SAFETY DATA SHEET

Valvoline™ DOT 3 & 4 BRAKE FLUID
797751

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

<table>
<thead>
<tr>
<th>Ashland</th>
<th>Regulatory Information Number</th>
<th>1-800-325-3751</th>
</tr>
</thead>
<tbody>
<tr>
<td>P.O. Box 2219</td>
<td>Telephone</td>
<td>614-790-3333</td>
</tr>
<tr>
<td>Columbus, OH 43216</td>
<td>Emergency telephone number</td>
<td>1-800-ASHLAND (1-800-274-5263)</td>
</tr>
</tbody>
</table>

Product name: Valvoline™ DOT 3 & 4 BRAKE FLUID

Product code: 797751

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid, yellow

WARNING! MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. MAY BE 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. Skin absorption of this material (or a component) may be increased through injured skin. Although rare, skin contact with ethylene glycol may cause allergic skin reaction (delayed skin rash which may be followed by blistering, scaling and other skin effects).
Ingestion
Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. Liver, kidney and brain damage in humans has resulted from swallowing lethal or near-lethal amounts of ethylene glycol. 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
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 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: lung (for example, asthma-like conditions), skin, Liver, kidney, Central nervous system, Upper respiratory tract

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), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), pain in the abdomen and lower back, acute kidney failure (sudden slowing or stopping of urine production), lung edema (fluid buildup in the lung tissue)

Target Organs
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
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.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>CAS-No. / Trade Secret No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLYETHYLENE GLYCOL MONOMETHYL ETHER</td>
<td>9004-74-4</td>
<td>&gt;=20-&lt;30%</td>
</tr>
<tr>
<td>TRIETHYLENE GLYCOL MONOMETHYL ETHER</td>
<td>112-35-6</td>
<td>&gt;=20-&lt;30%</td>
</tr>
<tr>
<td>TRIETHYLENE GLYCOL MONOBUTYL ETHER</td>
<td>143-22-6</td>
<td>&gt;=15-&lt;20%</td>
</tr>
<tr>
<td>TETRAETHYLENE GLYCOL</td>
<td>112-60-7</td>
<td>&gt;=5-&lt;10%</td>
</tr>
<tr>
<td>DIETHYLENE GLYCOL</td>
<td>111-46-6</td>
<td>&gt;=1.5-&lt;5%</td>
</tr>
<tr>
<td>TRIETHYLENE GLYCOL</td>
<td>112-27-6</td>
<td>&gt;=1.5-&lt;5%</td>
</tr>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>1310-73-2</td>
<td>&gt;=1-&lt;1.5%</td>
</tr>
<tr>
<td>DIISOPROPANOLAMINE</td>
<td>110-97-4</td>
<td>&gt;=1-&lt;1.5%</td>
</tr>
</tbody>
</table>

### 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 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: Ingestion or other significant exposure to this material (or a component) may cause metabolic acidosis.
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), Alcohol-resistant foam, Water spray

Hazardous combustion products
Alcohols, Aldehydes, ethers, carbon dioxide and carbon monoxide, nitrogen oxides (NOx), toxic fumes, various hydrocarbons

Precautions for fire-fighting
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 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**

<table>
<thead>
<tr>
<th>SODIUM HYDROXIDE</th>
<th>1310-73-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH Ceiling Limit Value:</td>
<td>2 mg/m3</td>
</tr>
<tr>
<td>NIOSH Ceiling Limit Value and Time Period (if specified):</td>
<td>2 mg/m3</td>
</tr>
<tr>
<td>OSHA Z1 Permissible exposure limit</td>
<td>2 mg/m3</td>
</tr>
</tbody>
</table>

**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...
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical state</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>yellow</td>
</tr>
<tr>
<td>Odour</td>
<td>ammoniacal</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>(&gt;446 °F / 230 °C @ 760.00 mmHg</td>
</tr>
<tr>
<td>pH</td>
<td>(Average) 8.0 5% aqueous solution</td>
</tr>
<tr>
<td>Flash point</td>
<td>250 °F / 121 °C Closed Cup</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>(&lt;)0.167 hPa @ 68 °F / 20 °C</td>
</tr>
<tr>
<td>Relative vapour density</td>
<td>(&gt;10 AIR=1</td>
</tr>
</tbody>
</table>

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. Maintain eye wash station near work area.

Skin and body protection

Wear resistant gloves (consult your safety equipment supplier).
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

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.
SAFETY DATA SHEET

Valvoline™ DOT 3 & 4 BRAKE FLUID
797751

Revision Date: 03/08/2012
Print Date: 2/12/2015
MSDS Number: R0330094
Version: 1.11

Density | (Average) 1.055 g/cm3 @ 68 °F / 20 °C
Water solubility | soluble
Autoignition temperature | (>419 °F / 215 °C

10. STABILITY AND REACTIVITY

Stability
Stable.

Conditions to avoid
Avoid heat, open flame, and prolonged storage at elevated temperatures.

Incompatible products
Avoid contact with: acids, acid anhydrides, Alkaline earth metals, Alkali metals, aluminum, salts of strong bases, strong bases, strong oxidizing agents, Sulphur compounds

Hazardous decomposition products
acetaldehyde, Alcohols, Aldehydes, carbon dioxide and carbon monoxide, dioxolanes, ethers, formaldehyde-like, ketones, nitrogen oxides (NOx), Organic acids, various hydrocarbons

Hazardous reactions
Product will not undergo hazardous polymerization.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

<table>
<thead>
<tr>
<th>Acute oral toxicity -</th>
<th>no data available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product</td>
<td></td>
</tr>
</tbody>
</table>

Acute oral toxicity - Components

<table>
<thead>
<tr>
<th>Component</th>
<th>LD 50</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRIETHYLENE GLYCOL MONOMETHYL ETHER</td>
<td>11,300 mg/kg</td>
<td>Rat</td>
</tr>
<tr>
<td>TRIETHYLENE</td>
<td>5,300 mg/kg</td>
<td>Rat</td>
</tr>
</tbody>
</table>
### Acute inhalation toxicity

**Product**
- no data available

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

- **TRIETHYLENE GLYCOL**
  - LC 50: > 3.9 mg/l
  - Exposure time: 4 h
  - Species: Rat

### Acute dermal toxicity

**Product**
- no data available

**Components**
- **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

- **TRIETHYLENE GLYCOL**
  - LD 50: > 22.6 g/kg
  - Species: Rabbit

- **SODIUM HYDROXIDE**
  - LD 50: 1,350 mg/kg
  - Species: Rabbit

- **DIISOPROPANOLAMINE**
  - LD 50: 8,000 mg/kg
  - Species: Rabbit
12. ECOLOGICAL INFORMATION

Biodegradability

Biodegradability - Product : no data available

Biodegradability - Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Biodegradability (%)</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>TETRAETHYLENE GLYCOL</td>
<td>40 %</td>
<td>OECD Test Guideline 301D</td>
</tr>
</tbody>
</table>

DIETHYLENE GLYCOL : 92 %

Bioaccumulation

Bioaccumulation - Product : no data available

Bioaccumulation - Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Bioaccumulation parameters</th>
</tr>
</thead>
</table>
| TRIETHYLENE GLYCOL| Species: Sheepshead minnow (Cyprinodon variegatus)  
Exposure time: 28 d  
Concentration: 7.8 mg/l  
Bioconcentration factor (BCF): 1,700  
Method: Flow through |

Ecotoxicity effects

Toxicity to fish

Toxicity to fish - Product : no data available

Toxicity to fish - Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Toxicity parameters</th>
</tr>
</thead>
</table>
| TETRAETHYLENE GLYCOL | LC 50: > 1,000 mg/l  
Exposure time: 96 h  
Species: Pimephales promelas (fathead minnow) |
SAFETY DATA SHEET

Valvoline™ DOT 3 & 4 BRAKE FLUID
797751

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

TRIETHYLENE GLYCOL  :  LC 50: > 10,000 mg/l
          Exposure time: 96 h
          Species: Bluegill (Lepomis macrochirus)
          Method: Static
          Remarks: Mortality

SODIUM HYDROXIDE  :  LC 50: 125 mg/l
          Exposure time: 96 h
          Species: Western mosquitofish (Gambusia affinis)
          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
          Species: Water flea (Daphnia magna)
          Method: Static
SAFETY DATA SHEET

Valvoline™ DOT 3 & 4 BRAKE FLUID
797751

Remarks: Mortality

| TRIETHYLENE GLYCOL | EC 50: 46,500 mg/l  
|                    | Exposure time: 48 h  
|                    | Species: Water flea (Daphnia magna)  
|                    | Method: Static  
|                    | Remarks: Intoxication  

| SODIUM HYDROXIDE | EC 50: 34.59 - 47.13 mg/l  
|                  | Exposure time: 48 h  
|                  | Species: Water flea (Daphnia magna)  
|                  | Remarks: Intoxication  

Toxicity to algae

| Toxicity to algae - Product | no data available  

Toxicity to algae - Components

| TETRAETHYLENE GLYCOL | IC50: > 1,000 mg/l  
|                      | 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
SAFETY DATA SHEET

Valvoline™ DOT 3 & 4 BRAKE FLUID
797751

REGULATION

<table>
<thead>
<tr>
<th>ID NUMBER</th>
<th>PROPER SHIPPING NAME</th>
<th>*HAZARD CLASS</th>
<th>SUBSIDIARY HAZARDS</th>
<th>PACKING GROUP</th>
<th>MARINE POLLUTANT / LTD. QTY.</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. DOT - ROAD</td>
<td>Not dangerous goods</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U.S. DOT - RAIL</td>
<td>Not dangerous goods</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U.S. DOT - INLAND WATERWAYS</td>
<td>Not dangerous goods</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TRANSPORT CANADA - ROAD</td>
<td>Not dangerous goods</td>
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</tr>
<tr>
<td>TRANSPORT CANADA - RAIL</td>
<td>Not dangerous goods</td>
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</tr>
<tr>
<td>TRANSPORT CANADA - INLAND WATERWAYS</td>
<td>Not dangerous goods</td>
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<tr>
<td>INTERNATIONAL MARITIME DANGEROUS GOODS</td>
<td>Not dangerous goods</td>
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<tr>
<td>INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO</td>
<td>Not dangerous goods</td>
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<tr>
<td>INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER</td>
<td>Not dangerous goods</td>
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</tbody>
</table>

*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.
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)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRIETHYLENE GLYCOL MONOMETHYL ETHER</td>
<td>30.00%</td>
</tr>
<tr>
<td>TRIETHYLENE GLYCOL MONOBUTYL ETHER</td>
<td>18.00%</td>
</tr>
</tbody>
</table>

New Jersey RTK Label Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triethylene glycol monomethyl ether, borate</td>
<td>30989-05-0</td>
</tr>
<tr>
<td>POLYETHYLENE GLYCOL MONOMETHYL ETHER</td>
<td>9004-74-4</td>
</tr>
<tr>
<td>TRIETHYLENE GLYCOL MONOMETHYL ETHER</td>
<td>112-35-6</td>
</tr>
<tr>
<td>TRIETHYLENE GLYCOL MONOBUTYL ETHER</td>
<td>143-22-6</td>
</tr>
<tr>
<td>POLYOXYETHYLENE MONOBUTYL ETHER</td>
<td>9004-77-7</td>
</tr>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>1310-73-2</td>
</tr>
</tbody>
</table>

Pennsylvania RTK Label Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triethylene glycol monomethyl ether, borate</td>
<td>30989-05-0</td>
</tr>
<tr>
<td>POLYETHYLENE GLYCOL MONOMETHYL ETHER</td>
<td>9004-74-4</td>
</tr>
<tr>
<td>TRIETHYLENE GLYCOL MONOMETHYL ETHER</td>
<td>112-35-6</td>
</tr>
<tr>
<td>TRIETHYLENE GLYCOL MONOBUTYL ETHER</td>
<td>143-22-6</td>
</tr>
<tr>
<td>POLYOXYETHYLENE MONOBUTYL ETHER</td>
<td>9004-77-7</td>
</tr>
<tr>
<td>TETRAETHYLENE GLYCOL</td>
<td>112-60-7</td>
</tr>
<tr>
<td>DIETHYLENE GLYCOL</td>
<td>111-46-6</td>
</tr>
<tr>
<td>TRIETHYLENE GLYCOL</td>
<td>112-27-6</td>
</tr>
<tr>
<td>PENTAETHYLENE GLYCOL</td>
<td>4792-15-8</td>
</tr>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>1310-73-2</td>
</tr>
<tr>
<td>DIISOPROPANOLAMINE</td>
<td>110-97-4</td>
</tr>
</tbody>
</table>

Notification status
SAFETY DATA SHEET

Valvoline™ DOT 3 & 4 BRAKE FLUID
797751

EU. EINECS
US. Toxic Substances Control Act
Australia. Industrial Chemical (Notification and Assessment) Act
Japan. Kashin-Hou Law List
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act
China. Inventory of Existing Chemical Substances

y (positive listing)
y (positive listing)
n (Negative listing)
y (positive listing)
y (positive listing)
y (positive listing)
y (positive listing)
y (positive listing)

Reportable quantity - Product
US. EPA CERCLA Hazardous Substances (40 CFR 302) 66671 lbs

Reportable quantity-Components
SODIUM HYDROXIDE 1310-73-2 1000 lbs

<table>
<thead>
<tr>
<th></th>
<th>HMIS</th>
<th>NFPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Flammability</td>
<td>1</td>
<td>1</td>
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<tr>
<td>Physical hazards</td>
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</tr>
<tr>
<td>Instability</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Specific Hazard</td>
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</tr>
</tbody>
</table>

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).