The Valvoline Company

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Date Prepared: 01/19/00 Date Printed: 02/08/00

MSDS No: 503.0340955-001.002

NAPA PREMIUM STARTING FLUID

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: NAPA PREMIUM STARTING FLUID

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:

1-606-357-7206

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% (by weight)
HEPTANE		51.0- 61.0
ETHYL ETHER CARBON DIOXIDE		27.0- 37.0 1.0- 11.0
HEXANE	110-54-3	6.0- 6.0

## 3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye

May cause mild eye irritation. Symptoms include stinging, tearing, and redness.

Skin

Can cause skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, burns and other skin damage. 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 enter the lungs during swallowing or vomiting and cause lung inflammation and/or damage.

#### Inhalation

Breathing of vapor or mist is possible. 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

Prolonged and repeated exposure to n-hexane may cause peripheral neuropathy by damaging peripheral nerve tissue (that of the arms and legs) and result in muscular weakness and loss of sensation. Prolonged and repeated inhalation of high levels of mixed isomers of hexane resulted in kidney damage in male rats. The effects observed are the same as those seen in male rats exposed to other hydrocarbons. The mechanism by which these chemicals cause the characteristic kidney toxicity is unique to the male rat and the kidney effects are not expected to occur in man. Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals, and may aggravate preexisting disorders of these organs in humans: mild, reversible liver effects, mild, reversible kidney effects, nasal damage, testis damage, lung damage, Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans, and may aggravate preexisting disorders of these organs: central nervous system effects, visual impairment.

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Developmental Information

This material (or a component) has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.

Cancer Information

Based on the available information, this material cannot be classified with regard to carcinogenicity. This material is not listed as a carcinogen by IARC, NTP or OSHA.

Other Health Effects No data

Primary Route(s) of Entry
Inhalation, Skin absorption, Skin contact, Eye contact.

#### 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.

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

#### 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: carbon dioxide and carbon monoxide, various hydrocarbons.

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.

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Extinguishing Media regular foam, carbon dioxide, dry chemical.

# Fire Fighting Instructions

Water may be used to keep fire-exposed containers cool until fire is out. 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.

NFPA Rating

Health - 1, Flammability - 4, Reactivity - 0

#### 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 occured. 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).

## 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. Avoid prolonged or repeated contact.

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Storage

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

#### 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

**HEPTANE** (142-82-5)

OSHA VPEL 400.000 ppm - TWA

OSHA VPEL 500.000 ppm - STEL

ACGIH TLV 400.000 ppm - TWA

ACGIH TLV 500.000 ppm - STEL

#### **ETHYL ETHER (60-29-7)**

OSHA VPEL 400.000 ppm - TWA

OSHA VPEL 500.000 ppm - STEL

ACGIH TLV 400.000 ppm - TWA

ACGIH TLV 500.000 ppm - STEL

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CARBON DIOXIDE (124-38-9)
OSHA VPEL 10000.000 ppm - TWA
OSHA VPEL 30000.000 ppm - STEL
ACGIH TLV 5000.000 ppm - TWA
ACGIH TLV 30000.000 ppm - STEL

HEXANE (110-54-3)
OSHA VPEL 50.000 ppm - TWA
ACGIH TLV 50.000 ppm - TWA

#### 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

Percent Volatiles (Including Water)
100.0 %

Evaporation Rate
SLOWER THAN ETHYL ETHER

Appearance No data

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State

LIQUID

Physical Form No data

Color

No data

Odor

No data

pН

Not applicable

Flame Propagation > 18.000 IN

# 10. STABILITY AND REACTIVITY

Hazardous Polymerization
Product will not undergo hazardous polymerization.

Hazardous Decomposition

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

Chemical Stability Stable.

Incompatibility

Avoid contact with: strong oxidizing agents.

Page 009 The Valvoline Company Date Prepared: 01/19/00 Date Printed: 02/08/00 MSDS No: 503.0340955-001.002 NAPA PREMIUM STARTING FLUID 11. TOXICOLOGICAL INFORMATION No data 12. ECOLOGICAL INFORMATION No data 13. DISPOSAL CONSIDERATION Waste Management Information Dispose of in accordance with all applicable local, state and federal regulations. 14. TRANSPORT INFORMATION DOT Information - 49 CFR 172.101 DOT Description: CONSUMER COMMODITY, ORM-D Container/Mode: CASES/SURFACE - ORM-D EXCEPTION NOS Component: None

RQ (Reportable Quantity) - 49 CFR 172.101 Product Quantity (lbs) Component

314 DIETHYL ETHER

# 15. REGULATORY INFORMATION

US Federal Regulations
TSCA (Toxic Substances Control Act) Status
TSCA (UNITED STATES) The intentional ingredients of this
product are listed.

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CERCLA RQ - 40 CFR 302.4

Component Component ETHYL ETHER 100 5000 HEXANE

SARA 302 Components - 40 CFR 355 Appendix A

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 Section 313 Component(s) CAS Number

N-HEXANE

110-54-3

# International Regulations

Inventory Status

AICS (AUSTRALIA) The intentional ingredients of this product are listed.

DSL (CANADA) The intentional ingredients of this product are listed.

ECL (SOUTH KOREA) The intentional ingredients of this product are listed.

EINECS (EUROPE) The intentional ingredients of this product are listed.

State and Local Regulations California Proposition 65 None

New Jersey RTK Label Information

142-82-5 N-HEPTANE DIETHYL ETHER 60-29-7 124-38-9 CARBON DIOXIDE 110-54-3 N-HEXANE

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Pennsylvania RTK Label Information

HEPTANE (N-)

ETHANE, 1,1'-OXYBIS-

CARBON DIOXIDE

HEXANE

142-82-5

60-29-7

124-38-9

110-54-3

## 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.