

## Liquid Fire Starting Fluid

### Section 1: MANUFACTURER/PREPARER INFORMATION & HAZARD WARNINGS

Radiator Specialty Co., of Canada  
1711 Aimco Blvd.  
Mississauga, Ontario  
L4W 1H7.

EMERGENCY PHONE  
(613) 996-6666 Canutec

INFORMATION PHONE  
(905) 625-9117

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### WHMIS HAZARD SYMBOLS & DEFINITIONS



Class A: Compressed gas

Class B5: Combustible & flammable material

Class D-2B: Poisonous & infectious material: other toxic effects

### Section 2: HEALTH HAZARD DATA

#### ROUTES OF ENTRY/SIGNS & SYMPTOMS OF ACUTE EXPOSURE:

**EYES:** Causes irritation. **SKIN:** Irritation upon prolonged contact, defatting of skin. **INHALATION:** Causes dizziness, strong anaesthesia, intoxication, unconsciousness. (LC50=73000/150M ppm Rat). **INGESTION:** N/A (LD50=1700 mg/kg Rat).

**Chronic Effects:** Not available. **Carcinogens:** None listed by IARC, NTP, or OSHA. **Medical Conditions Aggravated by Exposure:** N/R.

#### EMERGENCY & FIRST AID PROCEDURES:

**EYES:** Flush with water for at least 15 minutes. Call physician. **SKIN:** Wash well with water for at least 15 minutes while removing contaminated clothing. Call physician if irritation persists. **INHALATION:** Remove to fresh air. If breathing stopped, begin artificial respiration. Call physician. **INGESTION:** Call physician or poison control centre immediately. Proper treatment is dependant on condition of patient and amount ingested.

### Section 3: PREVENTATIVE MEASURES

**Respiratory Protection:** If TLV is exceeded, wear NIOSH approved self-contained breathing device or respirator.

**Ventilation:** Must be adequate to maintain vapours at less than 400 ppm, particularly at floor level as vapours are heavier than air.

**Gloves:** Nitrile or other impervious type may be used. **Eye Protection:** Safety glasses or goggles recommended. **Other Protective Measures:** N/E.

**Work/Hygienic Practices:** N/R

**Handling and Storing:** Keep away from heat, sparks and open flames. Avoid breathing vapour. Do not spray in direction of body. Use only in accordance with directions. Use with adequate ventilation. Do not puncture or incinerate aerosol containers. Do not store where temperature may exceed 120°F. Do not store near heat, fire, flame, or sparks.

KEEP OUT OF THE REACH OF CHILDREN AND ANIMALS.

N/A=Not Applicable. N/E=Not Evaluated/Established. N/R=Not Reported by Manufacturer.

Continued on Page 2

#### Section 4: HAZARDOUS COMPONENTS & EXPOSURE LIMITS

Hazardous Component Name	CAS #	OSHA PEL	ACGIH-TLV	Other Limit	% Wt
Carbon dioxide	124-38-9	N/E	N/E	N/E	3-7
Diethyl ether	60-29-7	N/R	400 ppm	N/R	65-71
Heptane related light hydrocarbons	142-82-5	N/E	N/E	N/E	30-60
Mineral oil, severely hydrotreated predominantly naphthenic	64742-65-0	N/E	N/E	N/E	0.5-1.5

§ indicates a toxic chemical subject to the reporting requirements of SARA Title III, Section 313.

† indicates a chemical known to the State of California to cause cancer, birth defects or other reproductive harm per Proposition 65.

#### Section 5: PHYSICAL/CHEMICAL CHARACTERISTICS

<b>Boiling Point:</b>	94°F (Diethyl ether)	<b>Specific Gravity:</b>	0.70
<b>Vapor Pressure:</b>	~ 80 psig @ 70°F	<b>Percent Volatile:</b>	99 by wt.
<b>Vapor Density (Air=1):</b>	~ 2.5 (air=1)	<b>Evaporation Rate:</b>	N/E
<b>Solubility in Water:</b>	> 2%	<b>pH:</b>	6-8
<b>Appearance/Odor:</b>	Pale yellow to clear liquid (aerosol)/Strong ethereal odour.		

#### Section 6: FIRE & EXPLOSION HAZARD DATA

**Flash Point (Method):** < 0°F (TCC) EXTREMELY FLAMMABLE      **Flammable Limits. LEL:** 1.8%      **UEL:** 48.0%

**Extinguishing Media:** Dry chemical, alcohol foam, carbon dioxide or water fog or mist only.

**Special Firefighting Procedures:** Avoid possible accumulations of flammable vapours at low levels, as vapour is heavier than air. Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.

**Unusual Fire and Explosion Hazards:** Avoid possible bursting of aerosol can. Do not store where temperature may exceed 120°F. Do not puncture or incinerate. Carbon monoxide may form on combustion.

#### Section 7: REACTIVITY DATA

**Stability:** Unstable explosive peroxides may be formed and concentrate by evaporation to hazardous levels. This process is favoured by prolonged storage with exposure to air and light. Generally stable in sealed metal container.

**Hazardous Polymerisation:** Will not occur. **Conditions to Avoid:** Avoid heat, sparks, flames. **Incompatibility:** Strong oxidisers. **Hazardous Decomposition Products:** Carbon monoxide may form on combustion.

#### Section 8: SPILLS, DISPOSAL & ADDITIONAL INFORMATION

**Spill/Leak Procedures:** Keep away from fire, sparks or flame. Ventilate area well. Carbon dioxide may be used as a precautionary vapour blanket. Small amounts may be flushed away with water.

**Waste Disposal:** Dispose of promptly in sealed metal containers, in accordance with all local, provincial, and federal Regulations. Avoid contamination of groundwater.

**Additional Information:** N/R

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