



Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200



Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).
WHMIS Class D-2: Material causing other toxic effects.

HCS Class: Combustible liquid IIIA having a flash point between 60.0°C (140°F) and 93.3°C (200°F). HCS Class: Irritating substance.

WHMIS (Pictograms)

WHMIS (Classification)

HCS

Section 1. Chemical Product and Company Identification

Product Name/ Trade name	Betstone Penetrating Sealer	Code	669
Synonym	Sealer	CAS #	Mixture.
Chemical Family	Not available.	Validation Date	3/15/2005
Chemical Formula	Not applicable.	Print Date	3/15/2005
Manufacturer/ Supplier	Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607 (800) 666-2156	In Case of Emergency	CHEMTREC (800) 424-9300
TSCA	TSCA Inventory: All components listed or are exempt from listing.		
DSL/ NDSL	All components listed unless noted elsewhere on this MSDS		
		Protective Clothing 	

Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC ₅₀ /LD ₅₀
Dipropylene Glycol Methyl Ether 2-Butoxyethanol	34590-94-8 111-76-2	1 - 5 1 - 5	Not available. ACGIH (United States). TWA: 20 ppm OSHA (United States). TWA: 50 ppm	Not available. ORAL (LD50): Acute: 1746 mg/kg [Rat].
Isopropyl Alcohol	67-63-0	1 - 5	TWA: 400 ppm OSHA (United States). TWA: 400 ppm STEL: 500 ppm	ORAL (LD50): Acute: 16971 mg/kg [Rat].

Section 3. Hazards Identification

Potential Acute Health Effects	Hazardous in case of ingestion, . Slightly hazardous in case of skin contact (irritant), of eye contact (irritant). Non-corrosive for skin.
Potential Chronic Health Effects	Repeated skin exposure can produce local skin destruction, or dermatitis.
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Section 4. First Aid Measures

Eye Contact	In case of contact with eyes, rinse immediately with plenty of water. Seek medical attention.
Skin Contact	Wash with soap and water. Cold water may be used. Get medical attention if irritation develops.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Section 5. Fire Fighting Measures

Products of Combustion	Not available.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.
Special Remarks on Fire Hazards	Combustible when exposed to heat or flame.
Special Remarks on Explosion Hazards	Not available.

Section 6. Accidental Release Measures

Small Spill and Leak	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.
Large Spill and Leak	Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product.

Section 7. Handling and Storage

Precautions	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label.
Incompatibility	Not available.
Storage	Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). S2- Keep out of the reach of children.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Good general ventilation should be sufficient to control airborne levels. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection	
<i>Eyes</i>	Safety glasses.
<i>Body</i>	No special protective clothing is required.
<i>Respiratory</i>	A respirator is not needed under normal and intended conditions of product use. Wear appropriate respirator when ventilation is inadequate.
<i>Hands</i>	Gloves. Nitrile gloves.

**Protective Clothing
(Pictograms)****Exposure Limits**

Not available.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid.	Odor	Alcohol like.
Molecular Weight	Not applicable.	Taste	Not available.
pH	Not available.	Color	Clear.
Boiling/Condensation Point	100°C (212°F)		
Melting/Freezing Point	May start to solidify at 0°C (32°F) based on data for: Water.		
Critical Temperature	Not available.		
Instability Temperature	Not available.		
Specific Gravity	1.001 (Water = 1)		
Vapor Pressure	Not available.		
Vapor Density	Not available.		
Volatility	Not available.		
VOC	35.948 (g/l).		
Evaporation Rate	Not available.		
Dispersion Properties	See solubility in water, methanol, acetone.		
Solubility	Easily soluble in methanol, acetone. Partially soluble in cold water, hot water.		
The Product is:	COMBUSTIBLE.		
Auto-ignition Temperature	Not available.		
Flash Points	Closed cup: >54.444°C (130°F).		
Flammable Limits	Not available.		
Fire Hazards in Presence of Various Substances	COMBUSTIBLE.		
Explosion Hazards in Presence of Various Substances	Explosive in presence of open flames, sparks and static discharge, of heat.		

Section 10. Stability and Reactivity Data

Stability The product is stable.

Incompatibility with Various Substances Not available.

Hazardous Decomposition Products Not available.

Section 11. Toxicological Information

Routes of Entry Dermal contact. Eye contact. Inhalation. Ingestion.

Toxicity to Animals Acute oral toxicity (LD50): 1746 mg/kg [Rat]. (2-Butoxyethanol).
Acute toxicity of the gas (LC50): 700 ppm 7 hour(s) [Mouse]. (2-Butoxyethanol).

Acute Effects on Humans

Eyes Slightly hazardous in case of eye contact (irritant).

Skin Sensitization of the product: Not available.
Slightly hazardous in case of skin contact (irritant). Non-corrosive for skin. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Inhalation Not available.

Ingestion Hazardous in case of ingestion.

Chronic Effects on Humans Repeated skin exposure can produce local skin destruction, or dermatitis.

Special Remarks on Toxicity to Animals Not available.

Special Remarks on Chronic Effects on Humans Not available.

Section 12. Ecological Information

Ecotoxicity Not available.

BOD5 and COD Not available.

Products of Biodegradation Not available.

Toxicity of the Products of Biodegradation Not available.

Special Remarks on the Products of Biodegradation Not available.

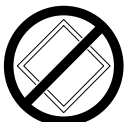
Section 13. Disposal Considerations

Waste Information Waste must be disposed of in accordance with federal, state and local environmental control regulations. Hazardous waste.

Waste Stream Not available.

Section 14. Transport Information

DOT (U.S.A)
(Pictograms)



TDG Classification - Not a TDG controlled material.



PIN UN, Proper Shipping Name, PG 1993 Flammable liquid, n.o.s. (When shipped in quantities greater than 119 Gallons)

Maritime Transportation Not available.

Special Provisions for Transport Not available.

Section 15. Other Regulatory Information and Pictograms

WHMIS (Classification) Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).
WHMIS Class D-2: Material causing other toxic effects.



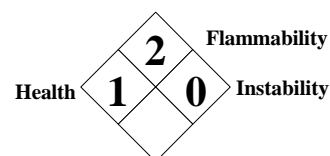
Regulatory Lists No products were found.

Other Regulations OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications	HCS (U.S.A.)	HCS Class: Combustible liquid IIIA having a flash point between 60.0°C (140°F) and 93.3°C (200°F). HCS Class: Irritating substance.
	USA Regulatory Lists	WARNING: This product contains chemical(s) known to the state of California to cause cancer, birth defects or other reproductive harm: Formaldehyde WARNING: This product contains chemical(s) known to the state of California to cause cancer.: Formaldehyde Massachusetts RTK: Formaldehyde SARA 311/312 MSDS distribution - chemical inventory - hazard identification: 2-Butoxyethanol: Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard; Isopropyl Alcohol: Fire hazard
	DSD (EEC)	This product is not classified according to the EU regulations.
	International Regulations Lists	No products were found.

Hazardous Material
Information System
(U.S.A.)

Health	1	National Fire Protection Association (U.S.A.)
Flammability	2	
Physical Hazard	0	



The Hazard Ranking systems presented on this MSDS provide only a quick reference for hazard information. The ENTIRE MSDS must be consulted to determine any specific hazards, First Aid measures, and PPE associated with this product.

Specific Hazard

Section 16. Other Information

Validated by CRushton on 3/15/2005.

Verified by CRushton.

Printed 3/15/2005.

Information Contact COMPANY NAME
COMPANY ADDRESS
EMERGENCY PHONE

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Validated on 3/15/2005.

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