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1-30-2023: File reviewed, more current MSDS/SDS not available, JMC

Material Safety Data Sheet

MSDS

Revised 25 Aug 2005

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ZERO START STARTING FLUID (Cylinders 820-0327, 820-0335, 820-1277, 820-1137)

MATERIAL IDENTIFICATION

Distributor U.S.A: Distributor Canada: Phillips & Temro Industries Inc. Phillips & Temro Industries Ltd.

9700 West 74th Street 100 Paquin Road

Eden Prairie, MN 55344 Winnipeg, Manitoba Canada R2J 3V4

Telephone:

U.S.: 952-941-9700 Canada: 204-667-2260

Transportation Emergency:

U.S. Canada

Telephone Chemtrec: 800-424-9300 CANUTEC: 613-996-6666

Chemical Trade Name,

Synonyms: NA

Chemical Family: Mixture

Chemical Formula: Proprietary Formula

COMPONENTS

MaterialCAS NumberPEL/TLV, SourcePercentDiethyl Ether60-29-7400 ppm, ACGIH60-75

Heptane, related light

hydrocarbons 142-82-5 500 ppm, OSHA 15-25

.

PHYSICAL DATA

Boiling Range 94°F, for Diethyl ether

Pressure in can at 70°F Approx. 150 psig

Vapor Density (Air=1) Approx. 2.5

Solubility in water Approx. 6% at 70°F

Specific Gravity (Water=1) 0.70

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Percent Volatile by weight 86.0

Evaporation Rate (BuAce=1) Approx. 6

Appearance and odor Pale yellow to clear liquid, strong ethereal odor,

evaporates quickly, leaves slight lubricant residue.

HAZARDOUS REACTIVITY

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. Generally

stable in sealed metal containers.

Conditions to avoid Heat, sparks, flames, strong oxidizers.

Hazardous Polymerization Will not occur

Hazardous Decomposition

Products

Carbon monoxide may form on combustion.

FIRE AND EXPLOSION DATA

Flammability Category Extremely Flammable (Reference - Consumer Product

Commission, flame projection test for aerosol products, per 16 CFR 1500.45)

Flash Point Less than -56°F, TCC

Flammable Limits LEL% 1.8 UEL% 48.0

Extinguishing Media Dry chemical, Carbon dioxide, water-fog or mist only,

alcohol foam.

Unusual Fire and Avoid possible bursting of aerosol can. Do not store

Explosion Hazards where temperature may exceed 120°F. Do

Not puncture or incinerate.

Special Fire Fighting

Procedures

Avoid possible accumulations of vapors at floor level, as vapor is heavier than air. Self-contained

breathing apparatus and protective clothing should be

worn in fighting fires involving chemicals.

This product is extremely flammable at all times. Avoid inadvertent ignition sources, including static spark. If product vapor is allowed to accumulate in air, a dangerous fire and explosion hazard exists.

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HEALTH HAZARD INFORMATION

Suggested Exposure Guideline 400 ppm, (for Diethyl Ether, ACGIH)

Primary Route of Exposure

Inhalation, skin contact

Inhalation Dizziness, strong anesthesia, intoxication,

unconsciousness.

Skin Contact Irritation upon prolonged contact, defatting of skin.

Eve Contact Irritation

Carcinogenicity None of the components in this material is listed by

IARC, NTP, OSHA, or ACGIH as a carcinogen.

Additional Health

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Hazard Data Avoid contact with skin, eyes, or clothing.

FIRST AID

Inhalation Remove to fresh air. Artificial respiration, consult

physician.

Skin Contact Wash with soap and water. Remove soaked clothing

to avoid prolonged skin contact.

Flush eyes well with running water for 15 minutes. **Eye Contact**

Ingestion Call Physician or poison control center immediately.

Proper treatment is dependent on condition of patient

and amount ingested.

SPILL OR LEAK PROCEDURES

Steps to be taken in Case material is released

or spilled.

Keep away from heat, fire, sparks, or flame. Ventilate area well. CO2 may be used as a precautionary vapor blanket. Small amounts may be flushed away with

water.

Waste disposal method Dispose of in accordance with all local, state and

Federal regulations. Do not puncture or incinerate.

Avoid any contamination of groundwater.

SPECIAL PROTECTION INFORMATION

Respiration Protection If TLV is exceeded wear NIOSH-approved self-

contained breathing device or respirator.

Ventilation Must be adequate to maintain vapors at less than

400ppm, particularly at floor level as vapors are

heavier than air.

Protective gloves None needed for normal use. Nitrile or other

impervious type may be used for prolonged exposure.

Eye Protection Safety glasses or goggles recommended

HANDLING AND STORAGE PRECAUTIONS

Precautions to be taken

in handling and storage Do not store where temperature may exceed 120°F.

Store away from, fire, sparks, or flame. Store in suitable area for hazardous materials storage.

D.O.T. Shipping

Classification Compressed Gas, Flammable N.O.S. (Ether, Carbon

Dioxide)

Hazard Class 2.1

ID Number UN1954

Label Required Flammable Gas

SPECIAL PRECAUTIONS

Precautions for usage Do not use near heat, fire, flame or sparks. Avoid

excessive breathing of vapor. Do not spray in direction of body. Use only in accordance with directions.

Hazard Ratings:

4 = Extreme Health = 2 3 = High Fire = 3 2 = Moderate Reactivity = 0

1 = Slight 0 = Insignificant

Notice: This data represents typical values, not product specifications. No guarantee of accuracy or completeness is made. No responsibility is assumed for any kind of loss or damages arising from use of this data.

End of MSDS