

PLIOGRIP® 5460 EPOXY
136208

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 (1-800-274-5263)

Product name	PLIOGRIP® 5460 EPOXY
Product code	136208
Product Use Description	No data

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid, tan

DANGER! VAPOR MAY CAUSE TEMPORARY BLURRING OF VISION. MAY BE HARMFUL. MAY CAUSE SEVERE BURNS OF RESPIRATORY AND DIGESTIVE TRACTS. MAY CAUSE ALLERGIC SKIN REACTION. CAUSES SEVERE BURNS OF THE EYES AND SKIN.

Potential Health Effects

Routes of exposure

Inhalation, Skin contact, Eye Contact, Ingestion

Eye contact

Exposure to liquid can cause irreversible eye damage. Exposure to vapor can cause severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and halo vision characterized by blurring vision around bright objects. 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. Additional symptoms of skin contact may include: allergic skin reaction (delayed skin rash which may be followed by blistering, scaling and other skin effects)

Ingestion

PLIOGRIP® 5460 EPOXY
136208

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.

Inhalation

It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing this material may be harmful or fatal. Symptoms may include severe irritation and burns to the nose, throat, and respiratory tract. Prolonged or repeated breathing of this material may result in chronic bronchitis (inflammation of the airways of the lungs). Symptoms include coughing and shortness of breath.

Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: respiratory tract, skin, lung (for example, asthma-like conditions), kidney, eye

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)

Target Organs

No data

Carcinogenicity

The International Agency for Research on Cancer (IARC) and the National Toxicology Program (NTP) have determined that there is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica in the form of quartz or cristobalite. In addition, IARC has determined that there is sufficient evidence for the carcinogenicity of quartz and cristobalite in experimental animals. Among individuals with silicosis, lung cancer occurs more frequently in those who smoke. The small amount of crystalline silica contained within this product is bound up within the resin and is not expected to present a health hazard during normal handling and use.

Reproductive hazard

There are no data available for assessing risk to the fetus from maternal exposure to this material.

PLIOGRIP® 5460 EPOXY
136208

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Concentration
AMIDOAMINE	NJTS# 800986-5524P	>=20-<30%
SILICA VITREOUS	60676-86-0	>=10-<15%
ALIPHATIC AMINE	NJTS# 254504001-5601	>=5-<10%
EPOXY RESIN CURING AGENT	NJTS# 800986-5577P	>=5-<10%
HYDROPHOBIC SILICA	NJTS# 254504001-5239	>=5-<10%
AROMATIC AMINE	NJTS# 800986-5525P	>=1.5-<5%
ALIPHATIC AMINE	NJTS# 800986-5526P	>=1.5-<5%
CRISTOBALITE	14464-46-1	>=1-<1.5%
QUARTZ / SAND	14808-60-7	>=0.5-<1%

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

Seek immediate medical attention. Do not induce vomiting. Vomiting will cause further damage to the mouth and throat. If individual is conscious and alert, immediately rinse mouth with water and give milk or water to drink. 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

PLIOGRIP® 5460 EPOXY
136208

Hazards: No information available.
Treatment: No information available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use an extinguishing media appropriate for surrounding fire.

Hazardous combustion products

May form: ammonia, carbon dioxide and carbon monoxide, nitrogen oxides, various hydrocarbons

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.

Flammability Class for Flammable Liquids

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 run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred.

Methods for cleaning up

Absorb liquid on vermiculite, floor absorbent or other absorbent material.

7. HANDLING AND STORAGE

Handling

PLIOGRIP® 5460 EPOXY
136208

Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing and wash before reuse. Shower after work using plenty of soap and water. 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

Do not store near extreme heat, open flame, or sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

SILICA VITREOUS		60676-86-0	
OSHA Z1A	time weighted average	0.1 mg/m3	Respirable dust.
NIOSH	Recommended exposure limit (REL):	6 mg/m3	
US CA OEL	Time Weighted Average (TWA)	0.1 mg/m3	Respirable dust.
Z3	Permissible Exposure Limit (PEL):		
Z3	time weighted average	0.8 mg/m3	
CRISTOBALITE		14464-46-1	
ACGIH	time weighted average	0.05 mg/m3	Respirable fraction.
ACGIH NIC	time weighted average	0.025 mg/m3	Respirable fraction.
OSHA Z1A	time weighted average	0.05 mg/m3	Respirable dust.
US CA OEL	Time Weighted Average (TWA)	0.05 mg/m3	Respirable dust.
	Permissible Exposure Limit (PEL):		
ACGIH	time weighted average	0.025 mg/m3	Respirable fraction.
Z3	time weighted average	0.05 mg/m3	Respirable.
Z3	time weighted average	0.15 mg/m3	Total dust.

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

PLIOGRIP® 5460 EPOXY
136208

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

Eye protection

Chemical splash goggles and face shield (8" min.) in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. (Consult your industrial hygienist.)

Skin and body protection

Wear impervious gloves (consult your safety equipment supplier).
To prevent skin contact, wear impervious full-body protective clothing.

Respiratory protection

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Form	No data
Colour	tan
Odour	No data
Boiling point/boilingrange	No data
pH	No data
Flash point	(>)210 °F / 99 °C, Seta closed cup
Evaporation rate	1 (Ethyl Ether)
Explosion limits	No data
Vapour pressure	No data
Vapour density	(>) 1 (AIR=1)
Density	1.081 g/cm ³ @ 77.00 °F / 25.00 °C 9 lb/gal @ 77.00 °F / 25.00 °C
Solubility	No data
Partition coefficient: n-octanol/water	No data
Autoignition temperature	No data

PLIOGRIP® 5460 EPOXY
136208

10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

Avoid contact with: heat

Incompatible products

Avoid contact with: aluminum, Copper, galvanized metals, peroxides, strong mineral acids, strong oxidizing agents, Zinc

Hazardous decomposition products

May form: ammonia, carbon dioxide and carbon monoxide, nitrogen oxides (NO_x), various hydrocarbons

Hazardous reactions

Product will not undergo hazardous polymerization.

Thermal decomposition

No data

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

EPOXY RESIN CURING AGENT LD 50 Rat: 1,670 mg/kg

AROMATIC AMINE LD 50 Rat: 970 mg/kg

ALIPHATIC AMINE LD 50 Mouse: > 10 g/kg

Acute inhalation toxicity

Acute dermal toxicity

EPOXY RESIN CURING AGENT LD 50 Rabbit: 1,242 mg/kg

PLIOGRIP® 5460 EPOXY
136208

ALIPHATIC AMINE

LD 50 Rabbit: > 1,000 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

Dispose of in accordance with all applicable local, state and federal regulations. Do not discharge effluent containing this product into lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA. 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:

UN3267, CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL, DIETHYLENE GLYCOL DI(AMINOPROPYL)ETHER) 8, III

IATA_P:

PLIOGRIP® 5460 EPOXY
136208

UN3267, Corrosive liquid, basic, organic, n.o.s. (2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL, DIETHYLENE GLYCOL DI(AMINOPROPYL)ETHER) 8, III

IATA_C:

UN3267, Corrosive liquid, basic, organic, n.o.s. (2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL, DIETHYLENE GLYCOL DI(AMINOPROPYL)ETHER) 8, III

CFR_ROAD:

UN3267, Corrosive liquid, basic, organic, n.o.s. (2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL, DIETHYLENE GLYCOL DI(AMINOPROPYL)ETHER) 8, III

CFR_RAIL:

UN3267, Corrosive liquid, basic, organic, n.o.s. (2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL, DIETHYLENE GLYCOL DI(AMINOPROPYL)ETHER) 8, III

CFR_INWTR:

UN3267, Corrosive liquid, basic, organic, n.o.s. (2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL, DIETHYLENE GLYCOL DI(AMINOPROPYL)ETHER) 8, III

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.

CRISTOBALITE
QUARTZ / SAND

SARA Hazard Classification Acute Health Hazard
Chronic Health Hazard

SARA 313 Component(s)

	Health	Flammability	Reactivity	Other
HMIS	3	1	0	
NFPA	3	1	0	

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136208

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).