

MATERIAL SAFETY DATA SHEET  
The Valvoline Company Page 001  
Date Prepared: 01/14/02  
Date Printed: 01/02/07  
MSDS No: 503.0340955-001.005  
NAPA PREM STARTING FLUID

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: NAPA PREM STARTING FLUID  
SAP Material No: PYSFP11  
General or Generic ID: SOLVENT BLEND  
Company Telephone Numbers  
The Valvoline Company Emergency: 1-800-274-5263  
P.O. Box 14000  
Lexington, KY 40512 Information: 1-859-357-7206

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s) CAS Number % (by weight)

-----  
HEPTANE 142-82-5 60.0- 70.0  
ETHYL ETHER ACS REAGENT GRADE 60-29-7 23.0- 33.0  
CARBON DIOXIDE 124-38-9 1.0- 11.0

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3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye

May cause mild eye irritation.

Skin

Can cause skin irritation. Prolonged or repeated contact may dry and crack the skin. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use.

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Swallowing

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

Inhalation

Breathing aerosol and/or mist is possible when material is sprayed. Aerosol and mist may present a greater risk of injury because more material may be present in the air than from vapor alone. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms usually occur at air concentrations higher than the recommended exposure limits (See

Section 8).

Symptoms of Exposure

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea) irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), loss of appetite, loss of coordination irregular heartbeat, narcosis (dazed or sluggish feeling).

Target Organ Effects

testis damage, lung damage, visual impairment, central nervous system effects.

Developmental Information

There are no data available for assessing risk to the fetus from maternal exposure to this material.

Cancer Information

This material is not listed as a carcinogen by the International Agency for Research on Cancer, the National Toxicology Program, or the Occupational Safety and Health Administration.

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Other Health Effects

No data

Primary Route(s) of Entry

Inhalation, Skin absorption, Skin contact, Eye contact.

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4. FIRST AID MEASURES

Eyes

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

Skin

Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

Swallowing

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

Note to Physicians

Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity (See Section 3 - Swallowing) when deciding whether to induce vomiting. Preexisting

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disorders of the following organs ( or organ systems) may be aggravated by exposure to this material: skin, lung (for example, asthma-like conditions), Individuals with pre-existing heart disorders may be more susceptible to arrhythmias (irregular heartbeats) if exposed to high concentrations of this material.

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5. FIRE FIGHTING MEASURES

Flash Point

Not applicable

Explosive Limit

(for component) Lower 1.0 %

Autoignition Temperature

No data

Hazardous Products of Combustion

May form:

Fire and Explosion Hazards

Material is highly volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

Extinguishing Media

No data

Fire Fighting Instructions

Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

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NFPA Rating  
Health - 1, Flammability - 4, Reactivity - 0

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#### 6. ACCIDENTAL RELEASE MEASURES

##### Small Spill

Eliminate all sources of ignition such as flares, flames (including pilot lights), and electrical sparks. Absorb liquid on vermiculite, floor absorbent or other absorbent material. Persons not wearing proper personal protective equipment should be excluded from area of spill.

##### Large Spill

Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Eliminate all ignition sources (flares, flames, including pilot lights, electrical sparks).

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#### 7. HANDLING AND STORAGE

##### Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. All five gallon pails and larger metal containers including tank cars and tank trucks should be grounded and/or bonded when material is transferred. Precautions during use: avoid prolonged or frequently repeated skin contact with this material. Skin contact can be minimized by wearing impervious protective gloves. As with all products of this nature, good personal hygiene is essential. Hands and other exposed areas should be washed thoroughly with soap and water after contact, especially before eating and/or smoking. Regular laundering of contaminated clothing is essential to reduce indirect skin contact with this material. Hydrocarbon solvents are basically non-conductors of electricity and can become electrostatically charged during mixing, filtering or pumping at high flow rates.

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If this charge reaches a sufficiently high level, sparks can form that may ignite the vapors of flammable liquids.

##### Storage

Do not store near extreme heat, open flame, or sources of ignition.

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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### Eye Protection

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

Skin Protection

Wear resistant gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

Respiratory Protections

If workplace exposure limit(s) of product or any component is exceeded (See Exposure Guidelines), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (consult your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

Engineering Controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

Exposure Guidelines

Component

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HEPTANE (142-82-5)

OSHA VPEL 1600.000 mg/m3 - TWA

OSHA VPEL 400.000 ppm - TWA

OSHA VPEL 500.000 ppm - STEL

OSHA VPEL 2000.000 mg/m3 - STEL

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ACGIH TLV 400.000 ppm - TWA

ACGIH TLV 1640.000 mg/m3 - TWA

ACGIH TLV 2050.000 mg/m3 - STEL

ACGIH TLV 500.000 ppm - STEL

ETHYL ETHER ACS REAGENT GRADE (60-29-7)

No exposure limits established

CARBON DIOXIDE (124-38-9)

OSHA VPEL 10000.000 ppm - TWA

OSHA VPEL 18000.000 mg/m3 - TWA

OSHA VPEL 54000.000 mg/m3 - STEL

OSHA VPEL 30000.000 ppm - STEL

ACGIH TLV 9000.000 mg/m3 - TWA

ACGIH TLV 5000.000 ppm - TWA

ACGIH TLV 54000.000 mg/m3 - STEL

ACGIH TLV 30000.000 ppm - STEL

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9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point

(for component) 94.0 F (34.4 C)

Vapor Pressure

(for component) 439.000 mmHg

Specific Vapor Density

> 1.000 @ AIR=1

Specific Gravity

.690 - .720 @ 77.00 F  
Liquid Density  
5.860 lbs/gal @ 77.00 F  
.705 kg/l @ 25.00 C

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Percent Volatiles (Including Water)

No data

Evaporation Rate

SLOWER THAN ETHYL ETHER

Appearance

No data

State

LIQUID

Physical Form

No data

Color

No data

Odor

No data

pH

Not applicable

Flame Propagation

> 18.000 in

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#### 10. STABILITY AND REACTIVITY

Hazardous Polymerization

Product will not undergo hazardous polymerization.

Hazardous Decomposition

May form: carbon dioxide and carbon monoxide, various hydrocarbons.

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Chemical Stability

Stable.

Incompatibility

Avoid contact with: aldehydes, alkanol amines, amines, ammonia, chlorinated solvents, oxygen, strong bases, strong oxidizing agents.

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#### 11. TOXICOLOGICAL INFORMATION

No data

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12. ECOLOGICAL INFORMATION

No data

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13. DISPOSAL CONSIDERATION

Waste Management Information

Dispose of in accordance with all applicable local, state and federal regulations.

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14. TRANSPORT INFORMATION

DOT Information - 49 CFR 172.101

DOT Description:

CONSUMER COMMODITY,ORM-D

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Container/Mode:

CASES/SURFACE - ORM-D EXCEPTION

NOS Component:

None

RQ (Reportable Quantity) - 49 CFR 172.101

Product Quantity (lbs) Component

-----  
333 DIETHYL ETHER

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15. REGULATORY INFORMATION

US Federal Regulations

CERCLA RQ - 40 CFR 302.4

None

SARA 302 Components - 40 CFR 355 Appendix A

None

Section 311/312 Hazard Class - 40 CFR 370.2

Immediate(X) Delayed(X) Fire(X) Reactive( ) Sudden

Release of Pressure( )

SARA 313 Components - 40 CFR 372.65

None

International Regulations

Inventory Status

Not determined

State and Local Regulations

California Proposition 65

None

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New Jersey RTK Label Information  
N-HEPTANE 142-82-5  
CARBON DIOXIDE 124-38-9  
Pennsylvania RTK Label Information  
HEPTANE (N-) 142-82-5  
CARBON DIOXIDE 124-38-9

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

Mac's Starting Fluid

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Effective Date: 5-21-04 Revision Date: none

Mac's Starting Fluid

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Section 1 - Product and Company Identification

PRODUCT NAME: Mac's Starting Fluid

MANUFACTURER'S NAME: EMERGENCY TELEPHONE NUMBER

Technical Chemical Corp. (817)645-6088

P O BOX 139

CLEBURNE , TX 76033 MISCELLANEOUS INFORMATION

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Mac's Starting Fluid

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Section 1 - Product and Company Identification - Continued

MATERIAL SAFETY DATA SHEET

Trade Name: Johnsens Starting Fluid 25%

MSDS NO. 6762

Revision Date: 03/28/2002

Date Printed 05/21/2004

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Johnsens Starting Fluid 25%

Chemical Family: ETHER

Synonyms: None

Emergency Telephone (24 hr.): 24-Hour Emergency Information: CHEMTREC (800) 424-9300

Supplier: Technical Chemical Company, P.O. Box 139, Cleburne, Texas 76033

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient/CAS No.

wt. %

OSHA PEL

TWA

OSHA PEL  
Ceiling Limits  
ACGIH TLV  
TWA  
ACGIH TLW  
STEL  
Heptane  
142-82-5 40-50 500 ppm: 2000  
mg/m3  
None Established 400 ppm: 1640 mg/m3 500 ppm  
Ethyl Ether  
60-29-7  
23-30 400 ppm None Established 400 ppm 500 ppm  
Propane  
74-98-6 15-25 1000 ppm Not Known 2500 ppm Not Known  
Carbon Dioxide  
124-38-9  
2-10 5000 ppm  
(exposures <10,000  
ppm to be cited de  
minimus)  
Not Known 5000 ppm 30,000 ppm  
Iso-Butane  
75-28-5  
5-15 None Established None Established None Established None Established  
Lubricating Oil  
64742-52-5 0-5 Not known Mist 5 mg/m3 TLV Mist 5 mg/m3 8  
HR.  
Not Known  
This product contains trace amounts of (<15 ppm) of Butylated hydroxytoluene  
(BHT) as an inhibitor to prevent or reduce  
the formation of potentially explosive peroxides.

### 3. HAZARDS IDENTIFICATION

Emergency Overview: Danger: Extremely flammable. Breathing high  
concentrations of vapor or mist may cause nausea, vomiting, central  
nervous system (CNS) depression and asphyxiation. Symptoms may include  
headache, dizziness, blurred vision, slurred

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Mac's Starting Fluid  
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#### Section 1 - Product and Company Identification - Continued

speech, memory loss, confusion, faigue, loss of consciousness, convulsions,  
paralysis, or coma. This material is irritating  
to skin, eyes and respiratory tract. Keep away from heat, sparks and flame.  
Prolonged or repeated inhalation or ingestion  
may result in kidney and liver changes.

HMIS Classification: Health: \*2 Flammability: 4 Physical Hazard: 2

NFPA Rating: Health: 2 Flammability: 4 Reactivity: 1

#### 4. FIRST AID MEASURES

Eye Contact: In case of contact, or suspected contact, immediately flush  
eyes with plenty of water for at least 15 minutes and get  
medical attention immediately after flushing. Do not permit victim to rub

eyes.

Ingestion: If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person. Get medical attention! If vomiting occurs, keep head lower than hips to prevent aspiration.

Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

Skin Contact: Wash with soap and water for 15 minutes. If irritation persists or signs of toxicity occur, seek medical attention. Remove contaminated clothing and shoes, and launder before reuse.

#### 5. FIRE FIGHTING MEASURES

##### Flammable Properties

Flash Point F(C): <-10 F

Flash Point Method: TAG Closed Cup

Flammable Limits in Air - Lower (%): 1.2% (Lowest Component)

Flammable Limits in Air - Upper (%): 6.7% (Lowest Component)

Autoignition Temperature F(C): 356 F (Lowest Component)

Extinguishing Media: Dry chemical. Carbon dioxide. Alcohol foam. Use water spray to keep containers cool that are

Trade Name: Johnsens Starting Fluid 25% MSDS NO. 6762

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exposed to heat or flames.

##### Protection Of Fire-Fighters:

Special Fire-Fighting Procedures: Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Vapor may cause flash fire. Fight from a maximum distance or use unmanned hose holders or monitor

nozzles. Containers can build up pressure if exposed to heat; cool with flooding quantities of water

until well after the fire is out. Withdraw immediately in case of rising sound from venting safety

devices or discoloration of vessel.

Hazardous Combustion Products: Carbon Dioxide. Carbon Monoxide.

Aerosol Comments: NFPA Level 3 Aerosol

#### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective clothing and equipment to prevent skin and eye contact.

Spill Procedures: Contain any liquid from leaking containers. Avoid all sources of ignition; heat, sparks and open flames.

Do not puncture or incinerate container. Contents under pressure. Wear proper protective equipment as specified in

the protective equipment section. Remove sources of ignition. Leaking

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#### Section 1 - Product and Company Identification - Continued

containers should be removed to an isolated, well-ventilated area and transferred to other suitable containers. Wipe, scrape, or soak up in an inert material and put in a container intended for flammable materials for disposal.

Environmental Precautions: Do not allow to enter sanitary drains, sewer or surface and subsurface waters. Keep out of lakes, ponds or streams.

7. HANDLING AND STORAGE

Handling and

Storage:

Caution: Contents under pressure. Keep away from heat and open flame. Use only in a well ventilated area. Avoid breathing vapors, if exposed to high vapor concentration, leave area at once. Avoid contact with skin and eyes. Do not puncture, incinerate or store above 120 F. Exposure to high temperatures may cause bursting. DO NOT store in the passenger compartment of an automobile. Store in a cool, dry place, out of direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use in a well ventilated area. Local exhaust ventilation as necessary to maintain exposures to within applicable limits.

Eyes: Chemical goggles; also wear a face shield if splashing hazard exists.

Skin Protection: Avoid skin contact. Wear protective clothing and gloves.

Respiratory Protection: Do not breath mist or vapor. Use in a well ventilated area. Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless to pale yellow liquid

Odor: PUNGENT SWEET pH Value: Not Determined

Vapor Pressure: Not Determined Vapor Density (Air=1): >1.5 Approximate

Boiling Point (F): -44 F (Lowest Component) Melting/Freezing Point: Freezing -176F (Ether)

Solubility in Water: PARTLY SOLUBLE Bulk Density at 20C: Not Determined

Molecular Weight: Mixture Evaporation Rate: Not Determined

Viscosity: Not Determined. Specific Gravity (H2O=1): Not Determined

VOC Content(%): Not determined. Decomposition Temperature: Not Determined

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of handling, use and transportation.

Conditions to Avoid: Keep away from heat, sparks and flame. Avoid any source of ignition. Do not expose to heat or store at temperatures above 120 F.

Materials to Avoid: Contact with oxidizing agents. Concentrated oxygen.

Nitric acid. Avoid contact with chlorine in the presence of light.

Hazardous Decomposition Products: Carbon monoxide. and other asphxiants.

Explosive peroxides. Will react with nitric acid to form explosive nitrates.

Hazardous Polymerization: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

Ingredient/CAS No.

wt. %

Route

Species

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Section 1 - Product and Company Identification - Continued

Dose

Heptane

142-82-5

40-50 Inhalation Rats LC50 103 gm/m3/4H

Ethyl Ether

60-29-7 23-30 Inhalation Mice LC50 31000 ppm/30M

Propane

74-98-6 15-25 NA NA Not known.

Carbon Dioxide

124-38-9 2-10 NA NA Not known.

Iso-Butane

75-28-5 5-15 Inhalation Rats LC50 57 pph/15M

Lubricating Oil

64742-52-5 0-5 NA NA Not known.

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Carcinogenicity:

Ingredient/CAS No.

wt. %

IARC

NTP

OSHA

Heptane

142-82-5 40-50 Not Listed Not Listed Not Listed

Ethyl Ether

60-29-7 23-30 Not Listed Not Listed Not Listed

Propane

74-98-6

15-25 Not Listed Not Listed Not Listed

Carbon Dioxide

124-38-9 2-10 Not Listed Not Listed Not Listed

Iso-Butane

75-28-5

5-15 Not Listed Not Listed Not Listed

Lubricating Oil

64742-52-5 0-5 Not Listed Not Listed Not Listed

12. ECOLOGICAL INFORMATION

Ecological testing has not been conducted on this product.

13. DISPOSAL CONSIDERATION

Waste Classification: Residues and spilled material are hazardous waste due to ignitability.

Waste Management: Not determined.

Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

U.S. DOT:

Proper Shipping Name: Aerosols, flammable, n.o.s. (Engine Starting Fluid)

Hazard Class: 2.1 (limited quantity)

UN/NA Number: UN 1950

DOT Packing Group: Not Determined

IMDG:

Proper Shipping Name: Aerosols (Limited Quantity)

Hazard Class: 2.1

Hazard Subclass: Not determined.  
UN No.: UN 1950

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Packing Group: Not Determined  
Marine Pollutant: No

15. REGULATORY INFORMATION

US Federal Regulations:

Ingredient/CAS No.

wt. %

SARA 313

SARA 302

RQ

TPQ

Heptane

142-82-5 40-50 Not Listed Not Listed NA NA

Ethyl Ether

60-29-7 23-30 Not Listed Not Listed 100 lbs. NA

Propane

74-98-6 15-25 Not Listed Not Listed NA NA

Carbon Dioxide

124-38-9 2-10 Not Listed Not Listed NA NA

Iso-Butane

75-28-5 5-15 Not Listed Not Listed NA NA

Lubricating Oil

64742-52-5

0-5 Not Listed Not Listed NA NA

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Hazardous per OSHA 29 CFR 1910.1200

SARA 311/312 Hazard Categories: Immediate/Acute, Delayed/Chronic, Fire

State Regulations:

Ingredient/CAS No.

wt. %

California Prop. 65

Cancer list

California Prop. 65

Developmental

Toxicity

California Prop. 65

Reproductive Female

California Prop. 65

Reproductive Male

Heptane

142-82-5 40-50 Not Listed Not Listed Not Listed Not Listed

Ethyl Ether

60-29-7 23-30 Not Listed Not Listed Not Listed Not Listed

Propane

74-98-6 15-25 Not Listed Not Listed Not Listed Not Listed

Carbon Dioxide

124-38-9 2-10 Not Listed Not Listed Not Listed Not Listed

Iso-Butane

75-28-5

5-15 Not Listed Not Listed Not Listed Not Listed

Lubricating Oil

64742-52-5 0-5 Not Listed Not Listed Not Listed Not Listed

U.S. TSCA: The components of this product are listed on the TSCA Inventory.

16. OTHER INFORMATION

General Notes: Do not allow undiluted material or large quantities to reach

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Section 1 - Product and Company Identification - Continued

groundwater, bodies of water or sewer system.

Disclaimer:

The information and recommendations contained herein are based upon tests believed to be reliable. However, the manufacturer/distributor of this product does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. The manufacturer/distributor assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.