

MATERIAL SAFETY DATA SHEET

Ashland

Page 001
 Date Prepared: 08/17/05
 Date Printed: 03/13/06
 MSDS No: 303.0407738-001.001

PLIOGRIP FLEXIBLE PUR SEALER

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: PLIOGRIP FLEXIBLE PUR SEALER
 Product Code: 599082
 General or Generic ID: URETHANE SEALANT

Company

Ashland
 Ashland Distribution Co. &
 Ashland Specialty Chemical Co.
 P. O. Box 2219
 Columbus, OH 43216
 614-790-3333

Emergency Telephone Number:

1-800-ASHLAND (1-800-274-5263)
 24 hours everyday

Regulatory Information Number:

1-800-325-3751

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% (by weight)
ESTER	28553-12-0	10.0- 20.0
BENZYL BUTYL PHTHALATE	85-68-7	10.0- 20.0
XYLENE	1330-20-7	0.0- 2.0
SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMA	64742-95-6	0.0- 2.0
ALKANES	90622-57-4	0.0- 2.0
METHYLENE DIPHENYLISOCYANATE	26447-40-5	0.0- 1.0

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye

May cause mild eye irritation. Symptoms include stinging, tearing, and redness. Additional symptoms of eye exposure may include: blurred vision.

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Skin

Can cause skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, burns and other skin damage. Additional symptoms of skin contact may include: skin blistering, Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use.

Swallowing

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. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms usually occur at air concentrations higher than the recommended exposure limits (See Section 8).

Symptoms of Exposure

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: redness of the face and neck, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), central nervous system excitation (giddiness, liveliness, light-headed feeling) followed by central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects, effects on memory, respiratory depression (slowing of the breathing rate), shortness of breath, loss of coordination, confusion, irregular heartbeat, coma.

Target Organ Effects

Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: mild, reversible liver effects, mild, reversible kidney effects, blood abnormalities, cataracts, effects on male fertility thymus damage testis damage, kidney damage, effects on hearing, respiratory sensitization.

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Developmental Information

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

Cancer Information

Based on the available information, this material cannot be classified with regard to carcinogenicity. This material is not listed as a carcinogen by the International Agency for Research on Cancer, the National Toxicology Program, or the Occupational Safety and Health Administration. In a study conducted by the National Toxicology Program (NTP), butyl benzyl phthalate caused leukemia in female rats when fed to the animals for two years. Results in male rats were inconclusive, and it did not cause leukemia in mice. There is no evidence that this chemical causes cancer in humans.

Other Health Effects

No data

Primary Route(s) of Entry

Inhalation, Skin absorption, Ingestion.

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

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

Swallowing

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.

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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.

Note to Physicians

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. This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity (See Section 3 - Swallowing) when deciding whether to induce vomiting. Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin, lung (for example, asthma-like conditions), kidney, blood-forming system, male reproductive system, immune system, auditory system, eye, Individuals with preexisting heart disorders may be more susceptible to arrhythmias (irregular heartbeats) if exposed to high concentrations of this material.

5. FIRE FIGHTING MEASURES

Flash Point

165.0 F (73.8 C)

Explosive Limit

(for product) Lower .4 Upper 8.0 %

Autoignition Temperature

No data

Hazardous Products of Combustion

May form: toxic fumes.

Fire and Explosion Hazards

If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

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Extinguishing Media

alcohol resistant (AR) foam, carbon dioxide, Use an extinguishing media appropriate for surrounding fire.

Fire Fighting Instructions

No data

NFPA Rating

Health - 2, Flammability - 1, Reactivity - 1

6. ACCIDENTAL RELEASE MEASURES

Small Spill

Eliminate all sources of ignition such as flares, flames (including pilot lights), and electrical sparks. Sweep up material for disposal or recovery. Absorb liquid on vermiculite, floor absorbent or other absorbent material. Persons not wearing proper personal protective equipment should be excluded from area of spill.

Large Spill

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. Notify the proper authorities as required that a spill has occurred. 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. Scoop into containers. Shovel material into containers. Thoroughly sweep area of spill to clean up any residual material. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Do not flush into sewers. Material should be placed in a container for recovery or transfer to a disposal facility. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks).

7. HANDLING AND STORAGE

Handling

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

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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. Avoid prolonged or repeated contact.

Storage

Containers should be stored in a cool, dry, well-ventilated area. Store away from flammable materials, sources of heat and flame, and foodstuffs. Exercise caution to prevent damage to or leakage from the container. Guard against water contamination to prevent decomposition. Keep containers closed when not in use. Keep from freezing. Do not store near extreme heat, open flame, or sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection

Wear safety glasses or goggles, resistant gloves, and other appropriate protective equipment essential for your operation.

Skin Protection

Wear resistant gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

Respiratory Protections

If workplace exposure limit(s) of product or any component is exceeded (see exposure guidelines), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

Engineering Controls

Store and handle in well-ventilated area. If mechanical ventilation is used, components must be acid-resistant.

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Exposure Guidelines

Component

ESTER (28553-12-0)

No exposure limits established

BENZYL BUTYL PHTHALATE (85-68-7)

No exposure limits established

XYLENE (1330-20-7)

OSHA PEL 100.000 ppm - TWA

OSHA VPEL 100.000 ppm - TWA

OSHA VPEL 150.000 ppm - STEL

ACGIH TLV 100.000 ppm - TWA

ACGIH TLV 150.000 ppm - STEL

OTHER LIMIT 46.000 ppm - TWA

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMA (64742-95-6)

No exposure limits established

ALKANES (90622-57-4)

No exposure limits established

METHYLENE DIPHENYLISOCYANATE (26447-40-5)

No exposure limits established

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point

No data

Vapor Pressure

(for product) .000 @ 68.00 F

Specific Vapor Density

No data

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Specific Gravity

No data

Liquid Density

10.000 lbs/gal @ 68.00 F

10.000 lbs/gal @ 68.00 F

Percent Volatiles

No data

Evaporation Rate

No data

Appearance

No data

State

No data

Physical Form

PASTY

Color

WHITE

Odor

SOLVENT-LIKE

pH

No data

Solubility in Water

INSOLUBLE, REACTS WITH WATER

10. STABILITY AND REACTIVITY

Hazardous Polymerization

Product can undergo hazardous polymerization.

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Hazardous Decomposition

May form: hydrogen chloride, nitrogen oxides, sulfur oxides.

Chemical Stability

No data

Incompatibility

Avoid contact with: alcohols, amines.

11. TOXICOLOGICAL INFORMATION

No data

12. ECOLOGICAL INFORMATION

No data

13. DISPOSAL CONSIDERATION

Waste Management Information

Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Ashland Distribution Company, IC&S Environmental Services Group at 800-531-7106.

14. TRANSPORT INFORMATION

DOT Information - 49 CFR 172.101

DOT Description:

NON-REGULATED BY D.O.T.

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Container/Mode:

55 GAL DRUM/TRUCK PACKAGE

NOS Component:

None

RQ (Reportable Quantity) - 49 CFR 172.101

Product Quantity (lbs) Component

1000	BUTYL BENZYL PHTHALATE
5000	XYLENES (O-, M-, P- ISOMERS)

15. REGULATORY INFORMATION

US Federal Regulations

TSCA (Toxic Substances Control Act) Status

TSCA (UNITED STATES) The intentional ingredients of this product are listed.

CERCLA RQ - 40 CFR 302.4(a)

Component	RQ (lbs)
BUTYL BENZYL PHTHALATE	100
XYLENES (O-, M-, P- ISOMERS)	100

SARA 302 Components - 40 CFR 355 Appendix A

None

Section 311/312 Hazard Class - 40 CFR 370.2

Immediate(X) Delayed(X) Fire(X) Reactive(X) Sudden Release of Pressure()

SARA 313 Components - 40 CFR 372.65

Section 313 Component(s)	CAS Number	%
XYLENE (MIXED ISOMERS)	1330-20-7	2.00

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OSHA Process Safety Management 29 CFR 1910
None listed

EPA Accidental Release Prevention 40 CFR 68
None listed

International Regulations

Inventory Status

AICS (AUSTRALIA) The intentional ingredients of this product are NOT listed.

DSL (CANADA) The intentional ingredients of this product are listed.

ECL (SOUTH KOREA) The intentional ingredients of this product are NOT listed.

EINECS (EUROPE) The intentional ingredients of this product are listed.

ENCS (JAPAN) The intentional ingredients of this product are NOT listed.

IECSC (CHINA) The intentional ingredients of this product are NOT listed.

PICCS (PHILIPPINES) The intentional ingredients of this product are NOT listed.

SWISS (SWITZERLAND) The intentional ingredients of this product are NOT listed.

State and Local Regulations

California Proposition 65
None

New Jersey RTK Label Information

BUTYL BENZYL PHTHALATE	85-68-7
XYLENES	1330-20-7

Pennsylvania RTK Label Information

1,2-BENZENEDICARBOXYLIC ACID, BUTYL PHEN	85-68-7
BENZENE, DIMETHYL-	1330-20-7