Material Safety Data Sheet

Methanol Water Mix (RXSOL-20-2162-210)

1. Product and Company Identifaction

Product Name **Methanol Water Mix**

Product Type **RXSOL-20-2162-210**

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

Phone	+91 22 27815540 / 41 / 42
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2. Composition / informationon ingredients

Component	CAS-No	Weight %
Water	7732-18-5	20 - 50
Methyl alcohol	67-56-1	50 - 80

3. Hazards Identification

Target Organs	Gastrointestinal tract (GI), Central nervous system (CNS), Eyes, Respira system, Skin, Optic nerve, Liver, Kidney, spleen, Blood
Potential Health Effects	
Acute Effects	
Principle Routes of Exposure	
Eyes	Irritating to eyes.
Skin	Toxic in contact with skin. Irritating to skin.

Inhalation	Toxic by inhalation. Vapor harmful. May cause irritation of respiratory tract.
Ingestion	Poison, may be fatal or cause blindness if swallowed. Cannot be made n poisonous. Ingestion may cause gastrointestinal irritation, nausea, vomiting diarrhea.
Chronic Effects Toxic	Dnger of very serious irreversible effects through inhalation, in contact with s and if swallowed. Experiments have shown reproductive toxicity effects laboratory animals. May cause adverse liver effects. May cause adverse kid effects. Component substance is listed on California Proposition 65 as developmental hazard.
Aggravated Medical Conditions	Central nervous system disorders. Gastrointestinal tract. Preexisting eye disord Skin disorders. Kidney disorders. Liver disorders.

4. First Aid Measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 1 minutes. Obtain medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediat medical attention is required.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to- mouth resuscitation if victim ingested or inhaled the substance; induce artifi respiration with a respiratory medical device. Immediate medical attention i required.
Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immedia
Notes to Physician	Treat symptomatically.

5. Fire-fighting Measures

Flash Point	> 11°C
Method	No information available.

Autoignition Temperature	464°C
Explosion Limits	
Upper	~ 36%
Lower	~ 6%
Suitable Extinguishing Media	CO2, dry chemical, dry sand, alcohol-resistant foam. Use water spray to coo unopened containers.
Unsuitable Extinguishing Media	Water may be ineffective
Hazardous Combustion Products	No information available.
Sensitivity to mechanical impact	No information available.
Sensitivity to static discharge	No information available.
Specific Hazards Arising from the Chemical	Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated.
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear. Therma decomposition can lead to release of irritating gases and vapors.

NFPA	Health 1	Flammability 3	Instability 0	Physical hazards N/A

6. Accidental Release Measures

Personal Precautions	Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment. Ensure adequate ventilation.
Environmental recautions	Should not be released into the environment

Methods for Containment and Clean Up	Remove all sources of ignition. Soak up with inert absorbent material. Take precautionary measures against static discharges. Keep in suitable, closed containers for disposal..

7. Handling and Storage

Handling:
Use only under a chemical fume hood. Use explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing.

Storage:
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Flammables area.

8. Exposure controls and personal protection

Engineering Measures:
Ensure adequate ventilation, especially in confined areas.

Exposure Guidelines:
This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methyl alcohol	TWA: 200 ppm STEL: 250 ppm Skin.	(Vacated) TWA: 200 ppm (Vacated) TWA: 260 mg/m3 (Vacated) STEL: 250 ppm (Vacated) STEL: 325 mg/m3 Skin TWA: 200 ppm TWA: 260 mg/m3	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m3 STEL: 250 ppm STEL: 325 mg/m3

Component	Quebec Mexico	OEL (TWA)	Ontario TWAEV
Methyl alcohol	TWA: 200 ppm TWA: 262 mg/m3 STEL: 250 ppm STEL: 328 mg/m3 Skin	TWA: 200 ppm TWA: 260 mg/m3 STEL: 250 ppm STEL: 310 mg/m3	TWA: 200 ppm STEL: 250 ppm Skin

NIOSH IDLH:

Immediately Dangerous to Life or Health Personal Protective Equipment.

Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166
Skin and body protection	Antistatic boots. Wear fire/flame resistant/retardant clothing. Impervious gloves.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

9. Physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	Alcohol-like
Odor Threshold	No information available.
pH No	No information available.
Vapor Pressure	12.8 kPa @ 20°C
Vapor Density	1.105 @ °C (Air = 1.0)
Viscosity	No information available.
Boiling Point/Range	>64°C
Melting Point/Range	No data available
Decomposition temperature	No information available.
Flash Point	> 11°C
Evaporation Rate	No information available.
Specific Gravity	1.0
Solubility	Soluble in water
log Pow	No data available

10. Stability and reactivity

Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products. Heat, flames and sparks.

Incompatible Materials	Strong oxidizing agents, Strong acids, Acid anhydrides, Acid chlorides, Strong bases, Metals, Peroxides
Hazardous Decomposition Products	Carbon monoxide (CO), Formaldehyde
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methyl alcohol	5628 mg/kg (Rat)	15800 mg/kg (Rabbit)	64000 ppm (Rat) 4 h 83.2 mg/L (Rat) 4 h

Irritation	Irritating to eyes and skin
Toxicologically Synergistic Products	Carbon tetrachloride
Chronic Toxicity	
Carcinogenicity	There are no known carcinogenic chemicals in this product
Sensitization	No information available.
Mutagenic Effects	Mutagenic effects have occurred in experimental animals.
Reproductive Effects	Experiments have shown reproductive toxicity effects on laboratory animals.
Developmental Effects	Developmental effects have occurred in experimental animals. Component substance is listed on California Proposition 65 as a developmental hazard.
Teratogenicity	Teratogenic effects have occurred in experimental animals.

Other Adverse Effects	The toxicological properties have not been fully investigated.
Endocrine Disruptor Information	No information available

12. Ecological information

Ecotoxicity:

Do not empty into drains

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Methyl alcohol	Not listed	Pimephales promelas: LC50 > 10000 mg/L 96h	EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min	EC50 > 10000 mg/L 24h

Persistence and Degradability	: No information available
Bioaccumulation/ Accumulation	: No information available
Mobility	: No information available

Component	log Pow
Methyl alcohol	-0.74

13. Disposal considerations

Waste Disposal Methods:
Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Methyl alcohol - 67-56-1	U154	

14. Transport information

DOT

UN-No	: UN1230

Proper Shipping Name	: METHANOL SOLUTION
Hazard Class	: 3
Packing Group	: II

TDG

UN-No	: UN1230
Proper Shipping Name	: METHANOL SOLUTION
Hazard Class	: 3
Subsidiary Hazard Class	: 6.1
Packing Group	: II

IATA

UN-No	: UN1230
Proper Shipping Name	: METHANOL SOLUTION
Hazard Class	: 3
Subsidiary Hazard Class	: 6.1
Packing Group	: II

IMDG/IMO

UN-No	: UN1230
Proper Shipping Name	: METHANOL SOLUTION
Hazard Class	: 3
Subsidiary Hazard Class	: 6.1
Packing Group	: II

15. Regulatory information

International Inventories:

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	CHINA	KECL
Water	X	X		231-791-2			X		X	X	X
Methyl alcohol	X	X		200-659-6			X	X	X	X	X

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is

considered to cover the designated polyme made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations:
TSCA 12(b) Not applicable
SARA 313 Not applicable

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Methyl alcohol	67-56-1	50 - 80	1.0

SARA 311/312 Hazardous Categorization:

Acute Health Hazard	: Yes
Chronic Health Hazard	: Yes
Fire Hazard	: Yes
Sudden Release of Pressure Hazard	: No
Reactive Hazard	: No

Clean Water Act :
Not applicable

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Water		1 LB		

Clean Air Act:
Not applicable

Component	HAPS Data	Class 1 Ozone Depletors	Class 1 Ozone Depletors
Methyl alcohol	X		

OSHA :
Not applicable

CERCLA :
Not Applicable

Component	Hazardous Substances RQs	CERCLA EHS RQs
Methyl alcohol	5000 lb	

California Proposition 65:
This product does not contain any Proposition 65 chemicals.

Component	CAS-No	California Prop. 65	Prop 65 NSRL
Methyl alcohol	67-56-1	Methanol	

State Right-to-Know:
Not applicable

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Methyl alcohol	x	x	x	x	x

U.S. Department of Transportation:

Reportable Quantity (RQ)	: Y
DOT Marine Pollutant	: N
DOT Severe Marine Pollutant	: N

U.S. Department of Homeland Security:
This product does not contain any DHS chemicals.

Other International Regulations:
Mexico - Grade : Serious risk, Grade 3

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

WHMIS Hazard Class:
B2 Flammable liquid
D1B Toxic materials
D2B Toxic materials

16. Other information

The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer.

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