by storage or disposal. Do

not discharge to sewer systems.

Contaminated packaging Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for

combustible packaging materials.

Waste treatment Method See www.retrologistik.com for processes regarding the return of

chemicals and containers, or contact us there if you have further

questions.

### 14. Transport information

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UN number ADR/RID: IMDG: IATA:

ADR/RID: UN proper shipping name

IMDG:

IATA:

ADR/RID: IMDG: IATA: Transport hazard class(es) Packaging group ADR/RID: IMDG: IATA:

ADR/RID: No IMDG: No IATA: No Environmental hazards

Special precautions for user Tunnel restriction code: (C/E)

Further information Not classified as dangerous in the meaning of transport regulations.

Transport in bulk according to IMOinstruments No data available

### 15. Regulatory information

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Inventory status

Components are on the following inventories: Polymaleic acid: - US TSCA, Canadian DSL, EU EINECS, Australian AICS, Korean, Philippine PICCS and Chinese Xi irritant R 36/38 Irritant to eyes & skin R 41 Risk of serious damage to eyes \$24/25 Avoid contact with skin and eyes S26/28 In case of contact eyes & skin, rinse with plenty water and seek medical advice Section 312/313: Not listed. Not listed under California proposition 65.

substance or mixture

Safety, health and environmental regulations/legislation specific for the This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Safety, health and environmental regulations specific for the product in European Inventory of Existing Commercial Chemical Substances question

(EINECS) -Listed.EC Inventory Listed. United States Toxic Substances Control Act (TSCA) Inventory- Listed. China Catalog of Hazardous chemicals 2015 Not- Listed. New Zealand Inventory of Chemicals (NZIoC)Listed. PICCS -Listed. Vietnam National Chemical Inventory -Listed. IECSC Listed. Korea Existing Chemicals List (KECL) -Listed.

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous

substances. : OXIDISING LIQUIDS AND SOLIDS

Other regulations

National legislation

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work.

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

#### 16. Other information

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Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied,

with respect to such information, and weassume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages.

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No data available