Material Safety Data Sheet

PHENOLDISULPHONIC ACID SOLUTION 25% (RXSOL-60-6605-216)

1. Product and Company Identifaction

Product Name	PHENOLDISULPHONIC ACID SOLUTION 25%
Part Number	RXSOL-60-6605-216

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
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2. Composition / informationon ingredients

Chemical Name	CAS	EC number	Weight
PHENOLDISULPHONIC ACID SOLUTION 25%	7664-93-9	231-639-5	75

3. Hazards Identification

Physical hazards	Based on available data, the classification criteria are not met
Signal Word	Danger
Health hazards	Skin Corrosion/Irritation Category 1 A (H314) Serious Eye Damage/Eye Irritation Category 1 (H318)
Hazard Statements	H314 - Causes severe skin burns and eye damage.
P280 Wear protective gloves.P305 + P351 + P338	NA.
Precautionary statements - response	P280 - Wear protective gloves/protective clothing/eye protection/face protection P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Response	None
Disposal	NA
Prevention	NA
Supplemental Hazard Statements	None
Other hazards	Water reactive

4. First Aid Measures

General advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
If inhaled	NA

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required
swallowed	NA
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Call a physician immediately.
Inhalation:	If not breathing, give artificial respiration. Remove from exposure, lie down. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician immediately.
Ingestion:	Do NOT induce vomiting. Clean mouth with water. Never give anything by mouth to an unconscious person. Call a physician immediately.
Notes to Physician	Treat symptomatically.
If swallowed	NA
Self-Protection of the First Aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.
Most important symptoms and effects, both acute and delaye	Causes burns by all exposure routes. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated
Indication of any immediate medical attention and special treatment needed	Notes to Physician Treat symptomatically

5. Fire-fighting Measures

Flammability	NA
Flash Point	NA
Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water mist may be used to cool closed containers. CO 2, dry chemical, dry sand, alcohol-resistant foam.
Unsuitable extinguishing media	NA
Special hazards arising from the substance or mixture	Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes.
Further information	NA
Hazardous combustion products	Carbon monoxide (CO), Carbon dioxide (CO2), Sulfur oxides.
Advice for firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.
Protective Equipment	NA
Specific Hazards Arising from the Chemical	NA

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
Spillage	NA
Personal Protection	NA
Enviromental Precaution	Should not be released into the environment. See Section 12 for additional Ecological Information
Methods and materials for containment and cleaning	Soak up with inert absorbent material. Keep in suitable, closed containers for disposal
Reference to other sections	Refer to protective measures listed in Sections 8 and 13.

7. Handling and Storage

Advice on safe handling	NA

Advice on protection against fire and explosion	NA
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.
Precautions for safe handling	Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance. Handle under an inert atmosphere.
Conditions for safe storage, including any incompatibilities	Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Store under an inert atmosphere. Protect from moisture.
Storage conditions	Tightly closed. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorized persons. Light sensitive. Moisture sensitive.
Storage conditions	NA
Storage class	NA
Specific end use(s)	Use in laboratories
Handling	NA
Advice on general occupational hygiene	NA

8. Exposure controls and personal protection

Occupational Exposure limit values	No data available
Biological limit values	No data available
Exposure controls	Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the riskelimination area
Engineering Control	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.
Eye/face protection	Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US)
Body Protection	protective clothing
Skin protection	Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Respiratory protection	If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.
Other Protection Measure	Handle in accordance with good industrial hygiene and safety practice.
Control of environmental exposure	Do not let product enter drains. Risk of explosion.
Thermal hazards	No data available



Gloves



Suit

9. Physical and chemical properties

Physical state	Liquid
Colour	Off-white
Odour	Odorless
Odor Threshold	Not Applicable
pH	Not Applicable
Melting Point	No data available
Boiling Point	No data available
Flash Point	No data available

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	No data available
Decomposition temperature	No data available
Vapour pressure	No Data Available
Density	1.82
Vapour Density	No Data Available
Specific Gravity	No data available
Partition coefficient	No data available
Explosive properties	None
Solubility	Water reactive
Ignition temperature	No information available.
Particle characteristics	Not applicable (liquid)

10. Stability and reactivity

Reactivity	None known, based on information available
Stability	Stable under normal conditions
Possibility of hazardous reactions	Hazardous Polymerization Hazardous polymerization does not occur. Hazardous Reactions None under normal processing.
Conditions to avoid	Incompatible products. Combustible material. Exposure to moist air or water.
Incompatible materials	Bases. Water. Combustible material.
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous decomposition products	Carbon monoxide (CO). Carbon dioxide (CO2). Sulfur oxides.

11. Toxicological information

Acute toxicity	Oral Based on available data, the classification criteria are not met Dermal No data available Inhalation No data available
Component	Sulfuric acid
LD50 Oral	2140 mg/kg (Rat)
LD50 Dermal	NA
LC50 Inhalation	LC50 = 0.375 mg/L (Rat) 4 h
Skin corrosion/irritation	Category 1 A
Serious eye damage/eye irritation	Category 1
Respiratory or skin sensitization	No data available
Serious eye damage/eye irritation	No data available
Rout Of Entry	Inhalation. Ingestion.
Toxicity to Animal	NA
Toxic Effects on Human	NA
Germ cell mutagenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Special Remarks on other Toxi Effects on Humans:	NA
Additional Information	Endocrine disrupting properties
Assessment	NA
Endocrine disrupting properties	Assess endocrine disrupting properties for human health. This product does not contain any known or suspected endocrine disruptors.

12. Ecological information

Persistence and degradability	Persistence Persistence is unlikely, based on information available. Degradability Reacts with water.Degradation in sewage treatment plant Water reactive.
Toxicity	NA
Bioaccumulative potential	Product does not bioaccumulate due to reaction with water
Toxicity to fish	NA
Toxicity to daphnia and other aquatic invertebrates	NA
Toxicity to algae	NA
Eco Toxicity	Reacts with water so no ecotoxicity data for the substance is available.
COD and BOD 5	Not Available
Products Biodegradation:	NA
Mobility in soil	Reacts with water Is not likely mobile in the environment
Results of PBT and vPvB assessment	Water reactive
Endocrine disrupting properties	This product does not contain any known or suspected endocrine disruptors
Assessment	NA
Other adverse effects	Persistent Organic Pollutant This product does not contain any known or suspected substance Ozone Depletion Potential This product does not contain any known or suspected substance

13. Disposal considerations

Disposal methods	NA
Contaminated packaging	Dispose of this container to hazardous or special waste collection point
Waste treatment Method	NA
Waste from Residues/Unused Products	Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.
European Waste Catalogue (EWC)	According to the European Waste Catalog, Waste Codes are not product specific, but application specific.
Other Information	Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains. Do not flush to sewer. Large amounts will affect pH and harm aquatic organisms

14. Transport information

UN number	UN1803
UN proper shipping name	Phenolsulphonic acid, liquid (Mixture)
Transport hazard class(es)	8
Packaging group	II
Environmental hazards	No hazards identified
Special precautions for user	No special precautions required
Further information	NA
Transport in bulk according to IMOinstruments	Not applicable, packaged goods

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture	International Inventories X = listed, Europe (EINECS/ELINCS/NLP), U.S.A. (TSCA), Canada (DSL/NDSL), Philippines (PICCS), China (IECSC), Japan (ENCS), Australia
Safety, health and environmental regulations specific for the product in question	NA
National legislation	NA
WGK Classification	Water endangering class = 1 (self classification)
DSCL (EEC)	NA.
Other regulations	NA
Chemical Safety Assessment	A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	IECSC	AICS	KECL
Sulfuric acid	231-639-5	-		X	X	-	X	X	X	X	KE-32570
1,3-Benzenedisulfonic acid, 4-hydroxy-	202-533-6	-		X	-	X	-	-	X	X	-

Component	Germany - Water Classification (VwVwS)	Germany - TA-Luft Class
Sulfuric acid	WGK1	

16. Other information

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.