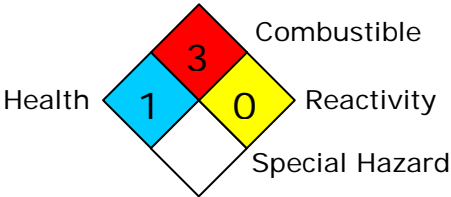


MATERIAL SAFETY DATA SHEET



MFA Oil Company One Ray Young Dr. Columbia Missouri 65201
573-442-0171 www.mfaoil.com

Section 1. Chemical Product and Company Identification

Product Name	MFA OIL ICE EATER	
Supplier	MidContinental Chemical Company, Inc. 1802 East 123rd Terrace Olathe, KS 66061 (913) 390-5556	
Material Uses	De-icing	
24 Hour Emergency Numbers:	ChemTrec (800) 424-9300 (U.S. 24 Hour)	
National Fire Protection Association (U.S.A.)	 <p>Health 1 3 Combustible Reactivity 0 Special Hazard</p>	

Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight
Isopropyl Alcohol	67-63-0	>99.7%

TRADE NAME: ISOPROPYL ALCOHOL 99%

SYNONYMS: IPA, Isopropanol, 2-Propanol

FAMILY/CLASSIFICATION: Alcohol

Section 3. First Aid Measures

EYE CONTACT FIRST AID: Moderately irritating to the eyes. Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention.

SKIN CONTACT FIRST AID: Moderately irritating to the skin. Flush skin with water. If irritation occurs, get medical attention.

INHALATION FIRST AID: May cause mild irritation to the nose, throat, and respiratory tract and may result in central nervous system (CNS) depression. Remove victim to fresh air and provide oxygen if breathing is difficult. Get medical attention.

INGESTION FIRST AID: Irritating to the gastrointestinal tract, causing abdominal pain and vomiting, sometimes bloody. Ingestion may cause CNS depression, low blood pressure, rapid heart beat, and liver damage. Do not give liquids if victim is unconscious or very drowsy. Otherwise, give no more than 2 glasses of water and induce vomiting by giving 30cc (2 tablespoons) syrup of ipecac. * If ipecac is not available, give 2 glasses of water and induce vomiting by touching finger to back of victim's throat. Keep victim's head below hips while vomiting. Get medical attention.

SIGNS AND SYMPTOMS: Irritation as noted above. Early to moderate CNS depression may be evidenced by giddiness, headaches, dizziness, and nausea; in extreme cases, unconsciousness, respiratory depression, and death may occur. Liver damage may be evidenced by loss of appetite, jaundice (yellowish skin color), and sometimes pain in the upper abdomen on the right side.

NOTES TO PHYSICIAN: If victim is a child, give no more than 1 glass of water and 15cc (1 tablespoon) syrup of ipecac. If symptoms such as a loss of gag reflex, convulsions, or unconsciousness occur before emesis, gastric lavage should be considered following intubation with a cuffed endotracheal tube.

Section 4. Fire and Explosion Hazard Data

Flash Point (ASTM D-92)	53°F
Flammable Limits /% Volume in Air	Lower: 2 Upper: 12
Extinguishing Medium	Use water fog, foam, dry chemical, or carbon dioxide extinguishing media.

SPECIAL FIREFIGHTING PROCEDURES AND PRECAUTIONS: Warning. Flammable. Clear fire area of unprotected personnel. Do not enter confined fire space without full bunker gear (helmet) with face shield, bunker coats, gloves, and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. Cool fire exposed containers with water.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture. Container already exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure.

Section 5. Handling and Storage

Store at 2°C to 30°C (36°F to 86°F).

Section 6. Personal Protection/Exposure Controls

VENTILATION TYPE: Local ventilation to control mist or vapors (if generated).

EYE / FACE PROTECTION REQUIREMENTS: Chemical safety glasses or goggles.

PROTECTIVE CLOTHING: None required for normal use. Cover any exposed skin. Chemical resistant gloves are recommended.

RESPIRATORY PROTECTION REQUIREMENTS: None required for normal use. Use adequate ventilation and vapor respirator when exposed to large volumes for a prolonged period of time.

EXPOSURE GUIDELINES

Isopropyl Alcohol

OSHA PEL: 400 ppm

ACGIH TWA: 400ppm

ACGIH TLV/TWA: 500ppm

Section 7. Physical and Chemical Properties

Form	Liquid
Color	Colorless
Odor	Mild Odor
Solubility In Water	Soluble in Water
Boiling Point	180°F
Vapor Pressure	32 @ 68°F (MM HG)
Vapor Density	2.1 (Air=1)
Evaporation Rate	1.4 (N-Butyl Acetate=1)
Specific Gravity	0.79 at 15°C

Section 8. Stability and Reactivity

STABILITY: Stable

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and unidentified organic compounds may be formed during combustion.

HAZARDOUS POLYMERIZATION: Does not occur.

CONDITIONS AND MATERIALS TO AVOID: Avoid heat, sparks, flame, and contact with strong oxidizing agents. Do not store or handle in aluminum equipment at temperatures above 120°F.

Section 9. Environmental and Disposal Information

SPILL AND LEAK PROCEDURE: Do not touch with bare hands. Shut off leak and dike up spills. Ventilate spill area. Absorb with an inert material such as earth, sand, or vermiculite. Sweep up and dispose of in accordance with Federal, State, and Local regulations.

WASTE DISPOSAL: Dispose of in accordance with Federal, State, and Local regulations.

CONTAINER DISPOSAL: Dispose of in licensed facility.

Section 10. Transport Information

DOT Classification: CLASS 3: Flammable liquid.

Identification: : Isopropyl Alcohol UNNA: 1219 PG: II

Special Provisions for Transport: Not available.

Section 11. Other Information

APPROVAL DATE 12-02-2009 New

MidContinental Chemical Disclaimer

NOTE: The information on this MSDS is based on data which is considered to be accurate. MidContinental Chemical Company, however, makes no guarantees or warranty, either expressed or implied of the accuracy or completeness of this information.

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