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Print Date: 2/11/2010 MSDS Number: A-66

Version: 1.0

PLIOBOND® 25 ADHESIVE 167516

# 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

Emergency rerephone

(1-800-274-5263)

Product name

PLIOBOND® 25 ADHESIVE

Packaged & Marketed Nationally by THE RUSCOE COMPANY

Product code

167516

485 Kenmore Blvd. • Akron, Ohio 44301

Product Use Description

No data

330-253-8148 • Toll Free 800-293-8148

Fax 330-253-2933

# 2. HAZARDS IDENTIFICATION

### **Emergency Overview**

Appearance: liquid, tan

DANGER! POISON! EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. MAY BE HARMFUL. MAY CAUSE SEVERE BURNS OF RESPIRATORY AND DIGESTIVE TRACTS. MAY BE FATAL IF INHALED. MAY BE FATAL IF SWALLOWED. MAY BE FATAL IF ABSORBED THROUGH THE SKIN. PROLONGED OR REPEATED CONTACT MAY DRY THE SKIN AND CAUSE IRRITATION AND BURNS. CAUSES SEVERE BURNS OF THE EYES AND SKIN.

### Potential Health Effects

### Routes of exposure

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

### Eye contact

Can cause permanent eye injury. Symptoms include stinging, tearing, redness, and swelling of eyes. Can injure the cornea and cause blindness.

### Skin contact

Can cause permanent skin damage. Symptoms may include redness, burning, and swelling of skin, burns, and other skin damage. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, skin



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burns, and other skin damage. Passage of this material into the body through the skin is possible, and skin contact may be harmful or fatal.

### Ingestion

Swallowing this material may be harmful or fatal. Symptoms may include severe stomach and intestinal irritation (nausea, vomiting, diarrhea), abdominal pain, and vomiting of blood. Swallowing this material may cause burns and destroy tissue in the mouth, throat, and digestive tract. Low blood pressure and shock may occur as a result of severe tissue injury. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

#### Inhalation

Breathing this material may be harmful or fatal. Symptoms may include severe irritation and burns to the nose, throat, and respiratory tract. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

### Aggravated Medical Condition

Exposure to this material may aggravate any preexisting condition sensitive to a decrease in available oxygen, such as chronic lung disease, coronary artery disease or anemias. Individuals with preexisting heart disorders maybe more susceptible to arrhythmias (irregular heartbeats) if exposed to high concentrations of this material., Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material:, Skin, lung (for example, asthma-like conditions), bloodforming system, Central nervous system, Gastrointestinal tract, Liver, kidney, Heart

### **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), thirst, irritation (nose, throat, airways), Lung irritation, Cough, Difficulty in breathing, central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects, sleep disturbances, Convulsions, Lowered blood pressure, Weakness, low body temperature, Abdominal pain, effects on heart rate, respiratory depression (slowing of the breathing rate), irregular heartbeat, cyanosis (causes blue coloring of the skin and nails from lack of oxygen), high blood sugar, allergic reaction (causes narrowing of the air passages of the lungs, sweating, flushing, hives, rapid heart rate, and lowered blood pressure), lung edema (fluid buildup in the lung tissue), pneumonia, shock, respiratory failure, coma

### **Target Organs**



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Based on animal studies, exposure to methyl ethyl ketone (MEK) increases the onset of peripheral neuropathy caused by exposure to methyl butyl ketone (MBK), and/or n-hexane, and/or ethyl butylketone. MEK alone has not been shown to cause peripheral neuropathy., Chronic phenol poisoning is characterized by digestive disorders such as anorexia and weight loss, and by nervous disorders, with headache, fainting, vertigo, and mental disturbances., This material (or a component) shortens the time of onset or worsens the liver and kidney damage induced by other chemicals., Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals:, nervous system effects, mild, reversible liver effects, mild, reversible kidney effects, blood abnormalities, liver abnormalities, kidney damage, liver damage, lung damage, heart damage, Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans:, central nervous system effects, effects on lung function

### Carcinogenicity

Human studies have associated nasopharyngeal cancers (area of the upper throat behind the nose) and possibly other respiratory cancers (nasal cavity and sinuses) with formaldehyde exposure in the workplace. Although the evidence is not conclusive, some studies suggest an association between workplace formaldehyde exposure and leukemia. In studies in rats, inhalation of formaldehyde has caused nasal tumors, while ingestion in drinking water has caused leukemia and gastrointestinal tract tumors. Formaldehyde is listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) and the Occupational Safety and Health Administration (OSHA).

### Reproductive hazard

This material (or a component) may be harmful to the human fetus based on positive test results with laboratory animals.

#### Other information

This material can form dust which may cause skin or mucous membrane irritation. Symptoms may include redness, burning, and swelling. Although they may cause respiratory tract irritation, nuisance dusts do not form scar tissue or affect the structure of air spaces in the lungs. Their effects on the tissues are potentially reversible. Formaldehyde has been positive in tests which measure permanent changes to the DNA in germ cells of mammals. Changes in these cells can be passed on to future generations. The relevance of this finding to human health is uncertain.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS



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| Components          | CAS-No.  | Concentration |
|---------------------|----------|---------------|
| ACETONE             | 67-64-1  | >=70-<80%     |
| METHYL ETHYL KETONE | 78-93-3  | >=5-<10%      |
| CALCIUM CARBONATE   | 471-34-1 | >=1.5-<5%     |
| PHENOL.             | 108-95-2 | >=1-<1.5%     |
| ORTHO CRESOL        | 95-48-7  | >=0.1-<0.5%   |
| FORMALDEHYDE        | 50-00-0  | >=0.1-<0.5%   |

### 4. FIRST AID MEASURES

### Eyes

If material gets into the eyes, immediately flush eyes gently with water for at least 15 minutes while holding eyelids apart. If symptoms develop as a result of vapor exposure, immediately move individual away from exposure and into fresh air before flushing as recommended above. Seek immediate medical attention.

#### Skin

Immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Seek immediate medical attention. Wash clothing before reuse and discard contaminated shoes.

### Ingestion

Do not induce vomiting. Concentrations greater than 1.5% produce irritation and greater than 5% are corrosive; vomiting can cause further damage to the mouth and throat. Do not dilute the swallowed material, since this may enhance its absorption. Seek immediate medical attention. If possible, do not leave the individual unattended. Vomiting and diarrhea may occur spontaneously.

### 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 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. This material (or a component) has produced hyperglycemia and ketosis following substantial ingestion. Ingestion of large amounts or other significant exposure to this material (or a component) may cause alkalosis.



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Excessive calcium intake may cause gastrointestinal symptoms, hypertension, hypercalcemia, kidney stones, and may inhibit absorption of iron, zinc, and possibly other trace elements. 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. Pulmonary edema may be delayed. Formaldehyde ingestion can cause a reduction in body temperature, jaundice, acidosis, and hematuria; and may also cause albuminuria and anuria. Metabolic acidosis and hyperlactatemia may occur as a result of acute inhalation exposure.

**Treatment**: Phenol adsorbs to activated charcoal, and it maybe preferable to ipecac-induced emesis because seizures or coma may onset rapidly and because of the corrosive effects of phenol. A usual activated charcoal dose in adults is 30-100 g and in children is 15-30 g. Activated charcoal should be administered with, or followed by, a cathartic. If endoscopy is planned, charcoal may obscure visualization of affected areas. Gastric lavage may be indicated if it is performed soon after ingestion or in patients who are comatose or at risk of seizures. Monitor for seizures, metabolic acidosis and ventricular dysrhythmias.

### 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, Dry chemical, Carbon dioxide (CO2)

### Hazardous combustion products

carbon dioxide and carbon monoxide, calcium oxide, acid vapors, toxic fumes, Aldehydes, formic acid, Methanol

### 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). Water may be ineffective for extinguishment unless used under favorable conditions by experienced fire fighters. 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 liquid with water used for cooling purposes.



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### 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. Local authorities should be advised if significant spillages cannot be contained.

# Methods for cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### Other information

Comply with all applicable federal, state, and local regulations. Suppress (knock down) gases/vapours/mists with a water spray jet.

### 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

Store in a cool, dry, ventilated area, away from incompatible substances.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines** 

ACETONE

67-64-1

ACGIH

time weighted average

500 ppm



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| ACGIH   | Short term exposure limit         | 750 ppm     |
|---------|-----------------------------------|-------------|
| NIOSH   | Recommended exposure limit (REL): | 250 ppm     |
| NIOSH   | Recommended exposure limit (REL): | 590 mg/m3   |
| OSHA ZI | Permissible exposure limit        | 1,000 ppm   |
| OSHA ZI | Permissible exposure limit        | 2.400 mg/m3 |

### METHYL ETHYL KETONE 78-93-3

| TANKE I KE K IT. IT. K K K K K | 10-33                             | -J        |
|--------------------------------|-----------------------------------|-----------|
| ACGIH                          | time weighted average             | 200 ppm   |
| ACGIH                          | Short term exposure limit         | 300 ppm   |
| NIOSH                          | Recommended exposure limit (REL): | 200 ppm   |
| NIOSH                          | Recommended exposure limit (REL): | 590 mg/m3 |
| NIOSH                          | Short term exposure limit         | 300 ppm   |
| NIOSH                          | Short term exposure limit         | 885 mg/m3 |
| OSHA ZI                        | Permissible exposure limit        | 200 ppm   |
| OSHA ZI                        | Permissible exposure limit        | 590 mg/m3 |
|                                |                                   |           |

# CALCIUM CARBONATE 471-34-1

| US CA OEL | Time Weighted Average (TWA)       | 5 mg/m3  | Respirable fraction. |
|-----------|-----------------------------------|----------|----------------------|
|           | Permissible Exposure Limit (PEL): |          | •                    |
| US CA OEL | Time Weighted Average (TWA)       | 10 mg/m3 | Total dust.          |
|           | Permissible Exposure Limit (PEL): | _        |                      |
| NIOSH     | Recommended exposure limit        | 5 mg/m3  | Respirable.          |
|           | (REL):                            |          | ,                    |
| NIOSH     | Recommended exposure limit        | 10 mg/m3 | Total                |
|           | (REL):                            |          |                      |
| OSHA ZI   | Permissible exposure limit        | 5 mg/m3  | Respirable fraction. |
| OSHA ZI   | Permissible exposure limit        | 15 mg/m3 | Total dust.          |
| OSHA ZIA  | time weighted average             | 5 mg/m3  | Respirable fraction. |
| OSHA Z1A  | time weighted average             | 15 mg/m3 | Total dust.          |

# PHENOL 108-95-2

| ACGIH   | time weighted average                               | 5 ppm    |
|---------|---|----------|
| NIOSH   | Recommended exposure limit (REL):                   | 5 ppm    |
| NIOSH   | Recommended exposure limit (REL):                   | 19 mg/m3 |
| NIOSH   | Ceiling Limit Value and Time Period (if specified): | 15.6 ppm |
| NIOSH   | Ceiling Limit Value and Time Period (if specified): | 60 mg/m3 |
| OSHA Z1 | Permissible exposure limit                          | 5 ppm    |
| OSHA Z1 | Permissible exposure limit                          | 19 mg/m3 |



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| FORMALDEHYDE | 50-00  | )-()      |
|--------------|--|-----------|
| ACGIH        | Ceiling Limit Value:                                   | 0.3 ppm   |
| NIOSH        | Recommended exposure limit (REL):                      | 0.016 ppm |
| NIOSH        | Recommended exposure limit (REL):                      | 0.016 ppm |
| NIOSH        | Ceiling Limit Value and Time<br>Period (if specified): | 0.1 ppm   |
| NIOSH        | Ceiling Limit Value and Time<br>Period (if specified): | 0.1 ppm   |
| OSHA         | time weighted average                                  | 0.75 ppm  |
| OSHA         | Short term exposure limit                              | 2 ppm     |
| OSHA         | OSHA Action level:                                     | 0.5 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

Mechanical ventilation systems used to ventilate corrosive storage or process areas must be designed with components that are corrosion resistant.

### Eye protection

Wear chemical splash goggles and face shield when there is potential for exposure of the eyes or face to liquid, vapor or mist. Maintain eye wash station in immediate work area.

### Skin and body protection

Wear appropriate chemical impervious clothing and boots whenever there is potential for skin contact with product. Launder clothing before reuse. Maintain safety shower at all locations where skin contact could occur. Contact your local safety equipment supplier to assist the facility in determining proper selection of personal protective equipment for the applications/operations present at your facility.

Wear resistant gloves (consult your safety equipment supplier).

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

### Respiratory protection

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be persmissible under certain circumstancs where airborne concentrations are



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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

Form

No data

Colour

tan

Odour Boiling point/boiling range No data No data

pH

No data

Flash point

-4 °F / -20 °C, Seta closed cup

Evaporation rate

1 (Ethyl Ether)

**Explosion limits** 

No data

Vapour pressure Vapour density

No data

No data

Density

0.864 g/cm3 @ 77.00 °F / 25.00 °C 7.2 lb/gal @ 77.00 °F / 25.00 °C

Solubility

No data

Partition coefficient: n-

No data

octanol/water

log Pow

no data available

Autoignition temperature

No data

### 10. STABILITY AND REACTIVITY

### Stability

Stable.

### Conditions to avoid

Heat, flames and sparks.

### **Incompatible products**

Acids, alkalis, Amines, halogens, peroxides, Reducing agents, Strong oxidizing agents. Copper, Copper alloys, aluminum salts. 1,3-butadiene, aluminum, halogenated hydrocarbons, Iron, Lead, magnesium, Zinc, isocyanates, phenols, urea



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# Hazardous decomposition products

carbon dioxide and carbon monoxide, calcium oxide, acid vapors, Aldehydes

### Hazardous reactions

Formaldehyde reacts with peroxides, phenol, strong acids, amines and strong oxidizing agents. Formaldehyde reacts violently with nitrogen dioxide, nitromethane, perchloric acid, perchloric acid-aniline mixtures, or peroxyformic acid to yield explosive compounds. It reacts with hydrochloric acid or to organic chlorides to form the carcinogen, bis(chloromethyl)ether.

### Thermal decomposition

No data

# 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

| ACETONE             | LD 50 Rat: 5,800 mg/kg         |
|---------------------|--------------------------------|
| METHYL ETHYL KETONE | LD 50 Rat: 4,500 - 6,800 mg/kg |
|                     | LD 50 Rat: 2,300 - 3,500 mg/kg |
|                     | LD 50 Mouse: 670 mg/kg         |
|                     | LD 50 Rat: 2,300 - 3,500 mg/kg |
| CALCIUM CARBONATE   | LD 50 Rat: 6,450 mg/kg         |
| PHENOL              | LD 50 Rat: 317 mg/kg           |
| ORTHO CRESOL        | LD 50 Rat: 121 mg/kg           |
| FORMALDEHYDE        | LD 50 Rat: 100 mg/kg           |
|                     | LD 50 Mouse: 42 mg/kg          |

Acute inhalation toxicity

| ACETONE             | LC 50 Rat: > 16000 ppm, 4 h  |
|---------------------|--|
| METHYL ETHYL KETONE | LC 50 Rat: 11,700 mg/l ,<br>LC 50 Mouse: 11,000 mg/l ,<br>LC 50 Rat: 11,700 mg/l , 4 h |
| CALCIUM CARBONATE   | no data available  |
| PHENOL              | LC 50 Rat: 316 mg/m3 . 4 h   |
| ORTHO CRESOL        | LC 50 Rat: > 1,220 mg/m3 , 1 h<br>LC 50 Mouse: 0.179 mg/l , 2 h                        |
| FORMALDEHYDE        | LC 50 Rat: 203 mg/m3, 2 h  |



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Acute dermal toxicity

| LD 50 Rabbit: > 20,000 mg/kg                          |
|---|
| LD 50 Rabbit: > 8,000 mg/kg<br>LD 50 Rabbit: > 5 g/kg |
| no data ayailable                                     |
| LD 50 Rabbit: 850 mg/kg                               |
| LD 50 Rabbit: 890 mg/kg                               |
| LD 50 Rabbit: 288 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

Destroy by liquid incineration in accordance with applicable 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:

UN1133, ADHESIVES 3, II IATA\_P:



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UN1133, Adhesives 3, II

IATA C:

UN1133, Adhesives 3, II

CFR ROAD:

UN1133, Adhesives 3, II

CFR RAIL:

UN1133, Adhesives 3, II

CFR INWTR:

UN1133, Adhesives 3, II

IMDG ROAD:

UN1133, ADHESIVES 3, II

IMDG RAIL:

UN1133, ADHESIVES 3, II

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.

1.3. BUTADIENE

ARSENIC

LEAD

**ACRYLONITRILE** 

BENZENE

VINYLCYCLOHEXENE, 4-

QUARTZ / SAND

**FORMALDEHYDE** 

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

BENZENE

LEAD

1.3. BUTADIENE

SARA Hazard Classification

Fire Hazard

Acute Health Hazard Chronic Health Hazard



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SARA 313 Component(s)

| PHENOL       |
|--------------|
| FORMALDEHYDE |

108-95-2 50-00-0 1.1076% 0.137%

# Reportable quantity - Product

| US. EPA | <b>CERCLA</b> | Hazardous | Substances | (40) | CFR | 302) |
|---------|---------------|-----------|------------|------|-----|------|
|---------|---------------|-----------|------------|------|-----|------|

7016 lbs

# Reportable quantity - Components

| 4 J J I I           |          |          |
|---------------------|----------|----------|
| ACETONE             | 67-64-1  | 5000 lbs |
| METHYL ETHYL KETONE | 78-93-3  | 5000 lbs |
| CALCIUM CARBONATE   | 471-34-1 | none     |
| PHENOL              | 108-95-2 | 1000 lbs |
| ORTHO CRESOL        | 95-48-7  | 100 lbs  |
| FORMALDEHYDE        | 50-00-0  | 100 lbs  |
|                     |          |          |

|      | Health | Flammability | Reactivity | Other |
|------|--------|--------------|------------|-------|
| HMIS | 3*     | 3            | 2          |       |
| NFPA | 3      | 3            | 2          |       |

### 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).