

PYROIL® POWER STEERING
FLUID
PYPSF32

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| 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING |
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|--------------------|-------------------------------|-----------------------------------|
| 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) |

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|-------------------------|------------------------------|
| Product name | PYROIL® POWER STEERING FLUID |
| Product code | PYPSF32 |
| Product Use Description | No data |

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| 2. HAZARDS IDENTIFICATION |
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Emergency Overview

Appearance: liquid, amber

CAUTION! PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION.

Potential Health Effects

Exposure routes

Inhalation, Skin Absorption, Skin contact, Eye Contact, Ingestion

Eye contact

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

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.

Inhalation

It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing small amounts of this

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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

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), Abdominal pain

Target Organs

No data

Carcinogenicity

This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA). Used motor oil has been shown to cause skin cancer in laboratory animals continually exposed by repeated applications. Avoid prolonged or repeated skin contact.

Reproductive hazard

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

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| 3. COMPOSITION/INFORMATION ON INGREDIENTS |
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| Components | CAS-No. | Concentration |
|-----------------------|--------------------|---------------|
| PETROLEUM DISTILLATES | NJTS# 800986-5245P | >=90-<=100% |

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| 4. FIRST AID MEASURES |
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Eyes

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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

First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.

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, 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: Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of small quantities of mineral oil can produce chronic inflammation of the lungs (i.e. lipoid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

Treatment: No information available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO₂), Dry chemical, Foam

Hazardous combustion products

carbon dioxide and carbon monoxide, oxides of sulfur, nitrogen and phosphorus, Hydrocarbons

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Precautions for fire-fighting

Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. During a fire, irritating or toxic decomposition products may be generated. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). DO NOT direct a solid stream of water or foam into hot, burning pools of liquid since this may cause frothing and increase fire intensity. Frothing can be violent and possibly endanger any firefighter standing too close to the burning liquid.

Flammability Class for Flammable Liquids

Combustible Liquid Class IIIB

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| 6. ACCIDENTAL RELEASE MEASURES |
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Personal precautions

No data

Environmental precautions

No data

Methods for cleaning up

Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.

Other information

Notify the proper authorities as required that a spill has occurred. Comply with all applicable federal, state, and local regulations.

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| 7. HANDLING AND STORAGE |
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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

Keep containers closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

PETROLEUM DISTILLATES

NJTS# **800986-5245P**

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|-----------|-----------------------------------|-------------|---------------------|
| OSHA Z1 | Permissible exposure limit | 500 ppm | |
| OSHA Z1 | Permissible exposure limit | 2,000 mg/m3 | |
| OSHA Z1A | time weighted average | 400 ppm | |
| OSHA Z1A | time weighted average | 1,600 mg/m3 | |
| US CA OEL | Time Weighted Average (TWA) | 400 ppm | |
| | Permissible Exposure Limit (PEL): | | |
| US CA OEL | Time Weighted Average (TWA) | 1,600 mg/m3 | |
| | Permissible Exposure Limit (PEL): | | |
| ACGIH | time weighted average | 5 mg/m3 | Mist. |
| ACGIH | Short term exposure limit | 10 mg/m3 | Mist. |
| ACGIH NIC | time weighted average | 0.2 mg/m3 | Inhalable fraction. |

AROMATIC HYDROCARBON

AROMATIC HYDROCARBON

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|-----------|-----------------------------------|-------------|---------------------|
| OSHA Z1 | Permissible exposure limit | 500 ppm | |
| OSHA Z1 | Permissible exposure limit | 2,000 mg/m3 | |
| OSHA Z1A | time weighted average | 400 ppm | |
| OSHA Z1A | time weighted average | 1,600 mg/m3 | |
| US CA OEL | Time Weighted Average (TWA) | 400 ppm | |
| | Permissible Exposure Limit (PEL): | | |
| US CA OEL | Time Weighted Average (TWA) | 1,600 mg/m3 | |
| | Permissible Exposure Limit (PEL): | | |
| ACGIH | time weighted average | 5 mg/m3 | Mist. |
| ACGIH | Short term exposure limit | 10 mg/m3 | Mist. |
| ACGIH NIC | time weighted average | 0.2 mg/m3 | Inhalable fraction. |

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

General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general

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and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Eye protection

Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

Skin and body protection

Not normally required. However, wear resistant gloves such as nitrile rubber to prevent irritation which may result from prolonged or repeated skin contact with product. Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use.

Respiratory protection

Respiratory protection is not required under normal conditions of use.

9. PHYSICAL AND CHEMICAL PROPERTIES

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| Physical state | liquid |
| Form | No data |
| Colour | amber |
| Odour | No data |
| Boiling point/boiling range | 218.33 °C / 424.99 °F@ 1,013.33 hPa |
| pH | No data |
| Flash point | 347.00 °F / 175.00 °C, Open Cup |
| Evaporation rate | > 1 (Ethyl Ether) |
| Explosion limits | No data |
| Vapour pressure | 0.00 hPa |
| Vapour density | No data |
| Density | 0.87 g/cm ³ 7.2200 lb/gal @ 60.00 °F / 15.56 °C |
| Solubility | No data |
| Partition coefficient: n-octanol/water | No data |
| log Pow | no data available |

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Autoignition temperature No data

10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

Heat, flames and sparks.

Incompatible products

Strong oxidizing agents

Hazardous decomposition products

carbon dioxide and carbon monoxide, oxides of sulfur, nitrogen and phosphorus,
Hydrocarbons

Hazardous reactions

Product will not undergo hazardous polymerization.

Thermal decomposition

No data

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

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|-----------------------|--------------------------|
| PETROLEUM DISTILLATES | LD 50 Rat: > 5,000 mg/kg |
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Acute inhalation toxicity

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|-----------------------|-------------------|
| PETROLEUM DISTILLATES | no data available |
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Acute dermal toxicity

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|-----------------------|-----------------------------|
| PETROLEUM DISTILLATES | LD 50 Rabbit: > 5,000 mg/kg |
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12. ECOLOGICAL INFORMATION

Aquatic toxicity

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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

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

Dangerous goods descriptions (if indicated above) may not reflect 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

Proposition 65 warnings are not required for this product based on the results of a risk assessment.

SARA Hazard Classification Acute Health Hazard

New Jersey RTK Label Information

PETROLEUM DISTILLATES
AROMATIC HYDROCARBON

NJTS 800986-5245P

Pennsylvania RTK Label Information

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NJTS 800986-5245P

Reportable quantity - Components

PETROLEUM DISTILLATES NJTS# 800986-5245P none

| | Health | Flammability | Reactivity | Other |
|------|--------|--------------|------------|-------|
| HMIS | 1 | 1 | 0 | |
| NFPA | 1 | 1 | 0 | |

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| 16. OTHER INFORMATION |
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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).