

Date Prepared: 11/08/02
Supersedes: 05/01/98
Product Name: SafeSeal

ChemMasters

Material Safety Data Sheet

1. Chemical Product and Company Information

Product Name: SafeSeal

Product Description: SafeSeal is a water based acrylic curing and sealing compound for concrete.

ChemMasters
300 Edwards Street
Madison, Ohio 44057
440-428-2105

In Case of Emergency Contact:
CHEMTREC 800/424-9300

2. Composition / Information on Ingredients

Components	CAS #	Exposure Limits			% by Wt
		OSHA(PEL/TWA)	ACGIH (TLV/TWA)	OTHER	
Butyl benzyl phthalate	85-68-7	—	—	5 mg/m ³ *	1-2
Ethylene Glycol	107-21-1	—	50 ppm (ceiling)	—	1-2
Diethylene Glycol Butyl Ether	112-34-5	—	—	—	3-4
Acrylic Polymer	Trade Secret	Non-Hazardous	NE	---	15
Water	77	NE	NE	---	75-80

* for oil mist

3. Hazards Identification

CAUTION

May Cause Eye Irritation

Potential Health Hazards - Acute

Eye: Direct contact may cause irritation.

Skin: Prolonged or repeated exposure may cause slight irritation.

Inhalation: Exposure to mist may cause headache, nausea and/or other symptoms of upper respiratory tract irritation.

Ingestion: Slightly toxic. May produce signs of intoxication.

Potential Health Effects - Chronic:

Animals receiving repeated doses of Diethylene Glycol Monobutyl Ether developed blood anemia and secondary injury to the kidney and liver. Oral administration of Butyl benzyl phthalate have shown blood disorders in test animals. NTP concluded "probably carcinogenic" for these rats. Animal test results suggest Ethylene Glycol may cause liver, kidney and birth defects. However, there is currently no available information to suggest these chemicals cause the above effects in humans.

Carcinogenicity:

NTP
YES

IARC Monographs
NO

OSHA Regulated
NO

4. First Aid Measures

Eye: Immediately flush with plenty of water for 15 minutes.

Skin: Wash with soap and water.

Inhalation: Move victim to fresh air

Ingestion: If swallowed, give victim plenty of water. Consult a physician.

SEEK MEDICAL ATTENTION IF SYMPTOMS PERSIST.

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5. Fire Fighting Measures

Flash Point (method used): >200°F

Flammable Limits (% volume in air): Lower = No data available Upper = No data available

Auto Ignition Temperature: No data available

Extinguishing Media: Media appropriate for surrounding fire.

Hazard Combustion Products: Thermal decomposition may yield acrylic monomers, carbon monoxide and carbon dioxide.

Fire Fighting Instructions: Wear positive pressure, self-contained breathing apparatus.

6. Accidental Release Measures

Spill: Contain spilled material by diking. Absorb with inert material, then place in chemical waste container for later disposal. Keep spills out of municipal sewers and open bodies of water.

7. Handling and Storage

Handling: Always use good industrial hygiene practices and safety guidelines.

Storage: Store material in its original container. Keep containers tightly closed when not in use. Protect from freezing.

8. Exposure Controls / Personal Protection

Exposure Controls: Mechanical exhaust is recommended for indoor use.

Personal Protection: Safety glasses and rubber gloves should be worn to minimize contact with this material. Use of a NIOSH approved vapor respirator is recommended when chance of mist exists. A source of clean water should be available in work area for flushing eyes and skin.

9. Physical and Chemical Properties

Appearance: Milky white liquid of water consistency

Odor: Acrylic odor

Boiling Point: 212°F

Melting Point: Not applicable

Vapor Pressure (mm/Hg): 17 @20°C

Vapor Density (Air = 1): <1.0

Solubility in Water: 100%

Specific Gravity (H₂O = 1): 1.03

Evaporation Rate (n-Butyl Acetate = 1): <1.0

10. Stability and Reactivity

Chemical Stability: Stable under normal conditions

Conditions to Avoid: Freezing and high temperatures

Incompatibility (materials to avoid): None

Hazardous Decomposition or By-products: May yield acrylic monomers, carbon monoxide and carbon dioxide

Hazardous Polymerization: Will not occur

11. Toxicological Information

Components	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat)
Butyl benzyl phthalate	20,400 mg/kg	>10,000 mg/kg	6.7 mg/L - 4 hours
Diethylene Glycol Monobutyl Ether	6,560 mg/kg	4120 mg/kg	—

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12. Ecological Information

Butyl benzyl phthalate is listed as a marine pollutant. The aquatic toxicity, biodegradation, and bioaccumulation of BBP has been extensively studied. The following are representative of the existing data:

Fish (Freshwater):

96 hour LC40 Fathead minnow: 1.5 - 2.25 mg/l

96 hour LC40 Rainbow Trout: 1.5 - 2.25 mg/l

Invertebrate:

48 hour ErC50 Daphnia magna: 1.7 mg/l

Algae:

72 hour ErC50 to algae: 0.62->3.27 mg/l

13. Disposal Considerations

Dispose of in accordance with all federal, state, and local regulations. If uncertain of local requirements, contact the proper environmental authorities for disposal.

This material does not meet RCRA's characteristic definition of ignitability, corrosivity, or reactivity, and is not listed in 40 CFR 261.33. The toxicity characteristic (TC), however has not been evaluated by the Toxicity Characteristic Leaching procedure (TCLP).

14. Transportation Information

For U S National, International & Air Shipments:

Shipping Description: Non-Regulated Material

Emergency Response Guide Number: Not applicable

Hazard Class: Not applicable

Vessel: Butyl benzyl phthalate is listed as a marine pollutant; however, it is not necessary to label it a "Marine Pollutant" when shipping by vessel because it is not $\geq 10\%$ by weight of the product.

15. Regulatory Information

OSHA: This material is hazardous under the OSHA Hazard Communication Standard.

CERCLA Reportable Quantity: Butyl Benzyl phthalate has a R.Q. of 100 lbs. Diethylene Glycol Monobutyl Ether has a R.Q. of 1000 lbs. The R.Q. for this product is about 780 gallons or 6660 lbs due to Butyl benzyl phthalate

SARA Title III:

Section 311/312 hazard categories: Acute health, delayed health

Section 313 reportable ingredients:

Components	CAS #	Maximum %
Butyl benzyl phthalate	85-68-7	1.5%
Ethylene Glycol	107-21-1	1.5%
Diethylene Glycol Monobutyl Ether	112-34-5	3.5%

16. Other Information

MSDS Status: Revised entire

Industrial Abbreviation Legend on page 4 of this MSDS.

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Industrial Abbreviation Legend

ACGIH	American Conference of Governmental Industrial Hygienists	mg/m ³	milligrams per cubic meter
CAA	Clean Air Act (EPA)	NIOSH	National Institute for Occupational Safety and Health
CERCLA	Comprehensive Environmental Response, Compensation & Liability Act of 1980 (Superfund) (EPA)	NTP	National Toxicology Program
CNS	Central Nervous System	OSHA	Occupational Safety and Health Administration
CWA	Clean Water Act (EPA)	PEL	Permissible Exposure Limit
DOT	Department of Transportation	ppm	parts per million
EPA	Environmental Protection Agency	RCRA	Resource Conservation and Recovery Act (EPA)
g/kg	grams per kilogram	SARA	EPA's Superfund Amendment and Reauthorization Act (EPA)
IARC	Internal Agency for Research on Cancer	STEL	Short-Term Exposure Limit, ACGIH terminology
LC50	Lethal Concentration in which 50% of the test animals are expected to die	TLV	Threshold Limit Value
LD50	Lethal Dose in which 50% of the test animals are expected to die	TWA	Time-Weighted Average

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