The Valvoline Company

Page 001 Date Prepared: 10/14/03 Date Printed: 01/31/05 MSDS No: 503.0347808-003.001

PYROIL LOW VOC ENGINE DEGREASER 12/15 OZ

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION 1.

Material Identity Product Name: PYROIL LOW VOC ENGINE DEGREASER 12/15 OZ SAP Material No: PYEDG15 General or Generic ID: ENGINE DEGREASER

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The Valvoline Company P.O. Box 14000 Lexington, KY 40512

Telephone Numbers 1-800-274-5263 Emergency: Information: 1-859-357-7206

COMPOSITION/INFORMATION ON INGREDIENTS 2.

<pre>Ingredient(s)</pre>	CAS Number	% (by weight)
ALIPHATIC PETROLEUM DISTILLATES KEROSENE AROMATIC PETROLEUM DISTILLATES CARBON DIOXIDE	64742-53-6 8008-20-6 64742-94-5 124-38-9	40.0- 50.0

HAZARDS IDENTIFICATION 3.

Potential Health Effects

Eye

Can cause severe eye irritation and injure eye tissue. Additional symptoms of eye exposure may include: blurred vision.

Skin

May cause mild 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.

Swallowing

Swallowing this material 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. Aeroso and mist may present a greater risk of injury because more material may be present in the air than from vapor alone. Breathing this material may be harmful. Symptoms usually occur at air concentrations higher than the recommended exposure limits (See Section 8). Aerosol

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), cough, central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), involuntary eye movement respiratory depression (slowing of the breathing rate), loss of coordination, confusion, irregular heartbeat, anesthesia, respiratory failure, coma, and death.

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Target Organ Effects

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: testis damage, pancreatic damage, liver damage, brain 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: liver damage.

Developmental Information No⁻data

Cancer Information

cer 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. In a National Toxicology Program (NTP) study, lifetime inhalation exposure to naphthalene resulted in increases in tumors of the nose in rats. In a previous NTP study, lifetime exposure to naphthalene caused lung tumors in female mice. Male mice with the same exposure did not develop tumors. The relevance of this finding to humans is uncertain. Naphthalene is listed as carcinogenic by IARC (International Agency for Research on Cancer). This product (or a component) is a petroleum-derived material. Similar materials and certain compounds occurring naturally in petroleum oils have been shown to cause skin cancer in laboratory animals following repeated exposure without washing or removal.

Other Health Effects

No data

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

FIRST AID MEASURES 4.

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.

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. symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical If attention.

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Note to Physicians

e 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: skin, lung (for example, asthma-like conditions), liver, central nervous system, pancreas, 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.

FIRE FIGHTING MEASURES 5.

Flash Point F (48.8 C) COC 120.0

Explosive Limit (for component) Lower 1.0 Upper 19.0

Autoignition Temperature No data

Hazardous Products of Combustion ammonia, carbon dioxide and carbon monoxide, hydrogen sulfide, nitrogen oxides, sulfur oxides, various hydrocarbons.

%

Fire and Explosion Hazards Vapors are heavier than air and may travel along the ground or may 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 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 - 2, Flammability - 2, 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.

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Large Spill

Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from entering drains, sewers, streams of other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal. 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.

HANDLING AND STORAGE 7.

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.

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

ALIPHATIC PETROLEUM DISTILLATES (64742-53-6) OSHA VPEL 5.000 mg/m3 - TWA ACGIH TLV 5.000 mg/m3 - TWA

KEROSENE (8008-20-6)
ACGIH TLV 200.000 mg/m3 - TWA ((Skin))

AROMATIC PETROLEUM DISTILLATES (64742-94-5) Continued on next page

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No exposure limits established

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (for component) 172.4 - 174.2 F (78.0 - 79.0 C) @ 760 mmHg Vapor Pressure

(for component) 733.000 mmHg @ 60.00 F

Specific Vapor Density No data

Specific Gravity .855 @ 77.00 F

Liquid Density No data

Percent Volatiles (Including Water) No data

Evaporation Rate No data

Appearance CLEAR

State LIQUID

Physical Form No data

Color YELLOW

Odor No data

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No data

10. STABILITY AND REACTIVITY

Hazardous Polymerization Product will not undergo hazardous polymerization.

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Hazardous Decomposition

ammonia, carbon dioxide and carbon monoxide, hydrogen sulfide, nitrogen oxides, sulfur oxides, various hydrocarbons.

Chemical Stability Stable.

Incompatibility
 Avoid contact with: excessive heat, oxidizable sustances, strong alkalies,
 strong bases, strong oxidizing agents.

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 48497 NAPHTHALENE

15. REGULATORY INFORMATION

US Federal Regulations CERCLA RQ - 40 CFR 302.4 None

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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 Reactive() Pressure() SARA 313 Components - 40 CFR 372.65 None International Regulations Inventory Status Not determined State and Local Regulations California Proposition 65 None New Jersey RTK Label Information 8008-20-6 KEROSENÊ 124-38-9 CARBON DIOXIDE Pennsylvania RTK Label Information KEROSINE (PETROLEUM) CARBON DIOXIDE 8008-20-6 124-38-9

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.