Material Safety Data Sheet

Isopropanol (Isopropyl Alcohol ,2-propanol) (RXSOL-60-6230-005)

1. Product and Company Identifaction

Product Name	**Isopropanol (Isopropyl Alcohol ,2-propanol)**
Part Number	**RXSOL-60-6230-005**

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

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2. Composition / informationon ingredients

SARA 313	Component	CAS Number	Percent	Dimension	Exposure Limits
	Isopropyl Alcohol	67-63 0	100%	V/V	OSHA TWA 400 ppm, STEL 500 ppm

3. Hazards Identification

Keep away from heat ignition sources. Harmful if swallowed. Avoid breathing vapors. 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 is approximately 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:	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

May be harmful if swallowed. May cause irritation. Avoid breathing vapors, or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling.

FIRST AID:

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:	If swallowed, induce vomiting immediately after giving two glasses of water. 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 and flash back.
Firefighting Procedure:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing

6. Accidental Release Measures

Eliminate ignition sources. 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
Ventilation	Local Exhaust 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

Melting Point	128°F (-89°C)
Boiling Point	180°F (82°C)
Vapor Pressure	33 mm Hg @ 77°F (25°C)
Vapor Density	2.1 (air=1)
Solubility In Water	Soluble
Appearance/Odors	Clear liquid, mild alcohol odor
Flash Point	54°F (12°C)
Percent Volatile By Volume	> 99
Evaporation Rate	Information not available
Evaporation Standard	
Auto Ignition Temp	399°C
Lower Flamm. Limit In Air	2.0%
Upper Flamm. Limit In Air	12.0%
Specific Gravity	0.79 @ 20°C

10. Stability and reactivity

Stability	Stable
Conditions to Avoid	Avoid contact with heat, sparks, flames, or other sources of ignition.
Materials to Avoid	Strong oxidizing agents, metals, bases, amines
Hazardous Decomposition Products	Oxides of carbon
Hazardous Polymerization	Will not occur
Conditions to Avoid	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 a moderate extent. When released into the soil, this material may leach into groundwater. When released into 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: Isopropanol Solution, 3, UN1219, PG II
DOT regulations may change from time to time. Please consult the most recent DOT 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

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 we assume 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 Rx Marine International 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.