

# MATERIAL SAFETY DATA SHEET

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REVISION DATE: April 9, 2002  
DATE OF ISSUE: May 2, 2002

## I - Product Identification

### Starting Fluid

PRODUCT CODE: 8550

CHEMICAL FORMULATION: Pressurized diethyl ether based engine starter.

NFPA HAZARD IDENTIFICATION SYSTEM: **HEALTH: 2**      **FLAMMABILITY: 4**      **REACTIVITY: 1**  
HAZARD RATING:      4 - Extreme;      3 - High;      2 - Moderate;      1 - Slight;      0 - Insignificant

## II - Hazardous Ingredients

Values reported as TWA unless noted.

<u>SUBSTANCE</u>	<u>APPROX</u> <u>%</u>	<u>OSHA</u> <u>PEL</u>	<u>ACGIH</u> <u>TLV</u>	<u>EPA 40 CFR:</u>			<u>CAS #</u>
				<u>302</u>	<u>355</u>	<u>372</u>	
Diethyl Ether	40.0-50.0	400 ppm	400 ppm	Y	N	N	60-29-7
Heptane, related light hydrocarbons	40.0-50.0	400 ppm	400 ppm	N	N	N	142-82-5
Mineral Oil, severely hydrotreated	< 1.0	500 ppm	N/E	N	N	N	64742-53-6
Carbon Dioxide	4.00-7.00	10,000 ppm	5000 ppm	N	N	N	124-38-9

Key: **PEL:** Permissible Exposure Limit    **TLV:** Threshold Limit Value    **C:** Ceiling level    **STEL:** Short Term Exposure Limit  
**N/A:** Not Applicable    **N/D:** Not Determined    **N/E:** Not Established    **Y:** Yes    **N:** No  
**302:** CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).  
**355:** SARA TITLE III / List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).  
**372:** SARA TITLE III / List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

## III - Physical Data

**BOILING POINT (°F):** 94, for Diethyl ether      **SPECIFIC GRAVITY (WATER = 1):** 0.70  
**VAPOR PRESSURE (mm Hg):** N/D      **VOC CONTENT (% by weight):** 85.0 – 95.0  
**VAPOR DENSITY (AIR = 1):** 2.5      **EVAPORATION RATE (WATER = 1):** > 1.0  
**SOLUBILITY IN WATER:** Slight      **pH:** N/A  
**APPEARANCE AND ODOR:** Pale yellow to clear liquid, strong ethereal odor.

## IV - Fire and Explosion Hazard Data

**FLASH POINT (°F):** < -56    **(TEST METHOD):** T.C.C.      **NFPA 30B Rating:** 3  
**FLAMMABLE LIMITS IN AIR (VOLUME %)**    **UPPER:** 48.0      **LOWER:** 1.8  
**EXTINGUISHING MEDIA:** Foam, carbon dioxide, dry chemical.  
**SPECIAL FIRE FIGHTING PROCEDURES:** Avoid possible accumulations of vapors at floor level, as vapor is heavier than air. Cool fire exposed containers with water fog. Firefighters should be equipped with full protective gear including self-contained breathing apparatus.  
**UNUSUAL FIRE AND EXPLOSION HAZARD:** Contents under pressure! Exposure to temperatures above 120° F may cause bursting. Extremely flammable.

### V - Reactivity Data

**STABILITY:** Unstable explosive peroxides may be formed and concentrate by evaporation to hazardous levels. This process is favored by prolonged storage with exposure to air and light. Product is generally stable in sealed metal containers.

**INCOMPATIBILITY:** Strong acids and oxidizers.

**CONDITIONS TO AVOID:** Excess heat, open flame sparks.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may produce oxides of carbon.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** None

### VI - Health Hazard Data

**ROUTES OF ENTRY**    **INHALATION:** X    **EYE CONTACT:**    **SKIN CONTACT:** X    **INGESTION:**  
**INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN CARCINOGENS:** None

#### EFFECTS OF OVEREXPOSURE

**IF IN EYES:** Irritation.

**IF ON SKIN:** Irritation, defatting and dermatitis with prolonged or repeated exposure.

**IF SWALLOWED:** Gastrointestinal irritation, nausea, cramps, diarrhea. May be harmful or fatal if swallowed.

**IF INHALED:** : Dizziness, strong anesthesia, intoxication, loss of consciousness.

#### EMERGENCY AND FIRST AID PROCEDURES

**IF IN EYES:** Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. If irritation persists, obtain medical attention.

**IF ON SKIN:** Remove contaminated clothing and wash with soap and water.

**IF SWALLOWED:** Contact physician or poison control center immediately. Do not induce vomiting. Proper treatment is dependent upon condition of patient and amount ingested.

**IF INHALED:** Remove person to fresh air. If breathing has stopped, administer artificial respiration. Obtain medical attention.

### VII - Spill or Leak Protection

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Ventilate area and remove all sources of ignition. CO<sub>2</sub> may be used as a precautionary blanket. Soak up material with inert absorbent material and place in a labeled closed container for disposal.

**WASTE DISPOSAL METHOD:** Consult local environmental authorities. Dispose of cans in non-incinerated trash only.

### VIII - Special Protection Information

**RESPIRATORY PROTECTION:** Use with adequate ventilation. Do not breathe vapors or mists. If recommended Exposure Limits are exceeded, wear a NIOSH approved respirator, following manufacturer's recommendations.

**VENTILATION**

**LOCAL:** Recommended

**MECHANICAL:** Not required

**PROTECTIVE GLOVES:** Chemical resistant.

**EYE PROTECTION:** Safety glasses or goggles.

**OTHER PROTECTIVE EQUIPMENT:** None.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Store in a cool, dry place away from heat or open flame.

**OTHER PRECAUTIONS:** Keep out of reach of children. Do not puncture or incinerate container.

### IX - Transportation Information (ground transportation only)

**DOT PROPER SHIPPING NAME:** Consumer Commodity

**DOT CLASS:** ORM-D

**DOT ID NUMBER:** None

**DOT PACKING GROUP:** None

The shipping information listed above applies only to non-bulk (< 119 gallons) containers of this product. This product may have more than one proper shipping name depending on packaging, product properties, & mode of shipment. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may apply.

REVISION DATE: April 9, 2002

Prepared by: PMR

DATE OF ISSUE: May 2, 2002

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