

SAFETY DATA SHEET

Revision Date: 02/16/2012

Print Date: 9/27/2012

MSDS Number: R0197992

Version: 2.0

Pyroil™ DOT 3 BRAKE FLUID
PYBF32

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE 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) |

Product name Pyroil™ DOT 3 BRAKE FLUID

Product code PYBF32

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid, clear

WARNING! MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. HARMFUL IF SWALLOWED. MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN AND RESPIRATORY TRACT IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE DERMATITIS AND BURNS.

Potential Health Effects

Exposure routes

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

Eye contact

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

Skin contact

Can cause skin irritation. Symptoms may include redness and burning of skin, and other skin damage. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, skin burns, and other skin damage. Skin absorption of this material (or a component) may be increased through injured skin.

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Ingestion

Swallowing this material may be harmful. Ingestion of medications contaminated with diethylene glycol has caused kidney failure and death in humans. Products containing diethylene glycol should be considered toxic by ingestion.

Inhalation

Breathing of vapor or mist is possible. 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, Kidney, Central nervous system, immune system

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), pain in the abdomen and lower back, Blurred vision, Lack of coordination, confusion, Difficulty in breathing, narcosis (dazed or sluggish feeling), lung edema (fluid buildup in the lung tissue), acute kidney failure (sudden slowing or stopping of urine production)

Target Organs

Diethylene glycol monobutyl ether has been found to cause breakage of red blood cells following ingestion in rats. Injury to other organs including liver and kidneys was considered secondary to the effect on the blood. This material (or a component) has been shown to lower activity of certain immune system cells in experimental animals. The significance of this effect with respect to human health is uncertain. Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: male reproductive effects, kidney damage, liver damage, central nervous system damage. Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans: liver damage, kidney damage

Carcinogenicity

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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).

Reproductive hazard

This material (or a component) has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain., Diethylene glycol monobutyl ether did not cause harm to the fetus when given orally or when applied to the skin in laboratory animal studies.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous Components | CAS-No. / Trade Secret No. | Concentration |
|--------------------------------------|----------------------------|---------------|
| POLYETHYLENE GLYCOL MONOMETHYL ETHER | 9004-74-4 | >=50-<60% |
| TRIETHYLENE GLYCOL MONOETHYL ETHER | 112-50-5 | >=40-<50% |
| TRIETHYLENE GLYCOL MONOMETHYL ETHER | 112-35-6 | >=30-<40% |
| TRIETHYLENE GLYCOL MONOBUTYL ETHER | 143-22-6 | >=20-<30% |
| TETRAETHYLENE GLYCOL | 112-60-7 | >=20-<30% |
| DIETHYLENE GLYCOL | 111-46-6 | >=10-<15% |
| PENTAETHYLENE GLYCOL | 4792-15-8 | >=10-<15% |
| POLYETHYLENE GLYCOL | 25322-68-3 | >=5-<10% |
| TRISODIUM PHOSPHATE | 7601-54-9 | >=5-<10% |
| DIETHYLENE GLYCOL MONOBUTYL ETHER | 112-34-5 | >=5-<10% |
| DIISOPROPANOLAMINE | 110-97-4 | >=1.5-<5% |

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

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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 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: Ingestion or other significant exposure to this material (or a component) may cause metabolic acidosis. Diglycol ethers may cause acidosis. Excessive levels of phosphorus can cause low blood calcium, with tetany and convulsions.

Treatment: Fomepizole (4-methylpyrazole) is an effective antagonist of alcohol dehydrogenase, and as such, may be used as an antidote in the treatment of ethylene glycol, diethylene glycol and methanol poisoning.

5. FIREFIGHTING MEASURES

Suitable extinguishing media

Dry chemical, Carbon dioxide (CO₂), Water spray

Hazardous combustion products

Alcohols, carbon dioxide and carbon monoxide, ethers, Hydrocarbons, Ketones, nitrogen oxides (NO_x), Oxides of phosphorus, Sodium oxides, various hydrocarbons

Precautions for fire-fighting

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). 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. Use water spray to cool fire exposed containers

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and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

NFPA Flammable and Combustible Liquids Classification Combustible Liquid Class IIIB

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental precautions

Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

Methods for cleaning up

Keep in suitable, closed containers for disposal. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Other information

Comply with all applicable federal, state, and local regulations.

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

Store in a cool, dry, ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

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| | | | |
|--|---------------------------|-------------------|------------------------------|
| TETRAETHYLENE GLYCOL | | 112-60-7 | |
| WEEL | time weighted average | 10 mg/m3 | Particulate. |
| DIETHYLENE GLYCOL | | 111-46-6 | |
| WEEL | time weighted average | 10 mg/m3 | |
| PENTAETHYLENE GLYCOL | | 4792-15-8 | |
| WEEL | time weighted average | 10 mg/m3 | Particulate. |
| POLYETHYLENE GLYCOL | | 25322-68-3 | |
| WEEL | time weighted average | 10 mg/m3 | Particulate. |
| TRISODIUM PHOSPHATE | | 7601-54-9 | |
| WEEL | Short term exposure limit | 5 mg/m3 | |
| DIETHYLENE GLYCOL MONOBUTYL ETHER | | 112-34-5 | |
| ACGIH NIC | time weighted average | 7 ppm | Inhalable fraction and vapor |
| DIISOPROPANOLAMINE | | 110-97-4 | |
| | time weighted average | 10 ppm | |

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 exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Eye protection

Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Skin and body protection

Wear resistant gloves such as:
polyvinyl chloride

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.

Discard gloves that show tears, pinholes, or signs of wear.

Respiratory protection

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A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| Physical state | liquid |
| Colour | clear, yellow |
| Odour | mild |
| Boiling point/boiling range | 401 °F / 205 °C @ 760.00 mmHg |
| Melting point/range | -58 °F / -50 °C |
| pH | (+/- 1.8) 9.3 |
| Flash point | 275 °F / 135 °C Tag closed cup |
| Evaporation rate | (<)0.01 n-Butyl Acetate |
| Lower explosion limit/Upper explosion limit | 0.9 %(V) / 36 %(V) |
| Vapour pressure | 169.316 hPa @ 77 °F / 25 °C Calculated Vapor Pressure |
| Relative vapour density | 6 AIR=1 |
| Density | (Average) 1.035 g/cm3 @ 39 °F / 4 °C |
| | 8.67 lb/gal |
| Water solubility | soluble |

10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

Do not allow evaporation to dryness., excessive heat, Exposure to moisture.

Incompatible products

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Avoid contact with: Acids, Amines, Ammonia, Bases, Copper, halogenated hydrocarbons, magnesium, nitrites, Reducing agents, Strong oxidizing agents, This product should not be used in conjunction with trimethylol propane or trimethylol propane-derived products. There is a possibility that bicyclic phosphates or phosphites can be produced as a result of the thermal decomposition of this product in combination with trimethylol propane, trimethylol propane-derived products or their corresponding trimethylol propane alkane homologs. Bicyclic phosphates and phosphites are a class of materials with acute neurotoxic properties which produce characteristic convulsive seizures in test animals.

Hazardous decomposition products

Alcohols, Aldehydes, carbon dioxide and carbon monoxide, Chlorine, ethers, Hydrocarbons, nitrogen oxides (NOx), Organic acids, Oxides of phosphorus, Sodium oxides, ketones, various hydrocarbons

Hazardous reactions

Product will not undergo hazardous polymerization.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

Acute oral toxicity - : no data available
Product

Acute oral toxicity - Components

| | |
|---|--|
| TRIETHYLENE GLYCOL MONOETHYL ETHER | : LD 50: 7,750 mg/kg Species: Rat |
| TRIETHYLENE GLYCOL MONOMETHYL ETHER | : LD 50: 11,300 mg/kg Species: Rat |
| TRIETHYLENE GLYCOL MONOBUTYL ETHER | : LD 50: 5,300 mg/kg Species: Rat |
| TETRAETHYLENE GLYCOL | : LD 50: ca. 30,000 mg/kg Species: Rat |
| DIETHYLENE GLYCOL | : LD 50: 12,565 mg/kg Species: Rat |

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| | |
|--------------------------------------|---|
| PENTAETHYLENE GLYCOL | : LD 50: 22,500 mg/kg Species: Guinea pig |
| POLYETHYLENE GLYCOL | : LD 50: > 20 g/kg Species: Rat |
| TRISODIUM PHOSPHATE | : LD 50: 7,400 mg/kg Species: Rat |
| DIETHYLENE GLYCOL MONOBUTYL ETHER | : LD 50: 6,560 mg/kg Species: Rat |
| DIISOPROPANOLAMIN E | : LD 50: 2,000 mg/kg Species: Rat |

Acute inhalation toxicity

Acute inhalation toxicity -
Product : no data available

Acute inhalation toxicity - Components

DIETHYLENE GLYCOL : LC Lo: 130 mg/m3 Exposure time: 2 h Species: Mouse

Acute dermal toxicity

Acute dermal toxicity -
Product : no data available

Acute dermal toxicity - Components

| | |
|--|--|
| TRIETHYLENE GLYCOL MONOETHYL ETHER | : LD 50: 8,200 mg/kg Species: Rabbit |
| TRIETHYLENE GLYCOL MONOBUTYL ETHER | : LD 50: 3,502 mg/kg Species: Rabbit |
| TETRAETHYLENE GLYCOL | : LD 50: 22,460 mg/kg Species: Rabbit |
| DIETHYLENE GLYCOL | : LD 50: 11,890 mg/kg Species: Rabbit |
| POLYETHYLENE GLYCOL | : LD 50: > 20 g/kg Species: Rabbit |
| TRISODIUM PHOSPHATE | : LD 50: > 7,940 mg/kg Species: Rabbit |

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DIETHYLENE GLYCOL : LD 50: 2,700 mg/kg Species: Rabbit
MONOBUTYL ETHER

DIISOPROPANOLAMIN : LD 50: 8,000 mg/kg Species: Rabbit
E

Acute toxicity (other routes of administration)

Acute toxicity (other routes of administration) : no data available

12. ECOLOGICAL INFORMATION

Biodegradability

Biodegradability - Product : no data available

Biodegradability - Components

TETRAETHYLENE : 40 % Method: OECD Test Guideline 301D
GLYCOL

DIETHYLENE GLYCOL : 92 %

Bioaccumulation

Bioaccumulation - Product : no data available

Ecotoxicity effects

Toxicity to fish

Toxicity to fish - Product : no data available

Toxicity to fish - Components

TETRAETHYLENE : LC 50: > 1,000 mg/l
GLYCOL Exposure time: 96 h
Species: Pimephales promelas (fathead minnow)

DIETHYLENE GLYCOL : LC 50: > 32,000 mg/l
Exposure time: 96 h
Species: Western mosquitofish (Gambusia affinis)
Method: Static.

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Remarks: Mortality

POLYETHYLENE GLYCOL : LC 50: > 20,000 mg/l
Exposure time: 96 h
Species: Rainbow trout, donaldson trout (Oncorhynchus mykiss)
Test Type: static test

TRISODIUM PHOSPHATE : LC 50: 220 mg/l
Exposure time: 96 h
Species: Pimephales promelas (fathead minnow)
LC 50: 120 mg/l
Exposure time: 96 h
Species: Oncorhynchus mykiss (rainbow trout)

DIETHYLENE GLYCOL MONOBUTYL ETHER : LC 50: 1,300 mg/l
Exposure time: 96 h
Species: Bluegill (Lepomis macrochirus)
Method: Static
Remarks: Mortality

DIISOPROPANOLAMINE : LC 50: 1,100 mg/l
Exposure time: 24 h
Species: Carassius auratus (goldfish)
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates.

Toxicity to daphnia and other aquatic invertebrates. : no data available
- Product

Toxicity to daphnia and other aquatic invertebrates. - Components

TETRAETHYLENE GLYCOL : LC 50: 7,746 mg/l
Exposure time: 48 h
Species: Water flea (Daphnia magna)

DIETHYLENE GLYCOL : LC 50: > 10,000 mg/l
Exposure time: 24 h

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| |
|---|
| Species: Water flea (Daphnia magna) Method: Static Remarks: Mortality |
|---|

| |
|---|
| DIETHYLENE GLYCOL : LC 50: 2,850 mg/l MONOBUTYL ETHER : Exposure time: 24 h Species: Water flea (Daphnia magna) Method: Static Remarks: Mortality |
|---|

Toxicity to algae

| |
|---|
| Toxicity to algae - Product : no data available |
|---|

Toxicity to algae - Components

| |
|---|
| TETRAETHYLENE : IC50: > 1,000 mg/l GLYCOL : Species: Pseudokirchneriella subcapitata (green algae) |
|---|

Toxicity to bacteria

| |
|--|
| Toxicity to bacteria - Product : no data available |
|--|

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Dispose of in accordance with all applicable local, state and federal regulations.

14. TRANSPORT INFORMATION

REGULATION

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| ID NUMBER | PROPER SHIPPING NAME | *HAZARD CLASS | SUBSIDIARY HAZARDS | PACKING GROUP | MARINE POLLUTANT / LTD. QTY. |
|-----------|----------------------|---------------|--------------------|---------------|------------------------------|
|-----------|----------------------|---------------|--------------------|---------------|------------------------------|

U.S. DOT - ROAD

Not dangerous goods

U.S. DOT - RAIL

Not dangerous goods

U.S. DOT - INLAND WATERWAYS

Not dangerous goods

TRANSPORT CANADA - ROAD

Not dangerous goods

TRANSPORT CANADA - RAIL

Not dangerous goods

TRANSPORT CANADA - INLAND WATERWAYS

Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

Not dangerous goods

***ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

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.

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15. REGULATORY INFORMATION

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SARA Hazard Classification

SARA 311/312 Classification

Acute Health Hazard

SARA 313 Component(s)

| | |
|-------------------------------------|---------|
| TRIETHYLENE GLYCOL MONOETHYL ETHER | 40.00 % |
| TRIETHYLENE GLYCOL MONOMETHYL ETHER | 30.00 % |
| TRIETHYLENE GLYCOL MONOBUTYL ETHER | 25.00 % |
| DIETHYLENE GLYCOL MONOBUTYL ETHER | 5.00 % |

New Jersey RTK Label Information

| | |
|--------------------------------------|-----------|
| POLYETHYLENE GLYCOL MONOMETHYL ETHER | 9004-74-4 |
| TRIETHYLENE GLYCOL MONOETHYL ETHER | 112-50-5 |
| TRIETHYLENE GLYCOL MONOMETHYL ETHER | 112-35-6 |
| TRIETHYLENE GLYCOL MONOBUTYL ETHER | 143-22-6 |
| TETRAETHYLENE GLYCOL | 112-60-7 |
| POLYOXYETHYLENE MONOBUTYL ETHER | 9004-77-7 |
| TRISODIUM PHOSPHATE | 7601-54-9 |
| DIETHYLENE GLYCOL MONOBUTYL ETHER | 112-34-5 |

Pennsylvania RTK Label Information

| | |
|-------------------------------------|------------|
| DIISOPROPANOLAMINE | 110-97-4 |
| DIETHYLENE GLYCOL MONOBUTYL ETHER | 112-34-5 |
| TRISODIUM PHOSPHATE | 7601-54-9 |
| POLYETHYLENE GLYCOL | 25322-68-3 |
| PENTAETHYLENE GLYCOL | 4792-15-8 |
| DIETHYLENE GLYCOL | 111-46-6 |
| POLYOXYETHYLENE MONOBUTYL ETHER | 9004-77-7 |
| TETRAETHYLENE GLYCOL | 112-60-7 |
| TRIETHYLENE GLYCOL MONOBUTYL ETHER | 143-22-6 |
| TRIETHYLENE GLYCOL MONOMETHYL ETHER | 112-35-6 |

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| TRIETHYLENE GLYCOL MONOETHYL ETHER | 112-50-5 |
| POLYETHYLENE GLYCOL MONOMETHYL ETHER | 9004-74-4 |

Notification status

| | |
|--|----------------------|
| Japan. Kashin-Hou Law List | y (positive listing) |
| EU. EINECS | y (positive listing) |
| China. Inventory of Existing Chemical Substances | y (positive listing) |
| Australia. Industrial Chemical (Notification and Assessment) Act | y (positive listing) |
| US. Toxic Substances Control Act | y (positive listing) |
| Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133) | y (positive listing) |

Reportable quantity - Product

| | |
|--|------------|
| US. EPA CERCLA Hazardous Substances (40 CFR 302) | 100000 lbs |
|--|------------|

Reportable quantity-Components

| | | |
|---------------------|-----------|----------|
| TRISODIUM PHOSPHATE | 7601-54-9 | 5000 lbs |
|---------------------|-----------|----------|

| | HMIS | NFPA |
|------------------|------|------|
| Health | 2* | 2 |
| Flammability | 1 | 1 |
| Physical hazards | 0 | |
| Instability | | 0 |
| Specific Hazard | -- | -- |

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).