

## 1. Product and Company Identification

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Product Name **RXSOL-19-1364**  
Product Type **INDUSTRIAL Alcohol**

### Company Details:

RX MARINE INTERNATIONAL  
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## 2. Composition / Information on ingredients

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Chemical Name	CAS#	Percent	EINECS/ELINCS
Methyl alcohol	67-56-1	99+	200-659-6

## 3. Hazards Identification

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### EMERGENCY OVERVIEW

#### Appearance

clear, colorless. Flash Point: 11 deg C. Poison! Cannot be made non-irritating. Causes eye and skin irritation. May be absorbed through intact skin. This substance causes adverse reproductive and fetal effects in animals. Danger! Flammable liquid and vapor. Harmful if inhaled. May be fatal or cause blindness if swallowed. Causes central nervous system depression. May cause digestive tract irritation, vomiting, and diarrhea. Causes respiratory tract irritation. May cause heart damage. Target Organs: Kidneys, heart, central nervous system, eyes.

#### Potential Health Effects

##### Eye

Produces irritation, characterized by a burning sensation, redness, inflammation, and possible corneal injury. May cause painful sensitization.

##### Skin

Causes moderate skin irritation. May be absorbed through the skin in large quantities. Prolonged and/or repeated contact may cause defatting of the skin and dryness.

##### Ingestion

May be fatal or cause blindness if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause systemic toxicity with acidosis. May cause central nervous system depression characterized by excitement, followed by headache, dizziness, drowsiness, and loss of consciousness. Advanced stages may cause collapse, unconsciousness, coma and possible respiratory failure. May cause cardiopulmonary system effects.

##### Inhalation

Harmful if inhaled. May cause adverse central nervous system effects, including headache, convulsions, and possible death. May cause visual impairment and permanent blindness. Causes irritation of the mucous membrane.

##### Chronic

Prolonged or repeated skin contact may cause dermatitis. Chronic ingestion may cause effects similar to those of acute inhalation and ingestion. Long-term exposure may cause reproductive disorders and teratogenic effects. Experiments have resulted in mutagenic effects. Prolonged exposure may cause kidney, and heart damage.

## 4. First Aid Measures

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<b>Eyes</b>	Immediately flush eyes with plenty of water for at least 15 minutes, covering the upper and lower eyelids. Get medical aid immediately.
<b>Skin</b>	Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical aid if irritation persists. Wash clothing before reuse.
<b>Ingestion</b>	If victim is conscious and alert, give 2-4 cupfuls of milk or water. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical aid immediately. If vomiting occurs, give one teaspoon of Syrup of Ipecac.
<b>Inhalation</b>	Get medical aid immediately. Remove from exposure to fresh air. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth breathing. If breathing has ceased apply artificial respiration using oxygen and a self-inflating device such as a bag and a mask.
<b>Notes to Physician</b>	Effects may be delayed. Ethanol may inhibit methanol metabolism.

## 5. Fire-fighting Measures

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### General Information

Containers can build up pressure if exposed to heat and/or fire. As a result, use self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (or equivalent), and full protective gear. Water runoff can cause environmental pollution. Dike and collect water used to fight fire. Vapors can travel to a source of ignition and cause a flash back. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Flammable liquid vapors that form explosive mixtures at temperatures above the flashpoint. Use water spray to keep fire-exposed containers cool. Water is ineffective. Material is lighter than water and a fire may be spread by runoff. Vapors may be heavier than air. They can spread along the ground and collect in confined areas. May be ignited by heat, sparks, and flame.

### Extinguishing Media

For small fires, use dry chemical, carbon dioxide, water spray or foam. Use water spray to cool fire exposed containers. Water may be ineffective. For large fires, use water-soluble alcohol-resistant foam. Do NOT use straight streams of water.

## 6. Accidental Release Measures

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### General Information

#### Spills/Leaks

Use proper personal protective equipment as indicated in Section 8. Scoop up with a nonsparking tool, then place into a suitable container. Use water spray to disperse the gas/vapor. Remove all sources of ignition. Use an absorbent, non-combustible material such as earth, sand, or vermiculite. Do not use combustible materials such as saw dust. Provide ventilation. Suppressing foam may be used to reduce vapors. Water spray may not prevent ignition in closed spaces.

## 7. Handling and Storage

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### Handling

Wash thoroughly after handling. Remove contaminated clothing and shoes. Ground and bond containers when transferring material. Do not breathe dust, vapor, mist, or gas. Do not get on or on clothing. Empty containers retain product residue, (liquid and/or solid) and may be dangerous. Keep container tightly closed. Avoid contact with heat, flames, or open flame. Do not ingest or inhale. Use only in a chemical fume hood. Do not weld, braze, solder, drill, grind, or expose empty containers to heat or flames.

### Storage

Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep containers tightly closed. Do not store in aluminum or lead containers.

## 8. Exposure controls and personal protection

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### Engineering Controls:

Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use only under a chemical fume hood.

### Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Methyl alcohol	200 ppm TWA; 250 ppm STEL; skin - potential for cutaneous absorption	200 ppm TWA; 260 mg/m <sup>3</sup> TWA 6000 ppm IDLH	200 ppm TWA; 260 mg/m <sup>3</sup> TWA

OSHA Vacated PELs: Methyl alcohol: 200 ppm TWA; 260 mg/m<sup>3</sup> TWA; 250 ppm STEL; 325 mg/m<sup>3</sup> STEL Personal Protective Equipment

**Eyes:** Wear chemical goggles.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

## 9. Physical and chemical properties

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Physical State	Liquid
Appearance	clear, colorless
Odor	alcohol-like - weak odor
pH	Not available
Vapor Pressure	128 mm Hg @ 20 deg C
Vapor Density	1.11 (Air=1)
Evaporation Rate	5.2 (Ether=1)
Viscosity	0.55 cP 20 deg C
Boiling Point	64.7 deg C @ 760.00mm Hg
Freezing/Melting Point	98 deg C
Autoignition Temperature	464 deg C ( 867.20 deg F)
Flash Point	11 deg C ( 51.80 deg F)
Decomposition Temperature	Not available
NFPA Rating	(estimated) Health: 1; Flammability: 3; Reactivity: 0
Explosion Limits, Lower	6.0 vol %
Upper	36.00 vol %
Solubility	miscible
Specific Gravity/Density	7910g/cm <sup>3</sup>
Molecular Formula	CH <sub>4</sub> O
Molecular Weight	32.04

## 10. Stability and reactivity

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Chemical Stability

Stable under normal temperatures and pressures.

Conditions to Avoid

High temperatures, incompatible materials, ignition sources, oxidizers

Incompatibilities with Other Materials

Acids (mineral, non-oxidizing, e.g. hydrochloric acid, hydrofluoric acid, phosphoric acid), acids (mineral, oxidizing, e.g. chromic acid, hypochlorous acid, sulfuric acid), acids (organic, e.g. acetic acid, benzoic acid, methanoic acid, oxalic acid), azo, diazo, and hydrazines (e.g. dihydrazine)

#### Hazardous Decomposition Products

#### Hazardous Polymerization

hydrazine, methyl hydrazine), isocyanates (e.g. methyl isocyanate, potassium nitride, sodium nitride), peroxides and hydroperoxides (organic peroxide, benzoyl peroxide, butyl peroxide, methyl ethyl ketone peroxide, (e.g. butyl glycidyl ether), Oxidants (such as barium perchlorate, barium hydrogen peroxide, lead perchlorate, perchloric acid, sodium hypochlorite), metals (such as potassium and magnesium), acetyl bromide, alkyl beryllium dihydride, carbontetrachloride, carbon tetrachloride + metal, heat, chloroform + sodium hydroxide, cyanuric chloride, diethyl ether, potassium-tert-butoxide, chloroform + hydroxide, water reactive substances, anhydride, alkyl aluminum chloride, calcium carbide, ethyl dichlorosilane

Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide

Will not occur.

## 11. Toxicological information

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RTECS#:

CAS# 67-56-1: PC1400000

LD50/LC50:

CAS# 67-56-1:

Draize test, rabbit, eye

40 mg Moderate;

Draize test, rabbit, eye

100 mg/24H Moderate;

Draize test, rabbit, skin

20 mg/24H Moderate;

Inhalation, rat

LC50 = 64000 ppm/4H;

Oral, mouse

LD50 = 7300 mg/kg;

Oral, rabbit

LD50 = 14200 mg/kg;

Oral, rat

LD50 = 5628 mg/kg;

Skin, rabbit

LD50 = 15800 mg/kg;1000 ppm. May be dangerous if it enters water. Methanol in alcohol is expected to biodegrade in soil and water very rapidly. This is due to its high soil mobility and will be degraded from the ambient atmosphere with photochemically produced hydroxyl radicals with an estimated half-life of a few days. Bioconcentration factor for fish (golden ide) < 10. Based on a log K<sub>ow</sub> of 0.17 the BCF value for methanol can be estimated to be 0.2.

#### Physical

No information available.

#### Other

None.

## 13. Disposal considerations

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Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determine whether a chemical is a hazardous waste under 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: CAS# 67-56-1: waste number U154; (Ignitable waste).

## 14. Transport information

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	US DOT	IATA	RID/ADR	IMO	CanadaTDG	
Shipping Name:	METHANOL					METHANOL
Hazard Class:	3					3(6.1)
UN Number:	UN1230					UN1230
Packing Group:	II					II
Additional Info:						FLASHPOINT 11°C

## 15. Regulatory information

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SARA

CAS# 67-56-1: final RQ = 5000 pounds (2270 kg)

Section 302 (RQ)	
Section 302 (TPQ)	None of the chemicals in this product have a TPQ.
SARA Codes	CAS # 67-56-1: acute, flammable.
Section 313	This material contains Methyl alcohol (CAS# 67-56-1, 99%), which is reporting requirements of Section 313 of SARA Title III and 40 CFR
Clean Air Act	CAS# 67-56-1 is listed as a hazardous air pollutant (HAP). This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.
Clean Water Act	None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.
OSHA	None of the chemicals in this product are considered highly hazardous.
STATE	CAS# 67-56-1 can be found on the following state right to know lists: New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts, California. National Right to Know List Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

T F

Risk Phrases:

R 11 Highly flammable.

R 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R 39/23/24/25 Toxic : danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

Safety Phrases:

S 16 Keep away from sources of ignition - No smoking.

S 36/37 Wear suitable protective clothing and gloves.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 7 Keep container tightly closed.

## 16. Other information

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