

PYROIL® LOW VOC ENGINE  
DEGREASER  
PYEDG15

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

Ashland	Regulatory Information Number	1-800-325-3751
P.O. Box 2219	Telephone	614-790-3333
Columbus, OH 43216	Emergency telephone	1-800-ASHLAND (1-800-274-5263)

Product name	PYROIL® LOW VOC ENGINE DEGREASER
Product code	PYEDG15
Product Use Description	No data

**2. HAZARDS IDENTIFICATION**

**Emergency Overview**

Appearance: aerosol

COMBUSTIBLE LIQUID AND VAPOR. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. CAUSES EYE IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION.

**Potential Health Effects**

**Routes of exposure**

Inhalation, Skin contact, Eye Contact

**Eye contact**

Can cause severe eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes. Can injure eye tissue.

**Skin contact**

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

**Ingestion**

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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. 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 are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

### **Aggravated Medical Condition**

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 preexisting heart disorders maybe more susceptible to arrhythmias (irregular heartbeats) if exposed to high concentrations of this material.

### **Symptoms**

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

### **Target Organs**

Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: 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: liver damage

### **Carcinogenicity**

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) and the National Toxicology Program (NTP). This product (or a

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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.

**Reproductive hazard**

Based on the available information, risk to the fetus from maternal exposure to this material cannot be assessed.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Components</b>	<b>CAS-No.</b>	<b>Concentration</b>
DIESEL FUEL #2	68476-34-6	>=80-<90%
AROMATIC HYDROCARBONS	NJTS# 254504001-5543	>=5-<10%
SURFACTANT	NJTS# 254504001-5325	>=5-<10%
CARBON DIOXIDE	124-38-9	>=1.5-<5%
ETHYLENE GLYCOL	111-76-2	>=1.5-<5%
MONOBUTYL ETHER		
BENZENESULFONIC ACID, MONO- AND DI-C15-30-ALKYL D	78330-12-8	>=1-<1.5%
NAPHTHALENE	91-20-3	>=0.5-<1%

**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.

**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.

**Ingestion**

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

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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.

### **Notes to physician**

**Hazards:** 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 2 - Swallowing) when deciding whether to induce vomiting.

**Treatment:** No information available.

## **5. FIRE-FIGHTING MEASURES**

### **Suitable extinguishing media**

Water mist, Carbon dioxide (CO<sub>2</sub>), Dry chemical

### **Hazardous combustion products**

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

### **Precautions for fire-fighting**

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

### **Flammability Class for Flammable Liquids**

Combustible Liquid Class IIIA

## **6. ACCIDENTAL RELEASE MEASURES**

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**Personal precautions**

For personal protection see section 8. 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 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.

**Environmental precautions**

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.

**Methods for cleaning up**

Absorb liquid on vermiculite, floor absorbent or other absorbent material.

**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.

**Storage**

Do not store near extreme heat, open flame, or sources of ignition. Maximum recommended storage temperature 50 degrees C (122 degrees F).

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines**

<b>DIESEL FUEL #2</b>		<b>68476-34-6</b>	
ACGIH	time weighted average	100 mg/m3	Vapor and aerosol.
<b>CARBON DIOXIDE</b>		<b>124-38-9</b>	
ACGIH	time weighted average	5,000 ppm	
ACGIH	Short term exposure limit	30,000 ppm	
NIOSH	Recommended exposure limit (REL):	5,000 ppm	
NIOSH	Recommended exposure limit	9,000 mg/m3	

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	(REL):	
NIOSH	Short term exposure limit	30,000 ppm
NIOSH	Short term exposure limit	54,000 mg/m3
OSHA Z1	Permissible exposure limit	5,000 ppm
OSHA Z1	Permissible exposure limit	9,000 mg/m3

**ETHYLENE GLYCOL MONOBUTYL ETHER 111-76-2**

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ACGIH	time weighted average	20 ppm
NIOSH	Recommended exposure limit	5 ppm
	(REL):	
NIOSH	Recommended exposure limit	24 mg/m3
	(REL):	
OSHA Z1	Permissible exposure limit	50 ppm
OSHA Z1	Permissible exposure limit	240 mg/m3

**General advice**

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

**Exposure controls**

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

**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 and body protection**

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

**Respiratory protection**

If workplace exposure limit(s) of product or any component is exceeded (see exposure guidelines), a NIOSH-approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH respirators

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(negative pressure type) under specified conditions (see your industrial hygienist).  
Engineering or administrative controls should be implemented to reduce exposure.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	aerosol
<b>Form</b>	aerosol
<b>Colour</b>	No data
<b>Odour</b>	No data
<b>Boiling point/boiling range</b>	305.00 °F / 305 °F
<b>pH</b>	No data
<b>Flash point</b>	165 °F / 74 °C
<b>Evaporation rate</b>	No data
<b>Explosion limits</b>	No data
<b>Vapour pressure</b>	No data
<b>Vapour density</b>	1.2 ((Air = 1.0))
<b>Density</b>	No data
<b>Solubility</b>	emulsifiable in water
<b>Partition coefficient: n-octanol/water</b>	No data
<b>log Pow</b>	no data available
<b>Autoignition temperature</b>	No data

## 10. STABILITY AND REACTIVITY

### Stability

Stable.

### Conditions to avoid

excessive heat

### Incompatible products

Avoid contact with:, oxidizable substances, strong alkalis, strong bases, strong oxidizing agents

### Hazardous decomposition products

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Ammonia, carbon dioxide and carbon monoxide, hydrogen sulfide, nitrogen oxides (NOx), Sulphur oxides, various hydrocarbons

**Hazardous reactions**

Product will not undergo hazardous polymerization.

**Thermal decomposition**

No data

**11. TOXICOLOGICAL INFORMATION**

**Acute oral toxicity**

DIESEL FUEL #2	no data available
AROMATIC HYDROCARBONS	LD 50 Rat: 3,000 mg/kg
SURFACTANT	LD 50 Rat: 2,780 mg/kg
CARBON DIOXIDE	no data available
ETHYLENE GLYCOL MONOBUTYL ETHER	LD 50 Guinea pig: 1,200 mg/kg
BENZENESULFONIC ACID, MONO- AND DI-C15-30-ALKYL D	no data available
NAPHTHALENE	LD 50 Rat: 490 mg/kg

**Acute inhalation toxicity**

DIESEL FUEL #2	no data available
AROMATIC HYDROCARBONS	LC 50 Rat: > 3,800 mg/m <sup>3</sup> , 4 h
SURFACTANT	no data available
CARBON DIOXIDE	no data available
ETHYLENE GLYCOL MONOBUTYL ETHER	LC 50 Guinea pig: > 633 ppm, 1 h
BENZENESULFONIC ACID, MONO- AND DI-C15-30-ALKYL D	no data available
NAPHTHALENE	no data available

**Acute dermal toxicity**

DIESEL FUEL #2	no data available
AROMATIC HYDROCARBONS	LD 50 Rabbit: > 3,000 mg/kg
SURFACTANT	no data available
CARBON DIOXIDE	no data available
ETHYLENE GLYCOL MONOBUTYL ETHER	LD 50 Guinea pig: > 2,000 mg/kg

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BENZENESULFONIC ACID, MONO- AND DI-C15-30-ALKYL D	no data available
NAPHTHALENE	LD 50 Rat: > 20,000 mg/kg

## 12. ECOLOGICAL INFORMATION

### Aquatic toxicity

#### Acute and Prolonged Toxicity to Fish

No data

#### Acute Toxicity to Aquatic Invertebrates

No data

### Environmental fate and pathways

No data

## 13. DISPOSAL CONSIDERATIONS

### Waste disposal methods

Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Ashland Distribution's Environmental Services Group at 800-637-7922.

## 14. TRANSPORT INFORMATION

### IMDG:

UN1950, AEROSOLS 2.1,

### IATA\_P:

UN1950, Aerosols, flammable 2.1,

### IATA\_C:

UN1950, Aerosols, flammable 2.1,

### CFR\_ROAD:

UN1950, Aerosols 2.1,

### CFR\_RAIL:

UN1950, Aerosols 2.1,

### CFR\_INWTR:

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UN1950, Aerosols 2.1,

Dangerous goods descriptions (if indicated above) may not reflect package size, quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

**15. REGULATORY INFORMATION**

**California Prop. 65**

WARNING! This product contains a chemical known in the State of California to cause cancer.

NAPHTHALENE  
BENZENE

WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

BENZENE  
TOLUENE

**SARA Hazard Classification** Acute Health Hazard  
Chronic Health Hazard

**SARA 313 Component(s)**

ETHYLENE GLYCOL	111-76-2	2%
MONOBUTYL ETHER		
NAPHTHALENE	91-20-3	0.72%

**Reportable quantity - Product**

US. EPA CERCLA Hazardous Substances (40 CFR 302) 13888 lbs

**Reportable quantity - Components**

DIESEL FUEL #2	68476-34-6	none
AROMATIC HYDROCARBONS	NJTS# 254504001-5543	none
SURFACTANT	NJTS# 254504001-5325	none
CARBON DIOXIDE	124-38-9	none
ETHYLENE GLYCOL	111-76-2	none
MONOBUTYL ETHER		
BENZENESULFONIC ACID, MONO- AND DI-C15-30-ALKYL D	78330-12-8	none

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NAPHTHALENE 91-20-3 100 lbs

	<b>Health</b>	<b>Flammability</b>	<b>Reactivity</b>	<b>Other</b>
<b>HMIS</b>	2	2	0	
<b>NFPA</b>	2	2	0	

#### **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. This MSDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).