
















MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION			
PRODUCT NAME:	Seal-Krete Epoxy-Shell 1000 Part B 231003, 231005, 982001, 982002, 982003,		
PART NUMBER:	982004, 982005, 982006, 982007, 982008, 982009, 982010, 982011, 982012, 982013, 982014, 982015, 982016, 982999	DATE:	June 1, 2012
TRADE NAME:	Seal-Krete Epoxy-Shell 1000 Part B		
GENERAL USE:	Protective Coating		
CHEMICAL FAMILY:	Amines+Aromatic Alcohol Blend		
PRODUCT DESCRIPTION:	Pale straw colored liquid with amine odor.		
MANUFACTURER			
SEAL-KRETE/ Clayton Corporation			
TELEPHONE NUMBER (General Inquiries) (800) 323-7357 Toll-Free / (863) 967-1535 (Local)			
ADDRESS (NUMBER, STREET, P.O. BOX) 306 Gandy Road			
(CITY, STATE AND ZIP CODE) Auburndale, FL 33823	COUNTRY USA	24-HOUR EMERGENCY TELEPHONE NUMBERS (800) 255-3924 TOLL-FREE in North America (USA/Canada) 01- (813) 248-0585 International calls outside the United States and Canada	
DATE PREPARED: June 1, 2012	SUPERSEDES: August 19, 2011		
SECTION 2 - HAZARDS IDENTIFICATION			
EMERGENCY OVERVIEW:			
Danger! May cause allergic skin reaction. Dangerous for the environment. Causes eye and skin burns. Causes digestive and respiratory tract burns. Harmful in contact with skin, by inhalation and if swallowed. Target Organs: Respiratory system, central nervous system (CNS), Eyes, Skin, Liver, Kidney and Mucous membranes.			
USA (DOT)	CANADA (WHMIS)SYMBOL(S)	EUROPEAN	(GHS) HAZARD SYMBOLS
	  	 	  
HMIS HAZARD RATINGS			
0 = INSIGNIFICANT, 1 = SLIGHT, 2 = MODERATE 3 = HIGH, 4 = EXTREME * - CHRONIC HEALTH HAZARD - SENSITIZATION		HEALTH:	2*
		FLAMMABILITY:	1
		PHYSICAL HAZARD:	1
REQUIRED PERSONAL PROTECTIVE EQUIPMENT:			
HMIS PERSONAL PROTECTIVE EQUIPMENT LETTER:		    	
C		Personal protective equipment must be selected to prevent contact with skin and eyes. At a bare minimum, safety glasses, gloves, apron. In some cases, full body suits and boots will be needed.	
RISK PHRASES			
R20/21/22: Harmful by inhalation, in contact with skin and if swallowed. R34: Causes burns. R43: May cause sensitization by skin contact. R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.			
SAFETY PHRASES			
S1/2: Keep locked up and out of the reach of children. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28: After contact with skin, wash immediately with plenty of...(to be specified by the manufacturer). S36/37/39: Wear suitable protective clothing, gloves and eye/face protection. S45: in case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S61: Avoid release to the environment. Refer to special instructions/Safety data sheets.			

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Seal-Krete Epoxy-Shell 1000 Part B					
SECTION 2 - HAZARDS IDENTIFICATION (Continued)					
POTENTIAL HEALTH EFFECTS					
ACUTE EXPOSURE EFFECTS					
INHALATION: Causes chemical burns to the respiratory tract. Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. May cause burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.					
SKIN: Causes irritation with symptoms of reddening, itching, and swelling. Can cause sensitization. Persons previously sensitized can experience allergic skin reaction with symptoms of reddening, itching, swelling, and rash. Cured material is difficult to remove.					
EYES: Causes irritation with symptoms of reddening, tearing, stinging, and swelling. May cause temporary corneal injury. Vapor may cause irritation with symptoms of burning and tearing.					
INGESTION: Causes gastrointestinal tract burns. Causes gastrointestinal upset with vomiting , nausea and diarrhea.					
CHRONIC EXPOSURE EFFECTS					
As a result of previous repeated overexposures or a single large dose, certain individuals may develop a respiratory sensitization to certain amines that may cause them to react to a later exposure at levels well below the exposure limits or guidelines. These asthmatic symptoms, which can include chest tightness, wheezing, cough, shortness of breath or asthmatic attack, may be delayed up to several hours after exposure. Extreme asthmatic reactions can be life threatening. This product may produce burns sometimes delayed after skin exposure.					
CARCINOGENICITY:					
NTP? NO		IARC MONOGRAPHS? NO		OSHA REGULATED? NO	
CALIFORNIA, Prop.65? NO				ESIS NOTATION? NO	
SECTION 3 - HAZARDOUS INGREDIENTS					
Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
Isophorone Diamine	40%	2855-13-2	220-666-8	C	R21/22,R34, R43, R52/53
Benzyl Alcohol	40%	100-51-6	202-859-9	Xn	R20/22
Cycloaliphatic Amine Adduct	20%	NE	NE	C	R21/22,R34, R43, R52/53
NOTES: This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and European Union Directive 1997/2006/EC (REACH). Hazard symbols and risk phrases are based on maximum listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS) or the European (GHS) directive 91/155/EEC and are considered trade secrets under US Federal Law (29CFR and 40CFR), Canadian Law (Health Canada Legislation), and European Union Directive 67/548/EEC.					
SECTION 4 - FIRST AID MEASURES					
INHALATION: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.					
EYES: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Use lukewarm water if possible. Use fingers to ensure that eyelids are separated and that the eye is being irrigated. Then remove contact lenses, if easily removable, and continue eye irrigation for not less than 15 minutes. Get medical attention if irritation develops. Notes to physician: Stain for evidence of corneal injury. If cornea is burned, instill antibiotic/steroid preparation as needed.					

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Seal-Krete Epoxy-Shell 1000 Part B			
SKIN: Immediately remove contaminated clothing and shoes. Wash off with soap and water. Use lukewarm water if possible. Wash contaminated clothing before reuse. For severe exposures, immediately get under safety shower and begin rinsing. Get medical attention if irritation develops and persists.			
INGESTION: Do NOT induce vomiting. Wash mouth out with water. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Do not give anything by mouth to an unconscious person. Get medical attention. Notes to physician: Treat symptomatically. There is no specific antidote. Inducing vomiting is contraindicated because of the corrosive nature of the product.			
SECTION 5 - FIRE FIGHTING MEASURES			
DATA RELATED TO FIRE:			
FLASH POINT:	213 °F /101 °C	AUTO-IGNITION TEMPERATURE:	NE
FLAMMABLE/EXPLOSIVE LIMITS:		LOWER:	NE
		UPPER:	NE
Sensitivity to Mechanical Impact/ STATIC DISCHARGE: Not sensitive.			
GENERAL HAZARDS: Combustible liquid avoid sources of ignition. Decomposition products can be toxic and irritating.			
SUITABLE EXTINGUISHING MEDIA: Water Fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.			
UNSUITABLE EXTINGUISHING MEDIA: None.			
FIRE FIGHTING PROCEDURES: Firefighters should wear NFPA compliant structural firefighting protective equipment, including self-contained breathing apparatus and NFPA compliant helmet, hood, boots and gloves. Avoid contact with product. Decontaminate equipment and protective clothing prior to reuse. During a fire, organic amine vapors and other irritating, toxic gases may be generated by thermal decomposition or combustion.			
UNUSUAL FIRE AND EXPLOSION HAZARDS: Closed container may forcibly rupture under extreme heat or when contents are contaminated. Use cold-water spray to cool fire-exposed containers to minimize the risk of rupture. Large fires can be extinguished with large volumes of water applied from a safe distance.			
HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, carbon monoxide, oxides of nitrogen, ammonia, amine vapors dense black smoke.			
SECTION 6 - ACCIDENTAL RELEASE MEASURES			
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Evacuate non-emergency personnel. Isolate the area and prevent access. Remove ignition sources. Notify management. Put on protective equipment. Control source of the leak. Ventilate. Contain the spill to prevent spread into drains, sewers, water supplies, or soil. Cover spill area with suitable absorbent material (Kitty Litter, Oil-Dri®, etc). Saturate absorbent material with acidic neutralization solution and mix. Wait 15 minutes. Collect material in open-head plastic containers.			
SECTION 7 - HANDLING AND STORAGE			
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Wear all specified personal protective equipment Keep away from open flames, hot surfaces and sources of ignition. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Do not ingest. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Store under an inert atmosphere.			
SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION			
Component	CAS #	ACGIH Exposure Limits	OSHA Exposure Limits
Isophorone Diamine	2855-13-2	NE	NE
Benzyl Alcohol	100-51-6	NE	NE
Cycloaliphatic Amine Adduct	NE	NE	NE
PERSONAL PROTECTION			
RESPIRATORY PROTECTION: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.			


MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Seal-Krete Epoxy-Shell 1000 Part B	
SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION (Continued)	
PROTECTIVE GLOVES: Gloves should be worn., Nitrile rubber gloves., Butyl rubber gloves., Neoprene gloves.	
EYE PROTECTION: When directly handling liquid product, eye protection is required. Examples of eye protection include a chemical safety goggle, or chemical safety goggle in combination with a full face shield when there is a greater risk of splash.	
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Avoid all skin contact. Emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of this product. Follow all label instructions.	
ENGINEERING CONTROLS: Superior area ventilation is absolutely required when working with amine containing products to keep airborne concentrations below the listed TLV/TWA's. Respiratory protection must also be worn at all times to avoid inhalation exposure.	
WORK / HYGIENIC PRACTICES: Emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of this product. Follow all label instructions. Thoroughly wash up with soap and water after handling this product and before eating, drinking or smoking. launder contaminated clothing before re-use.	
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES	
APPEARANCE AND ODOR Light yellow liquid with a slight odor.	VAPOR PRESSURE 0.02mmHg @20°C, 68°F
ODOR THRESHOLD NE	SPECIFIC GRAVITY (WATER = 1) 1.04 @ 20 °C (68 °F)
FREEZING POINT NE	BOILING POINT 401°F
SOLUBILITY IN WATER Moderately soluble.	COEFFICIENT OF WATER / OIL DISTRIBUTION NR
pH NE but alkaline.	SOLUBILITY IN ORGANIC SOLVENTS Soluble
FLASH POINT 213 °F / 101 °C PMCC	VISCOSITY NR
FLAMMABLE LIMITS LEL: NE UEL: NE	VAPOR DENSITY (AIR = 1) 5.88
AUTOIGNITION TEMPERATURE NE	EVAPORATION RATE (WATER = 1) <1
VOLATILE ORGANIC COMPOUND (VOC) INFORMATION NE	
NOTES:	
SECTION 10 - STABILITY AND REACTIVITY	
STABILITY Pale straw colored liquid with amine odor.	CONDITIONS TO AVOID: Excessive heat and incompatible substances.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents, acids, halogens, halogenated hydrocarbons, nitromethane, hypochlorite, Related amines and diamines are corrosive to zinc, aluminum, copper and copper alloys..	
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Carbon dioxide, carbon monoxide, oxides of nitrogen, ammonia, amine vapors dense black smoke.	
HAZARDOUS POLYMERIZATION: Will not occur.	CONDITIONS TO AVOID: None related to polymerization.
SECTION 11 - TOXICOLOGICAL INFORMATION	
Complete Product	
Oral LD₅₀	Product is a corrosive gastro-intestinal irritant.
Dermal LD₅₀	Not known but corrosive to intact skin.
Inhalation LC₅₀	Not known but vapors are capable of causing respiratory irritation.
Irritation / Sensitization	Chemical corrosive irritant to eyes; possible sensitizer and irritant to skin and respiratory tract.
Carcinogenicity	No Carcinogenic substances as defined by IARC, NTP and/or OSHA
Mutagenicity	Negative, Point mutation in mammalian cells (HPRT test). Ames: negative (Salmonella typhimurium, Metabolic Activation: with/without)
Reproductive Toxicity	Not Known

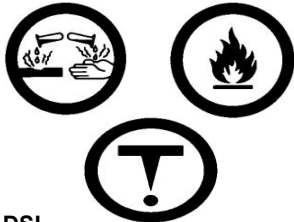

MATERIAL SAFETY DATA SHEET

PRODUCT NAME:	Seal-Krete Epoxy-Shell 1000 Part B
Teratogenicity	Not Known

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Seal-Krete Epoxy-Shell 1000 Part B			
Product Components			
Component	CAS #	LD50 of Ingredient (Oral, Rat - unless otherwise specified)	LC50 of Ingredient (Inhalation, Rat - unless otherwise specified)
Isophorone Diamine	2855-13-2	LD50 (Oral, rat) : 1030 mg/kg	NE
Benzyl Alcohol	100-51-6	Oral, rat: LD50 = 1230 mg/kg	Inhalation, rat: LC50 = >500 mg/m3;
Cycloaliphatic Amine Adduct	NE	NE	NE
SECTION 12 - ECOLOGICAL INFORMATION			
<p>Isophorone Diamine: Toxic to fish and Pseudomonas putida. No further information is available.</p> <p>Benzyl Alcohol: Fish: Fathead Minnow: LC50 = 46.41 mg/L; 96 Hr.; Static, Soft Water Fathead Minnow: LC50 = 59.30 mg/L; 96 Hr.; Static, Hard Water Bluegill/Sunfish: LC50 = 25.05 mg/L; 96 Hr.; Static, Hard Water Goldfish: LC50 = 64.74 mg/L; 96 Hr.; Static, Hard Water flea Daphnia: EC50 = 400.0 mg/L; 48 Hr.; Unspecified flea Daphnia: EC50 = 23.0 mg/L; 48 Hr.; Unspecified ria: Phytobacterium phosphoreum: EC50 = 71.4 mg/L; 5,15,30 minutes; Microtox test, 15 degrees C log Pow:1.1 Fish toxicity: LC50 (48-96hr) fathead minnow 770-460 mg/l, static bioassay at 18-22°C [Verschuere, K. Handbook of Environmental Data of Organic Chemicals 2nd ed., 1983, Van Nostrand Reinhold, New York] Invertebrate toxicity: EC50 (5,15,30 min) Photobacterium phosphoreum 71.4 mg/l Microtox test [Kaiser, K.L.E; et al. Water Pollut. Res. J. Canada 1991, 26 (3),361-431] EC50 (48 hr) Daphnia magna 400 mg/l, EC100 (48 hr) Daphnia magna 500 mg/l</p> <p>Environmental: If released to soil, benzyl alcohol is expected to display high mobility and readily leach through soil. Volatilization from dry soil to the atmosphere may be an important fate process; however, it is not expected to be an important process in moist soils. If released to water, benzyl alcohol is expected to undergo microbial degradation under aerobic and anaerobic conditions.</p> <p>Physical: In the atmosphere, benzyl alcohol is expected to exist almost entirely in the vapor phase.</p> <p>The estimated half-life for the vapor phase reaction of benzyl alcohol with photochemically produced hydroxyl radicals is 2 days.</p> <p>Other: Benzyl alcohol's volatilization to the atmosphere, hydrolysis, direct photolytic degradation, chemical oxidation, bioconcentration in fish and aquatic organisms, nor adsorption to sediment and suspended organic matter are not expected to be significant processes in environmental waters.</p>			
SECTION 13 - DISPOSAL CONSIDERATIONS			
<p>WASTE DISPOSAL METHOD:</p> <p>Waste Disposal Method: Waste disposal should be in accordance with existing federal, state and local environmental control laws. Incineration is the preferred method.</p> <p>Empty Container Precautions: Empty containers retain product residue; observe all precautions for product. Do not heat or cut empty container with electric or gas torch because toxic vapors and gases may form. Do not reuse without thorough commercial cleaning and reconditioning. If container is to be disposed, ensure all product residues are removed prior to disposal.</p>			
SECTION 14 - TRANSPORT INFORMATION			
<p>LIMITED QUANTITY: For packages with inner packagings of no more than 5 L (1.3 gal) and package weight less than 30 kg (66 lbs), this product can be shipped as Limited Quantity.</p>			
PROPER SHIPPING NAME: Corrosive liquid, n.o.s. (Isophorone Diamine)			
DOT HAZARD CLASS / Pack Group:	8 / PG III	IATA HAZARD CLASS / Pack Group:	8/PGIII
REFERENCE:	49CFR, IATA, IMDG.	IMDG HAZARD CLASS:	8, PGIII
UN / NA IDENTIFICATION NUMBER:	UN1760	RID/ADR Dangerous Goods Code: TDG Code (Canada):	UN1760, SC1
HAZARD SYMBOLS: Corrosive, 8.		Hazard Identification Number (HIN):	80 EAC=2X
<p>Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.</p>			

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Seal-Krete Epoxy-Shell 1000 Part B	
SECTION 15 - REGULATORY INFORMATION	
TSCA (USA - Toxic Substance Control Act):	Listed on the TSCA Inventory.
SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):	No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.
Acute Health:	Yes
Chronic Health:	No
Fire:	No
Sudden Release of Pressure:	No
Reactive:	No
SARA 313 REPORTABLE INGREDIENTS:	No supplier notification required for any components of this product.
CERCLA (USA - Comprehensive Response Compensation and Liability Act):	None listed.
California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986:	None listed.
State Right To Know Listings:	CAS#100-51-6 (Benzyl Alcohol) can be found on the following RTK lists: MA, MN, PA.
CPR (Canadian Controlled Products Regulations): "This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations. WHMIS Classifications: B3,D2A . E	
IDL (Canadian Ingredient Disclosure List):	CAS# 2855-13-2 Isophorone Diamine,
DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List):	Listed on DSL.
EINECS (European Inventory of Existing Commercial Chemical Substances):	Referenced, except Cycloaliphatic Amine Adduct.
WGK Water Quality Index:	2
SECTION 16 - OTHER INFORMATION	
Legend:	
ACGIH American Congress of Government Industrial Hygienists	
CAS Chemical Abstracts Service	
EINECS European Inventory of Existing Commercial Chemical Substances	
HMIS Hazardous Materials Identification System	
IARC International Agency for Research on Cancer	
NA Not Available ND Not Determined	
NE Not Established NR Not Reported	
NIOSH National Institute for Occupational Safety and Health	
NTP National Toxicology Program	
OSHA Occupational Safety and Health Administration	
Authored to USA (ANSI), CANADA (WHMIS), EU, and GHS standards 01/12/2011. New issue. JTV	
MSDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com	
The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.	