

## SECTION 1 - Product Identification &amp; Use

<b>COMMON NAME:</b>	De-Icing Fluid	<b>MANUFACTURER:</b>	<b>DISTRIBUTOR:</b>
<b>MATERIAL IDENTIFIER:</b>	0919	Sci-Tech Inc.	
<b>APPLICATION:</b>	Gas Line De-icing	#340 53016 Hwy 60	
<b>WHMIS CLASSIFICATION:</b>	D.1A, B.2	Acheson, AB T7X 5A7	
<b>EMERGENCY CONTACT:</b>	CANUTEC	(780) 960-1200	
<b>EMERGENCY PHONE:</b>	(613) 996-6666		

## SECTION 2 - Hazardous Ingredients

HAZARDOUS INGREDIENTS	%	CAS/UN #	LD(50) OF INGREDIENT	LC(50) OF INGREDIENT
Methanol	40 - 70	67-56-1	n.av.	n.av.
Isopropanol	15 - 40	67-63-0	Rat (Oral) 5045 mg/kg	Rabbit 11130 mg/L/96h
Ethylene glycol	7 - 13	107-21-1	Rat (Oral) 1300 mg/kg	n.av.

## SECTION 3 - Physical Data

<b>PHYSICAL STATE:</b>	<b>ODOUR AND APPEARANCE:</b>	<b>SOLUBILITY IN WATER:</b>	<b>ODOUR THRESHOLD:</b>
Liquid	Alcohol; Colourless	n.av.	n.av.
<b>SPECIFIC GRAVITY:</b>	<b>VAPOUR DENSITY (air=1):</b>	<b>VAPOUR PRESSURE:</b>	<b>% VOLATILE BY VOLUME:</b>
0.88 ± 0.02	n.av.	n.av.	n.av.
<b>BOILING POINT:</b>	<b>MELTING POINT:</b>	<b>pH:</b>	<b>OCTANE-WATER COEFF:</b>
n.av.	n.av.	7.0 ± 0.5	n.av.

## OTHER PERTINENT INFORMATION:

n.av.

## SECTION 4 - Fire &amp; Explosion Data

<b>FLAMMABILITY:</b>	<b>FLASHPOINT (°C):</b>	n.av.
May ignite due to static spark, open flames, or other ignition sources.	<b>AUTOIGNITION TEMPERATURE (°C):</b>	n.av.
<b>MEANS OF EXTINCTION:</b>	<b>LOWER FLAMMABLE LIMIT (% BY VOLUME):</b>	n.av.
Use alcohol foam, dry chemical or carbon dioxide. Water may be ineffective.	<b>UPPER FLAMMABLE LIMIT (% BY VOLUME):</b>	n.av.
<b>SPECIAL PROCEDURES:</b>	<b>EXPLOSION SENSITIVITY TO IMPACT:</b>	n.av.
Use a positive pressure SCBA with a full face piece. Wear full protective clothing.	<b>SENSITIVITY TO STATIC DISCHARGE:</b>	n.av.
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>		
Toxic fumes.		

## SECTION 5 - Reactivity Data

<b>CHEMICAL STABILITY:</b>
Stable under normal conditions.
<b>INCOMPATIBLE MATERIALS:</b>
Incompatible with oxidizing agents such as nitrates, perchlorates, or sulfuric acid. Will attack some forms of plastics, rubber, and coatings. May react with aluminum and generate hydrogen gas.
<b>HAZARDOUS DECOMPOSITION:</b>
May thermally decompose to yield carbon dioxide, carbon monoxide and formaldehyde.

**SECTION 6 - Toxicological Properties****INHALATION:**

Inhalation may cause headache, drowsiness, nausea, vomiting, blurred vision, blindness, coma and death.

**EYE CONTACT:**

May cause persistent eye irritation and possible eye damage.

**SKIN CONTACT:**

Defatting of the skin and/or dermatitis occurs with prolonged contact. Skin absorption can occur; symptoms may parallel inhalation exposure.

**INGESTION:**

If ingested, may cause blindness or death.

**SECTION 7 - Preventative Measures**

**GLOVES:** Impermeable gloves required.

**FOOTWEAR:** Rubber boots required.

**RESPIRATOR:** NIOSH approved

**CLOTHING:** Impermeable coveralls required.

**EYEWEAR:** Chemical goggles or face shield required.

**OTHER:** Eye-wash station and shower required.

**ENGINEERING CONTROL:**

For use only with adequate ventilation. Maintain airborne concentrations below the exposure guidelines.

**LEAK AND SPILL PROCEDURE:**

Ventilate area of leak or spill. Remove all ignition sources. Absorb with an inert, non-combustible material and place in a suitable waste container. If leak or spill has not ignited, use water to disperse vapors.

**WASTE DISPOSAL:**

Waste should not be discharged into the sewer or water ways. Dispose of waste in accordance with local, provincial and federal regulations.

**HANDLING PROCEDURES AND EQUIPMENT:**

Do not ingest. Avoid skin and eye contact.

**STORAGE REQUIREMENTS:**

Store in a well ventilated area. Keep away from all sources of ignition. Keep container tightly closed when not in use. Protect from damage.

**TDG CLASSIFICATION:**

Flammable liquid, toxic n.o.s. (Methanol, isopropanol): Class 3 (6.1), UN1992, PG II

**SECTION 8 - First Aid Procedures****INHALATION:**

Remove victim to fresh air. If breathing is difficult, oxygen may be beneficial if administered by trained personnel. Immediately transport victim to an emergency care facility.

**EYE CONTACT:**

In case of contact with eyes, check for and remove contact lenses. Immediately flush with cold running water for at least 15 minutes. Seek medical attention immediately.

**SKIN CONTACT:**

In case of contact with skin, remove contaminated clothing and flush with plenty of running water. If irritation persists, seek medical attention.

**INGESTION:**

Induce vomiting immediately as directed by medical personnel. Get medical attention immediately.

**SECTION 9 - Preparation of MSDS****PREPARED BY:**

SCI-TECH Department of Research and Development

**PHONE NUMBER:**

(780) 960-1200

**CONSTRUCTED:**

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