Material Safety Data Sheet

Isopropyl Alcohol (2-propanol) L.R.Grade (RXSOL-60-6230-500)

1. Product and Company Identifaction

Product Name	RXSOL-60-6230-500
Product Type	Isopropyl Alcohol (2-propanol) L.R.Grade

Company Details:

RX MARINE INTERNATIONAL
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Phone	+91 22 65113333 / 5555 / 9999
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2. Composition / informationon ingredients

SARA 313 Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
Isopropyl Alcohol (2-propanol)	CAS# 67-63-0	100%	V/V	OSHA TWA 400 ppm, STEL 500

3. Hazards Identification

Keep away from heat and ignition sources. May be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

Emergency Overview: Warning! Flammable liquid and vapor. Harmful if swallowed or inhaled.Causes irritation to eyes and respiratory tract. Affects central nervous system. May be harmful if absorbed through skin. May cause irritation to skin.

Inhalation: Inhalation of Vapors Irritates the Respiratory Tract. Exposure to High Concentrations has a Narcotic Effect, Producing Symptoms of Dizziness, Drowsiness, Headache, Staggering, Unconsciousness and Possibly Death.

Ingestion: Can Cause Drowsiness, Unconsciousness, and Death. Gastrointestinal Pain,
Cramps, Nausea, Vomiting, and Diarrhea may also Result. The Single Lethal Dose for a Human Adult = About 250 mL (8 ounces).

Skin: May Cause Irritation with Redness and Pain. May be Absorbed Through the Skin with
Possible Systemic Effects.

Eye Contact Vapors Cause Eye Irritation. Splashes Cause Severe Irritation, Possible Corneal Burns and Eye Damage.

Chronic Exposure: Chronic Exposures may Cause Skin Effects.

Aggravated by Exposure: Chronic Exposures may Cause Skin Effects. Persons with Pre-Existing Skin Disorders or Impaired Liver, Kidney, or Pulmonary Function may
be More Susceptible to the Effects of this Agent

4. First Aid Measures

Keep away from heat and ignition sources. May be harmful if swallowed. Avoid.

SKIN:	Remove contaminated clothing. Wash exposed area with soap and water. if irritation persists, seek medical attention.
EYES:	Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid.
INHALATION:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen
INGESTION:	Give several glasses of milk or water. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person.

5. Fire-fighting Measures

Fire Extinguisher Type:	Water spray, dry chemical, carbon dioxide, alcohol foam
Fire / Explosion Hazards:	FLAMMABLE! Vapor air mixtures are explosive within flammable limits noted. Vapors may travel to distant ignition source
Fire Fighting Procedure:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

6. Accidental Release Measures

Eliminate Ignition Sources. Neutralize with: Soda lime, soda ash. Absorb with vermiculite or other inert material. Place in container.

Ventilate area or Leak or Spill. Remove all Sources of Ignition. Wear Appropriate Personal Protective Equipment as Specified in Section 8. Isolate Hazard Area. Keep Unnecessary and Unprotected Personnel from Entering. Contain and Recover Liquid when Possible. Use Non-Sparking Tools and Equipment. Collect Liquid in an Appropriate Container or Absorb with an Inert Material (e.g., Vermiculite, Dry Sand, Earth), and Place in a Chemical Waste Container. Do Not Use Combustible Materials, such as Saw Dust. Do Not Flush to Sewer! US Regulations (CERCLA) Require Reporting Spills and Releases to Soil, Water and Air in Excess of Reportable Quantities.

7. Handling and Storage

Keep away from heat and flame. Do not get in eyes, on skin, on clothing. Use with adequate ventilation.

8. Exposure controls and personal protection

Respiratory Protection	Organic Vapor Cartridge and flash back.
Ventilation	Local
OTHER	Mechanical
Protective Gloves	NIOSH Approved Gloves
EYE PROTECTION	Splash Goggles
Other Protective Equipment	Wear appropriate clothing to prevent skin exposure

9. Physical and chemical properties

BOILING POINT	82°C
VAPOR PRESSURE	33 mm Hg @ 25° C
MELTING POINT	-89°C
VAPOR DENSITY	2.1 (air=1)
EVAPORATION RATE	Information not available
Appearance /Odors	Clear,colorless liquid with
Flash Point	12°C (closed cup)
Specific Gravity	.79
Percent Volatile by Evaporation Standard	>99
Auto Ignition Temp	399° C
Lower Flamm. Limit in Air	2.0%
Upper Flamm. Limit in Air	12.0%
Solubility in Water	Soluble

10. Stability and reactivity

STABILITY	Stable
CONDITIONS TO AVOID	Avoid heat and ignition sources
MATERIALS TO AVOID	Strong oxidizers, metals, strong bases, amines
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon Oxides
HAZARDOUS POLYMERIZATION	Will Not Occur
Conditions to Avoid	None known

11. Toxicological information

Carcinogenic References: NTP Carcinogen - Known: No, IARC Category- 3

12. Ecological information

Environmental Fate: When Released to the Soil and Water, this Material may Evaporate to Moderate Extent. When Released into the Soil, This Material may Leach into Groundwater. When Released into the Water, This Material is Expected to have a Half Life Between 1 and 10 Days.

Environmental Toxicity: The LC50/96-hour values for fish are over 100 mg/l. This material is not expected to be toxic to aquatic life.

13. Disposal considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport information

DOT Classification: UN1219, Isopropanol, 3, PG II

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

15. Regulatory information

Chemical Inventory Status –
Part 1:Ingrdient
Isopropyl Alcohol (67-63-0)
TSCA Yes
EC Yes
Japan YES
Australia Yes

Chemical Inventory Status –
Part 2:Ingredient
Isopropyl Alcohol (67-63-0)
Korea Yes
DSL Yes
NDSL No
Phil. Yes

Federal, State & International Regulations –
Part 1: Ingredient.
Isopropyl Alcohol (67-63-0)
RQ No
TPQ No
List NO
Chemical Catg No

Federal, State &
International Regulations –
Part 2:Ingredient
Isopropyl Alcohol (67-63-0)
CERCLA NO
261.33 No
8(d) No

Chemical Weapons Convention: No
TSCA 12 (b):No
CDTA:YES MIXTURE/LIQUID
SARA 311/312: Acute:YES
Chronic: YES
Fire: YES
Pressure: No
Reactivity: No
Australian Hazchem Code: 2S 2
Poison Schedule:NONE ALLOCATED

16. Other information

Conditions aggravated/Target organs: Persons with preexisting skin, eye, respiratory disorders may be more susceptible. Acute: Irritation to skin, eyes, lungs, mucous membranes and GI tract,
nausea, narcosis, drowsiness, dizziness. Chronic: Dermatitis, eye

Flammability

Health Reactivity

Revisions	NFPA
7/29/2010	0.1 updated msds to 16 section from 10 section msds. STN
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