

Revision Date: 02/21/2007

Print Date: 3/9/2007 MSDS Number: R0253115

Version: 1.2

## PYROIL® NON-CHLORINATED BRAKE PARTS CLEANER PY4003

## 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 number 1-800-ASHLAND

(1-800-274-5263)

PYROIL® NON-CHLORINATED BRAKE PARTS

**CLEANER** 

Product code PY4003
Product Use Description No data

#### 2. HAZARDS IDENTIFICATION

#### **Emergency Overview**

Appearance: aerosol

DANGER! POISON! Moderate skin irritant, Severe eye irritant.

#### **Potential Health Effects**

#### Routes of exposure

Inhalation, Skin absorption, Skin contact

#### Eve contact

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

#### 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.

#### Ingestion

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 of vapor or mist is possible.



Revision Date: 02/21/2007

Print Date: 3/9/2007 MSDS Number: R0253115

Version: 1.2

## PYROIL® NON-CHLORINATED BRAKE PARTS CLEANER PY4003

#### **Aggravated Medical Condition**

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material:, skin

#### **Symptoms**

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 Organs**

Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals:, cardiac sensitization, liver abnormalities, anemia, spleen damage, nervous system damage, eye damage, kidney damage, lung damage, brain damage, effects on hearing, central nervous system damage, Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans:, liver abnormalities, cardiac sensitization, eye damage, visual impairment

#### Carcinogenicity

No data

### Reproductive hazard.

Toluene may be harmful to the human fetus based on positive test results with laboratory animals. Case studies show that prolonged intentional abuse of toluene during pregnancy can cause birth defects in humans.

#### Other information

No data

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS-No.	Concentration
108-88-3	>=50-<60%
67-56-1	>=20-<30%
64742-89-8	>=15-<20%
124-38-9	>=1.5-<5%
	108-88-3 67-56-1 64742-89-8

#### 4. FIRST AID MEASURES

Eyes



Revision Date: 02/21/2007

Print Date: 3/9/2007 MSDS Number: R0253115

Version: 1.2

## PYROIL® NON-CHLORINATED BRAKE PARTS CLEANER PY4003

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. Wash exposed area with soap and water. If 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 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, 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.

### Notes to physician

Hazards: This product contains methanol which can cause intoxication and central nervous system depression. Methanol is metabolized to formic acid and formaldehyde. These metabolites can cause metabolic acidosis, visual disturbances and blindness. Since metabolism is required for these toxic symptoms, their onset may be delayed from 6 to 30 hours following ingestion. Ethanol competes for the same metabolic pathway and has been used to prevent methanol metabolism. Ethanol administration is indicated in symptomatic patients or at blood methanol concentrations above 20 ug/dl. Methanol is effectively removed by hemodialysis. 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 (CO2), dry chemical

#### Hazardous combustion products

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

#### Precautions for fire-fighting



Revision Date: 02/21/2007

Print Date: 3/9/2007 MSDS Number: R0253115

Version: 1.2

## PYROIL® NON-CHLORINATED BRAKE PARTS CLEANER PY4003

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. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

### 6. ACCIDENTAL RELEASE MEASURES

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. Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77.

#### Storage

No data

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION



Revision Date: 02/21/2007

Print Date: 3/9/2007 MSDS Number: R0253115

Version: 1.2

# PYROIL® NON-CHLORINATED BRAKE PARTS CLEANER PY4003

### **Exposure Guidelines**

TOLUENE	108-88-3	
ACGIH NIC	time weighted average	20 ppm
ACGIH	time weighted average	50 ppm
NIOSH	Recommended exposure limit	100 ppm
	(REL):	
NIOSH	Recommended exposure limit	375 mg/m3
	(REL):	
NIOSH	Short term exposure limit	150 ppm
NIOSH	Short term exposure limit	560 mg/m3
OSHA Z2	time weighted average	200 ppm
OSHA Z2	Ceiling Limit Value:	300 ppm
OSHA Z2	Maximum concentration:	500 ppm
METHANOL 67-56-1		
ACGIH	time weighted average	200 ppm
ACGIH	Short term exposure limit	250 ppm
NIOSH	Recommended exposure limit	200 ppm
	(REL):	
NIOSH	Recommended exposure limit	260 mg/m3
	(REL):	
NIOSH	Short term exposure limit	250 ppm
NIOSH	Short term exposure limit	325 mg/m3
OSHA Z1	Permissible exposure limit	200 ppm
OSHA Z1	Permissible exposure limit	260 mg/m3
CARBON DIOXII		-38-9
ACGIH	time weighted average	5,000 ppm
ACGIH	Short term exposure limit	30,000 ppm
NIOSH	Recommended exposure limit	5,000 ppm
	(REL):	
NIOSH	Recommended exposure limit (REL):	9,000 mg/m3
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
	~	

### 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).



Revision Date: 02/21/2007

Print Date: 3/9/2007 MSDS Number: R0253115

Version: 1.2

## PYROIL® NON-CHLORINATED BRAKE PARTS CLEANER PY4003

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

Other protective equipment: not required under normal conditions of use. Wear resistant gloves such as:

Neoprene

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 (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

Physical state	aerosol
Form	No data
Colour	No data
Odour	No data
Boiling point/range	No data
pH	No data
Flash point	No data
Evaporation rate	No data
Explosion limits	No data
Vapour pressure	No data
Vapour density	No data
Density	0.8057 g/cm3 @ 60.01 °F / 15.56 °C
v	No data
Solubility	No data
Partition coefficient (n-	No data
octanol/water) Autoignition temperature	No data

### 10. STABILITY AND REACTIVITY



Revision Date: 02/21/2007

Print Date: 3/9/2007 MSDS Number: R0253115

Version: 1.2

## PYROIL® NON-CHLORINATED **BRAKE PARTS CLEANER PY4003**

Stability

Stable.

Conditions to avoid

None known.

**Incompatible products** 

Avoid contact with:, strong oxidizing agents

Hazardous decomposition products

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

Hazardous reactions

Product will not undergo hazardous polymerization.

Thermal decomposition

No data

## 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

TOLUENE

LD 50 Rat: 5,000 mg/kg

METHANOL

LD 50 Rat: 5,045 mg/kg

SOLVENT NAPHTHA (PETROLEUM), LD 50 Rat: 8,000 mg/kg

LIGHT ALIPHATIC

Acute inhalation toxicity

TOLUENE

LC 50 Rat: 8000 ppm, 4 h

**METHANOL** 

LC 50 Rat: 64000 ppm, 4 h

SOLVENT NAPHTHA (PETROLEUM), LC 50 Rat: 3400 ppm, 4 h

LIGHT ALIPHATIC

Acute dermal toxicity

TOLUENE

LD 50 Rabbit: 12,124 mg/kg



Revision Date: 02/21/2007

Print Date: 3/9/2007 MSDS Number: R0253115

Version: 1.2

## PYROIL® NON-CHLORINATED **BRAKE PARTS CLEANER PY4003**

METHANOL

LD 50 Rabbit: 12,800 mg/kg

SOLVENT NAPHTHA (PETROLEUM), LD 50 Rat: 4,000 mg/kg

LIGHT ALIPHATIC

### 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.

### 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:** 

UN1950, Aerosols 2.1,

IMDG INWTR:



Revision Date: 02/21/2007

Print Date: 3/9/2007 MSDS Number: R0253115

Version: 1.2

## PYROIL® NON-CHLORINATED **BRAKE PARTS CLEANER PY4003**

UN1950, AEROSOLS 2.1, IMDG ROAD: UN1950, AEROSOLS 2.1, IMDG RAIL: UN1950, AEROSOLS 2.1,

Dangerous goods descriptions may not reflect package size, quantity, end-use or regionspecific exceptions that can be applied to shipments. Consult shipping documents for material-specific descriptions.

### 15. REGULATORY INFORMATION

#### California Prop. 65

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

**BENZENE** 

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

**TOLUENE** BENZENE

Acute Health Hazard **SARA Hazard Classification** 

SARA 313 Component(s)

**TOLUENE** 108-88-3 **METHANOL** 

50.019%

67-56-1 28%

Moderate skin irritant **OSHA Hazards** 

Severe eye irritant

Other Reactivity **Flammability** Health No data

**HMIS** No data NFPA

## 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.



Revision Date: 02/21/2007

Print Date: 3/9/2007 MSDS Number: R0253115

Version: 1.2

## PYROIL® NON-CHLORINATED BRAKE PARTS CLEANER PY4003

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