Material Safety Data Sheet

VANADYL SULPHATE (RXSOL-60-6605-814)

1. Product and Company Identifaction

Product Name	RXSOL-60-6605-814
Product Type	VANADYL S ULPHATE
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 / informationon ingredients

Substance / Preparation: VANADYL SULFATE 96%
CAS No :27774-13-6
Substance.
Contains no other components or impurities which will influence the classification of theproduct.

3. Hazards Identification

3.1. Classification of the substance or mixture
Classification EC 67/548 or EC 1999/45
Classification : Xn; R22 Xi; R36/38
Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)
Health hazards : Acute toxicity, OralCategory 4A)
Tel: Warning (CLP : Acute Tox. 4) Eye irritationSkin irritation Category
2ACategory 2-- Warning (CLP : Eye Irrit. 2) H319
Warning (CLP : Skin Corr. 2) H315
3.2. Label elements
Labelling EC 67/548 or EC 1999/45
Symbol(s) : Xi : Irritant R Phrase(s)
R36 : R22 : Harmful if swallowed. /38 : Irritating to eyes and skin.
S Phrase(s) : S36 : Wear suitable protective clothing.
Labelling Regulation EC 1272/2008 (CLP)
Hazard pictograms

Signal words: Warning
Hazard statements: H302 : Harmful if swallowed.
H319 : Causes serious eye irritation.
H315 : Causes skin irritation.Precautionary statements
• Prevention: P280: Wear protective gloves, protective clothing, eye protection, faceprotection.
P264: Wash thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
• Response: P302+P352: IF ON SKIN : Wash with plenty of soap and water.
P301+P312: IF SWALLOWED : Call a POISON CENTER or doctor if you feelunwell.
P332+P313: If skin irritation occurs : Get medical advice.
P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P363: Wash contaminated clothing before reuse.
• Disposal considerations: P501: Dispose of this material and its container to hazardousor
special wastecollection point, in accordance with local, regional, national and/orinternationalregulation.
3.3. Other hazards
Other hazards: The substance does not fulfil the criteria to be identified as
PBTsubstance or vPvBsubstance according to Annex XIII of Regulation REACH.

4. First Aid Measures

4.1. Description of first aid measures
Inhalation: Assure fresh air breathing. Allow the victim to rest.
Skin contact: Wash contaminated clothing before reuse.
Wash with plenty of soap andwater.
Ifskin irritation occurs : Get medical advice. Specific treatment (see on this label).
Eye contact: Get medical advice.
If eye irritation persists : Remove contact lenses, ifpresent andeasy to do.
Continue rinsing. Rinse cautiously with water for several minutes.
Ingestion: Obtain emergency medical attention. Call a POISON CENTER or
doctor ifyou feelunwell. Do NOT induce vomiting. Rinse mouth.
4.2. Most important symptoms and effects, both acute and delayed
Symptoms relating to use: Swallowing a small quantity of this material will result inserious
health hazard.Causes serious eye irritation.Causes skin irritation.
4.3. Indication of any immediate medical attention and special treatment needed
General information: Never give anything by mouth to an unconscious person.
If youfeel unwell, seekmedical advice (show the label where possible).

5. Fire-fighting Measures

5.1. Extinguishing media
Suitable extinguishing media: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media: Do not use a heavy water stream.
Surrounding fires:Use water spray or fog for cooling exposed containers.
5.2. Special hazards arising from the substance or mixture
Hazardous combustion products: Under fire conditions, hazardous fumes will bepresent.
5.3. Advice for fire-fighters
Protection against fire: Do not enter fire area without proper protective equipment,
including respiratoryprotection.Special procedures: Exercise caution when fighting
any chemical fire. Avoid (reject)fire-fighting water toenter environment.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures
For emergency responders: Equip cleanup crew with proper protection.Ventilate area.
For non-emergency personnel: Evacuate unnecessary personnel.
6.2. Environmental precautions
Environmental precautions: Prevent entry to sewers and public waters.
Notifyauthorities if product enterssewers or public waters.
6.3. Methods and material for containment and cleaning up
Clean up methods: On land, sweep or shovel into suitable containers
. Minimizegeneration of dust.Store away from other materials.
6.4. Reference to other sections
See section 8. Exposure controls/personal protection

7. Handling and Storage

7.1. Precautions for safe handling
Handling: Wash thoroughly after handling.
Donot eat, drink or smoke when using thisproduct. Wash thoroughly after handling.
Technical protective measures: Provide good ventilation in process area to preventformation of vapour.
7.2. Conditions for safe storage, including any incompatibilities
Storage: Keep only in the original container in a cool, well ventilated place.
Keepcontainerclosed when not in use.Storage-away from: Strong bases.
Strong acids. Sources of ignition. Direct sunlight.
7.3. Specific end use(s)
Specific end use(s): None.

8. Exposure controls and personal protection

8.1. Exposure controls
Personal protection: Avoid all unnecessary exposure.
• Respiratory protection: Wear approved mask.
• Hand protection: Wear protective gloves.

• Skin protection: Wear suitable protective clothing.
• Eye protection: Chemical goggles or safety glasses.
• Others: When using, do not eat, drink or smoke.
8.2. Control parameters
Occupational Exposure Limits: No data available.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties
Physical state at 20 °C: Solid.
Odour threshold: No data available.
pH value: Not applicable.
Melting point [°C]: 105 °C
Decomposition point [°C]: N/A
Critical temperature [°C]: N/A
Auto-ignition temperature [°C]: N/A
Flammability (solid, gas): N/A
Flash point [°C]: N/A
Boiling point [°C]: N/A
Initial boiling point [°C]: N/A
Final boiling point [°C]: N/A
Evaporation rate: N/A
Vapour pressure [20°C]: N/A
Vapour pressure mm/Hg: N/A
Vapour density: N/A
Density [g/cm3]: 3
Relative density, gas (air=1): N/A
Relative density, liquid (water=1): N/A
Solubility in water [% weight]: Soluble in
waterSolubility in water: N/A
Log Pow octanol / water at 20°C: No data available.
Solubility: N/A
Viscosity at 40°C [mm2/s]: N/A
9.2. Other information
Explosive properties: N/A
Explosion limits-upper [%]: N/A
Explosion limits-lower [%]: N/A
Oxidising properties: No data available.

10. Stability and reactivity

10.1. Reactivity
Reactivity: Not established.
10.2. Chemical stability
Chemical stability: Stable under recommended storage conditions.
10.3. Possibility of hazardous
reactionsHazardous reactions: Not established.
10.4. Conditions to avoid
Conditions to avoid: Direct sunlight. Extremely high or low temperatures.
10.5. Incompatible materials
Materials to avoid: Strong acids. Strong bases.
10.6. Hazardous decomposition
productsHazardous decomposition products: Fumes. Carbon monoxide. Carbon dioxide.

11. Toxicological information

11.1. Information on toxicological effectsAcute toxicity
• Inhalation: Based on available data, the classification criteria are not met.
• Dermal: Based on available data, the classification criteria are not met.
• Ingestion: Harmful if swallowed.
Corrosion: Based on available data, the classification criteria are not met.
Irritation: Causes serious eye irritation.
Causes skin irritation.Sensitization: Based on available data, the classification criteria are not met.
Mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Toxic for reproduction: Based on available data, the classification criteria are not met.
STOT-single exposure: Based on available data, the classification criteria are not met.
STOT-repeated exposure: Based on available data, the classification criteria are not met
Aspiration hazard: Based on available data, the classification criteria are not met.

12. Ecological information

12.1. Toxicity
Toxicity information: Not established.
12.2. Persistence-degradability
Persistence-degradability: Biodegradable.
12.3. Bioaccumulative potential
Bioaccumulative potential: Not established.
12.4. Mobility in soil
Mobility in soil: Not established.
12.5. Results of PBT and vPvB assessment
Results of PBT and vPvB assessment: The substance does not fulfil the
criteria to beidentified as PBT substance or vPvBsubstance
according to Annex XIII of RegulationREACH.
12.6. Other adverse effects
Environmental precautions: Avoid release to the environment.

13. Disposal considerations

13.1. Waste treatment methods
General: Avoid release to the environment.
Dispose in a safe manner in accordance withlocal/national regulations.
Dispose of this material and its container to hazardous orspecial waste
collectionpoint, in accordance with local, regional, national and/orinternational regulation.

14. Transport information

14.1. Land transport (ADR-RID)
General information: Not regulated.
14.2. Sea transport (IMDG) [English only]
General information: Not regulated.
14.3. Air transport (ICAO-IATA) [English only]
General information: Not regulated.

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for thesubstance or mixture
Safety, health and environmental: Ensure all national/local regulations are observed.
regulations/legislation specific for thesubstance or mixture
REACH Restrictions-Annex XVII: The components of this product are not subject torestrictions.
REACH Authorisation-Annex XIV: The components of this product are not subjectto authorization.
15.2. Chemical Safety Assessment
Chemical Safety Assessment: It has not been carried out.

16. Other information

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) Nº 1907/2006 and with CLP Regulation (CE) Nº 1272/2008 DISCLAIMER OF LIABILITY The information in this SDS
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