Material Safety Data Sheet

ISO PROPYL ALCOHOL N (RXSOL-19-1433-210)

1. Product and Company Identifaction

Product Name	RXSOL-19-1433-210
Product Type	ISO PROPYL ALCOHOL

Synonyms ::: 2-Propanol; sec-propyl alcohol; isopropanol; sec-propanol; dimethylcarbinol CAS No 67-63-0 Molecular Weight 60.10 Chemical Formula (CH3)2 CHOH

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / informationon ingredients

Chemical Name	CAS Number	EC Number	Index number
Propan-2-ol (Iso Propyl Alcohol)	67-63-0	200-661-7	603-117-00-0

3. Hazards Identification

Hazard description:
Information concerning particular hazards for human and environment:

R 36 Irritating to eyes.
R 67 Vapours may cause drowsiness and dizziness.

4. First Aid Measures

General information	Symptoms of poisoning may even occur after several hours, therefore medical observation for at least 48 hours after the accident.
After inhalation	Supply fresh air, consult doctor in case of complaints.
After skin contact	Generally the product does not irritate the skin.
After eye contact	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing	If symptoms persist consult doctor.

5. Fire-fighting Measures

Suitable extinguishing agents:
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Protective equipment: No special measures required.

6. Accidental Release Measures

Person-related safety precautions:Wear protective equipment. Keep unprotected persons away.
Measures for environmental protection: Do not allow to enter sewers/ surface or ground water.
Measures for cleaning/collecting: Dilute with plenty of water. Ensure adequate ventilation.

7. Handling and Storage

Handling:
Information for safe handling: No special requirement
Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Storage:
Requirements to be met by storerooms and receptacles: Store in a cool location.
Information about storage in one common storage facility: Not required.
Further information about storage conditions:
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

8. Exposure controls and personal protection

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

67-63-0 propan-2-ol

PEL (USA)	980 mg/m³, 400 ppm Short-term value: 1225 mg/m³, 500 ppm
REL (USA)	Long-term value: 980 mg/m³, 400 ppm Short-term value: 984 mg/m³, 400 ppm Long-term value: 492 mg/m³, 200 ppm BEI
TLV (USA)	Short-term value: 1250 mg/m³, 500 ppm
WEL (Great Britain)	Long-term value: 999 mg/m³, 400 ppm

Additional information: The lists valid during the making were used as basis.
Personal protective equipment:
General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the skin. Avoid contact with the eyes and skin.
Respiratory protection: Not required.
Protection of hands: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material:
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection: Tightly sealed goggles

9. Physical and chemical properties

General Information

Form	Fluid

Colour	Clear
Odour	Characterisitic
Change in condition	
Melting point/Melting range	-89.5°C
Boiling point/Boiling range	82°C
Ignition temperature	425°C
Danger of explosion	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Explosion limits:	
Lower	2 Vol %
Upper	12 Vol %
Vapour pressure at 20°C	43 hPa
Density at 20°C	0.785 g/cm³
Solubility in / Miscibility with water at 20°C	1 g/l
pH-value (- g/l)	neutral
Viscosity:	
Dynamic at 22°C	2.43 mPas

10. Stability and reactivity

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
Dangerous reactions No dangerous reactions known.
Dangerous decomposition products: No dangerous decomposition products known.

11. Toxicological information

Acute toxicity:

LD/LC50 values relevant for classification:

Oral	LD50	5045 mg/kg (rat)
Dermal	LC50	12800 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/l (rat)

Primary irritant effect:	
on the skin	No irritant effect.
on the eye	Irritating effect.
Sensitization	No sensitizing effects known.

12. Ecological information

General notes: Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13. Disposal considerations

Product: Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Uncleaned packaging: Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

14. Transport information

Land transport ADR/RID (cross-border)

ADR/RID class	3 Flammable liquids.
Danger code (Kemler)	33
UN-Number	1219
Packaging group	II
Hazard label	3
Description of goods	1219 ISOPROPANOL (ISOPROPYL ALCOHOL)

Maritime transport IMDG

IMDG Class	3
UN Number	1219
Label	3
Packaging group	II
EMS Number	F-E,S-D
Marine pollutant	No
Proper shipping name	ISOPROPANOL (ISOPROPYL ALCOHOL)

Air transport ICAO-TI and IATA-DGR

ICAO/IATA Class	3
UN/ID Number	1219
Label	3
Packaging group	II
Proper shipping name	ISOPROPANOL (ISOPROPYL ALCOHOL)

15. Regulatory information

Labelling according to EU guidelines:
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
Risk phrases:
11 Highly flammable.
36 Irritating to eyes.
67 Vapours may cause drowsiness and dizziness.
Safety phrases:
2 Keep out of the reach of children.
7 Keep container tightly closed.
16 Keep away from sources of ignition - No smoking.
24/25 Avoid contact with skin and eyes.

16. Other information

This information is based on our present knowledge.However, this shall not constitute a guarantee for anys pecific product features and shall not establish a legally valid contractual relationship.

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