Material Safety Data Sheet

Wetting Agent (RXSOL-60-6193-500)

1. Product and Company Identifaction

Product Name	RXSOL-60-6193-500
Product Type	Wetting Agent

Company Details:

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

Phone	+91 22 65113333 / 5555 / 9999
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	mail@rxmarine.com

2. Composition / informationon ingredients

Mixture

Name	Product Identifier	% (w/w)	GHS-US classification
2-Propanol, 1-propoxy-	(CAS No.) 1569-01-3	9.5 - 12.6	Flam. Liq. 3, H226 Eye Irrit. 2A, H319 STOT SE 3, H336 STOT SE 3, H335
Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt	(CAS No.) 577-11-7	1.1 - 1.9	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 3, H402

3. Hazards Identification

Classification Of The Substance Or Mixture

GHS-US classification
Flam. Liq. 3 H226
Eye Irrit. 2A H319

Label Elements

GHS-US labeling
Hazard pictograms (GHS-US) : GHS02 GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) :

H226 - Flammable liquid and vapour

H319 - Causes serious eye irritation

Precautionary statements (GHS-US) :

P210 - Keep away from heat, sparks, open flames, hot surfaces. - No smoking

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical, lighting, ventilating equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge

P264 - Wash hand, forearms, and exposed areas thoroughly after handling

P273 - Avoid release to the environment

P280 - Wear face protection, eye protection, protective clothing, protective gloves, respiratory protection

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/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

P337+P313 - If eye irritation persists: Get medical advice/attention

P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide, or dry chemical for extinction

P403+P235 - Store in a well-ventilated place. Keep cool

P501 - Dispose of contents/container according to local, regional, national, territorial, provincial, and international regulations.

Other Hazards

Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3, H402 - Harmful to aquatic life

Unknown acute toxicity (GHS US) Not available

4. First Aid Measures

Description Of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

Skin Contact: Rinse with plenty of water. Obtain medical attention if irritation persists.

Eye Contact: Rinse cautiously with water for several minutes. Obtain medical attention if pain, blinking or redness persist. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

Most Important Symptoms And Effects Both Acute and Delayed

General: Eye irritation

Inhalation: Overexposure may be irritating to the respiratory system.

Skin Contact: May cause mild skin irritation.

Eye Contact: Causes serious eye irritation.

Ingestion: Abdominal pain. Diarrhea.

Chronic symptoms: May aggravate prexisting central nervous system disorders, asthma, and other respiratory conditions.

Indication Of Any Immediate Medical Attention And Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

5. Fire-fighting Measures

Extinguishing Media

Suitable extinguishing media: Dry powder. Carbon dioxide. Water spray. Sand. Alcohol-resistant foam.

Unsuitable extinguishing media: Do not use a heavy water stream.

Special Hazards Arising From The Substance Or Mixture

Fire hazard: Flammable liquid and vapour

Explosion hazard: May form flammable/explosive vapour-air mixture.

Reactivity: Not available

Advice For Firefighters

Precautionary measures fire: Not available

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Sulfur oxides

Reference To Other Sections

Refer to section 9 for flammability properties.

6. Accidental Release Measures

Personal Precautions, Protective Equipment And Emergency Procedures

General measures: Use special care to avoid static electric charges. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Do not allow product to spread into the environment. Handle in accordance with good industrial hygiene and safety practice.

For Non-Emergency Personnel

Protective equipment: Use appropriate personal protection equipment (PPE).

Emergency procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters.Avoid release to the environment

Methods And Material For Containment And Cleaning Up

For containment : Absorb and/or contain spill with inert material, then place in suitable container. Do not take up in combustible material such as: saw dust or cellulosic material.Use only non-sparking tools.

Methods for cleaning up: Clear up spills immediately and dispose of waste safely.

Reference To Other Sections

See Heading 8, exposure controls and personal protection

7. Handling and Storage

Precautions For Safe Handling

Additional hazards when processed: Handle empty containers with care because residual vapours are flammable.

Hygiene measures: Not available

Conditions For Safe Storage, Including Any Incompatibilities

Technical measures: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment.

Storage conditions: Keep only in the original container in a cool, well ventilated place away from: Heat sources, ignition sources, direct sunlight, incompatible materials. Keep container closed when not in use.

Storage area: Store in a well-ventilated place. Keep cool.

Specific End Use(s)

Laboratory Reagent

8. Exposure controls and personal protection

Control Parameters

No Occupational Exposure Limits (OELs) have been established for this product or its chemical components.

Exposure Controls

Appropriate engineering controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated below. All electrical equipment should comply with the National Electric Code. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Take precautionary measures against static discharges. Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases/vapours may be released.

Personal protective equipment: Avoid all unnecessary exposure. Fireproof clothing. Gloves. Protective goggles. Insufficient ventilation: wear respiratory protection.

Materials for protective clothing: Wear fire/flame resistant/retardant clothing. Chemically resistant materials and fabrics.

Hand protection: Wear chemically resistant protective gloves.

Eye protection: Chemical goggles or safety glasses.

Skin and body protection: Not available

Respiratory protection: Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of vapor or mist are expected to exceed exposure limits.

Thermal hazard protection: Wear suitable protective clothing.

Environmental exposure controls: Do not release to the environment.

Other information: When using, do not eat, drink or smoke.

9. Physical and chemical properties

Information On Basic Physical And Chemical Properties

Physical state	Liquid
Appearance	Clear
Odour	Solvent
Odour threshold	Not available
pH	Not available
Relative evaporation rate (butylacetate=1)	Not available
Melting point	Not available
Freezing point	Not available
Boiling point	~ 100 °C (212°F)
Flash point	Not available
Auto-ignition temperature	> 415 °C (780°F)
Decomposition Temperature	Not available
Flammability (solid, gas)	Not available
Lower flammable limit	Not available
Upper flammable limit	Not available
Vapour pressure	Not available
Relative vapor density at 20 °C	Not available
Relative density	Not available
Specific gravity density	Not available

Solubility	Water: insoluble
Log Pow	Not available
Log Kow	Not available
Viscosity, kinematic	Not available
Viscosity, dynamic	Not available
Explosion data - sensitivity to mechanical impact	Not available
Explosion data - sensitivity to static discharge	Not available

10. Stability and reactivity

Reactivity Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

Chemical Stability Hazardous reactions will not occur under normal conditions.

Possibility Of Hazardous Reactions Hazardous polymerization will not occur.

Conditions To Avoid Direct sunlight. Extremely high or low temperatures.Open flame. Heat. Sparks.

Incompatible Materials Strong bases. Strong acids. Strong oxidizers.

Hazardous Decomposition Products May release flammable gases. Sulfur oxides.

11. Toxicological information

Information On Toxicological Effects - Product

Acute toxicity : Not classified

LD50 and LC50 Data Not available

Skin corrosion/irritation: Not classified

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitisation: Not classified

Germ cell mutagenicity: Not classified

Teratogenicity: Not available

Carcinogenicity: Not classified

Specific target organ toxicity (repeated exposure): Not classified

Reproductive toxicity: Not classified

Specific target organ toxicity (single exposure): Not classified

Aspiration hazard: Not classified

Symptoms/injuries after inhalation: Overexposure may be irritating to the respiratory system.

Symptoms/injuries after skin contact: May cause skin irritation.

Symptoms/injuries after eye contact: Causes serious eye irritation.

Symptoms/injuries after ingestion: Abdominal pain. Diarrhea.

Chronic symptoms: May aggravate prexisting central nervous system disorders, asthma, and other respiratory conditions.

Information On Toxicological Effects - Ingredient(s)

LD50 and LC50 Data

Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (577-11 7)

LD50 oral rat	1900 mg/kg
LD50 dermal rabbit	10000 mg/kg

2-Propanol, 1-propoxy- (1569-01-3)

LD50 oral rat	2504 mg/kg
LD50 dermal rabbit	3550 mg/kg

12. Ecological information

Toxicity

Ecology - general: Toxic to aquatic life.

MethButanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (577-11-7)

LC50 fishes 1	20 - 40 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
EC50 Daphnia 1	36 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	24 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])

Persistence And Degradability

Wetting Agent

Persistence and degradability	Not established.

Bioaccumulative Potential

Wetting Agent

Bioaccumulative potential	Not established.

Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (577-11-7)

BCF fish 1	3.47 - 3.78

Mobility In Soil Not available

Other Adverse Effects Avoid release to the environment.

13. Disposal considerations

Waste disposal recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Additional information: Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

14. Transport information

In accordance with ICAO/IATA/DOT/TDG

UN Number Not regulated for transport

UN Proper Shipping Name Not regulated for transport

Additional information Not regulated for transport

Overland transport Not regulated for transport

Transport by sea Not regulated for transport

Air transport Not regulated for transport

15. Regulatory information

US Federal regulations

Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (577-11-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

2-Propanol, 1-propoxy- (1569-01-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

US State regulations -

Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (577-11-7)

U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term

2-Propanol, 1-propoxy- (1569-01-3)

U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term

Canadian regulations

Wetting Agent

WHMIS Classification	Class B Division 2 - Flammable Liquid
	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (577-11-7)

Listed on the Canadian DSL (Domestic Sustances List) inventory.

Listed on the Canadian Ingredient Disclosure List

2-Propanol, 1-propoxy- (1569-01-3)

Listed on the Canadian DSL (Domestic Sustances List) inventory.

Water (7732-18-5)

Listed on the Canadian DSL (Domestic Sustances List) inventory.

WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR. '

16. Other information

Indication of changes : Revision date: 05/14/2013

Other information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 3	Flammable liquids Category 3
Skin Irrit. 2	skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness

NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard : 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

HMIS III Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability: 2 Moderate Hazard

Physical : 0 Minimal Hazard

Party Responsible For The Preparation Of This Document:
OFI Testing Equipment

Phone Number: 832-320-7300

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.