The Valvoline Company

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Date Prepared: 08/24/98 Date Printed: 12/07/99

MSDS No: 503.0340954-001.001

PYROIL STARTING FLUID

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity and appropriately and the second second

Product Name: PYROIL 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: 1-606-357-7847

COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% (by weight)
HEPTANE	142-82-5	67.0- 77.0
ETHYL ETHER	50-29 - 7	10.0- 20.0
CARBON DIOXIDE	124-38-9	4.8- 15.0
HEXANE	110-54-3	2.7- 2.7

HAZARDS IDENTIFICATION

Potential Health Effects

Eye

Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes. Additional symptoms of eye exposure may include: blurred vision

Skin

May cause mild skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, buring, drying and cracking of skin, and skin burns.

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.

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Inhalation

Breathing of vapor or mist is possible.

Symptoms of Exposure

stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), and death.

Target Organ Effects

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.

Developmental Information No data

Cancer Information
No data

Other Health Effects
No data

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

4. FIRST AID MEASURES

Eyes

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

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Skin

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

Swallowing

Do not induce vomiting. This material is an aspiration hazard. If individual is drowsy or unconscious, place on left side with the head down. Seek medical attention. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

Note to Physicians No data

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
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

5. ACCIDENTAL RELEASE MEASURES

Small Spill

Allow to evaporate. Eliminate all sources of ignition such as flares, flames (including pilot lights), and electrical sparks. Ventilate area.

Large Spill

Allow to evaporate. Persons not wearing protective equipment should be excluded from area until leak has been repaired. 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.

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Storage

Not applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection

Not required under normal conditions of use.

Skin Protection

Not required under normal conditions of use., Other protective equipment: not required under normal conditions of use..

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 (50-29-7)

OSHA VPEL 400.000 ppm - TWA

OSHA VPEL 500.000 ppm - STEL

ACGIH TLV 400.000 ppm - TWA

ACGIH TLV 500.000 ppm - STEL

CARBON DIOXIDE (124-38-9)

OSHA VPEL 10000.000 ppm - TWA

OSHA VPEL 30000.000 ppm - STEL

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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 .773 @ 77.00 F

Liquid Density 5.800 lbs/gal @ 77.00 F .773 kg/l @ 25.00 C

Percent Volatiles (Including Water)
No data

Evaporation Rate SLOWER THAN ETHYL ETHER

Appearance No data

State LIQUID

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Physical Form

No data

Color

CLEAR

Odor

No data

рН

No data

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.

11. TOXICOLOGICAL INFORMATION

No data

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12. ECOLOGICAL INFORMATION

No data

13. DISPOSAL CONSIDERATION

Waste Management Information

Ventilate area of spill. Allow material to evaporate.

14. TRANSPORT INFORMATION

DOT Information - 49 CFR 172.101
DOT Description:
CONSUMER COMMODITY,ORM-D

Container/Mode:
CASES/SURFACE - ORM-D EXCEPTION

NOS Component:

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

553 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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110-54-3

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CERCLA RQ - 40 CFR 302.4	
Component	Component
ETHYL ETHER HEXANE	100 5000
SARA 302 Components - 40 CFR 355 Appendix None	А
Section 311/312 Hazard Class - 40 CFR 370 Immediate(X) Delayed(X) Fire(X) Release of Pressure()	
SARA 313 Components - 40 CFR 372.55 Section 313 Component(s)	CAS Number
N-HEXANE	110-54-3
International Regulations Inventory Status Not determined	
State and Local Regulations California Proposition 65 None	
New Jersey RTK Label Information N-HEPTANE DIETHYL ETHER CARBON DIOXIDE N-HEXANE	142-82-5 60-29-7 124-38-9 110-54-3
Pennsylvania RTK Label Information HEPTANE (N-) ETHANE, 1,1'-OXYBIS- CARBON DIOXIDE	142-82-5 50-29-7 124-38-9

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HEXANE

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15. 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.

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SOURCE: ASHLAND INC WTR

EASYWTR