Material Safety Data Sheet

Benzyl Glycidyl Ether

Section 1 - Chemical Product and Company Identification

MSDS Name: Benzyl Glycidyl Ether
Catalog Numbers: 418168
Supplier/Manufacturer:

Manufacturer/Supplier: Wuhan Biet Co.,Ltd For information, call: +86 27 8369 8488 For technical support, call: +86 27 8369 8488 For emergencies in China, call: 112

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name
89616-40-0	Benzyl Glycidyl Ether

Section 3 - Hazards Identification

Potential Health Effects

Eye Can cause severe eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes. Can injure eye tissue.

Skin Can cause severe skin irritation. 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. Additional symptoms of skin contact may include: allergic skin reaction (delayed skin rash which may be followed by blistering, scaling and other skin effects) 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.

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: stomach or intestinal upset (nausea, vomiting, diarrhea) irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), respiratory depression (slowing of the breathing rate), and death.
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, anemia, kidney damage, lung damage, Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans: anemia, effects on hearing.
Developmental Information No data
Cancer Information No data
Other Health Effects No data
Primary Route(s) of Entry Inhalation, Skin contact, Eye contact.

Section 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 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 decontaminate or discard contaminated shoes.
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.
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 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, auditory system, 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.

Section 5 - Fire Fighting Measures

Flash Point 200℃
Explosive Limit Not applicable
Autoignition Temperature No data

Hazardous Products of Combustion May form: acid vapors, aldehydes, carbon dioxide and carbon monoxide, nitrogen oxides.
Fire and Explosion Hazards Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.
Extinguishing Media alcohol foam, carbon dioxide, dry chemical.
Fire Fighting Instructions Water may be used to keep fire-exposed containers cool until fire is out. Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.
NFPA Rating Not determined

Section 6 - Accidental Release Measures

Small Spill 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 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. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal. Per good environmental management practices, prevent run-off to sewers, streams and other bodies of water. Stop spill at the source. Cover sewer grates and dike the spill. Absorb spilled material on to absorbents. Shovel materials into container. Close container tightly and dispose of properly.

Section 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. All five-gallon pails and larger metal containers, including tank cars and tank trucks, should be grounded and/or bonded when material is transferred. Warning. Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Published "autoignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of

this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions.

Section 8 - Exposure Controls, Personal Protection

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 Protection Wear impervious gloves (consult your safety equipment supplier)., To prevent 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 Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

Section 9 - Physical and Chemical Properties

Boiling Point (for product) 350.0 F (176.6 C) @ 760 mmHg **Vapor Pressure** (for product) 2.000 mmHg @ 70.00 F **Specific Vapor Density** 4.500 @ AIR=1
Specific Gravity 920 @ 77.00 F
Liquid Density 7.660 lbs/gal @ 77.00 F .920 kg/l @ 25.00 C
Percent Volatiles 100.0%
Evaporation Rate SLOWER THAN ETHYL ETHER
Appearance No data
State LIQUID
Physical Form HOMOGENEOUS SOLUTION
Color CLEAR, G COLOR 1 MAX
Odor No data
pH Not applicable

Section 10 - Stability and Reactivity

Hazardous Polymerization Product will not undergo hazardous polymerization. **Hazardous Decomposition** May form: acid vapors, aldehydes, carbon dioxide and carbon monoxide, nitrogen oxides.
Chemical Stability Stable.
Incompatibility Avoid contact with: acids, amines, strong oxidizing agents.

Section 11 - Toxicological Information

Skin, eye and respiratory irritant.

Toxicity data
ORL-RAT LD50 2050 mg kg-1
IPR-RAT LD50 1140 mg kg-1
IPR-MUS LD50 700 mg kg-1
SKN-RBT LD50 2520 mg kg-1
IHL-RAT LCLO 670 ppm
Risk phrases
R36 R37 R38.

Section 12 - Ecological Information

No data

Section 13 - Disposal Considerations

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

Section 14 - Transport Information

DOT Information - 49 CFR 172.101
DOT Description: FLAMMABLE LIQUIDS N.O.S.,3,UN1993,III
Container/Mode: 55 GAL DRUM/TRUCK PACKAGE
NOS Component: Benzyl Glycidyl Ether
RQ (Reportable Quantity) - 49 CFR 172.101 Not applicable

Section 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) None listed
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( ) Sudden Release of Pressure( )
SARA 313 Components - 40 CFR 372.65 None **International Regulations** Inventory Status Not determined **State and Local Regulations** California Proposition 65 None