

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Seal-Krete Dura Shell (Part A)
PRODUCT NUMBERS: 228001 Dark Grey

TRADE NAME: Seal-Krete Dura Shell (Part A)
GENERAL USE: Sealer
CHEMICAL FAMILY: 2K Water Urethane Gloss Sealer
PRODUCT DESCRIPTION:
 Dark Grey liquid with very faint odor.



MANUFACTURER
Seal-Krete / Clayton Corporation
TELEPHONE NUMBER (General Inquiries)
 (800)323-7357 Toll-Free / (863)967-1535 (Local)

24-HOUR EMERGENCY TELEPHONE NUMBERS

(800) 255-3924

TOLL-FREE in North America (USA/Canada)

01- (813) 248-0585

ADDRESS (NUMBER, STREET, P.O. BOX)
 306 Gandy Road
(CITY, STATE AND ZIP CODE) COUNTRY
 Auburndale, FL 33823
DATE PREPARED: May 16, 2012
SUPERSEDES: New edition

International calls outside the United States and Canada

SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Caution! Overexposure to aerosol, vapor or mist may cause eye, skin and respiratory tract irritation, or nausea. Prolonged or repeated skin contact may defat the skin and cause irritation. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture. Irritating gases/fumes may be given off during burning or thermal decomposition.

USA DOT	CANADA (WHMIS) SYMBOL(S)	EUROPEAN	(GHS) HAZARD SYMBOLS
None			

HMIS HAZARD RATINGS

0 = INSIGNIFICANT, 1 = SLIGHT, 2 = MODERATE
3 = HIGH, 4 = EXTREME
 * - CHRONIC HEALTH HAZARD

HEALTH:	1
FLAMMABILITY:	0
PHYSICAL HAZARD:	0

REQUIRED PERSONAL PROTECTIVE EQUIPMENT:

HMIS PERSONAL PROTECTIVE EQUIPMENT LETTER: **C** **Safety Glasses - required at all times. Gloves, apron - required where splash hazard exists.**

RISK PHRASES

R36/38: Irritating to eyes and skin.

SAFETY PHRASES

S36/37: Wear suitable protective clothing and gloves.

POTENTIAL HEALTH EFFECTS

ACUTE EXPOSURE EFFECTS

INHALATION:

Harmful if inhaled in high concentrations. May cause respiratory tract irritation. May cause sensitization with repeated exposures.

SKIN:

Causes skin irritation/sensitization in susceptible individuals; much more prevalent with prolonged and/or chronic exposure.

EYES:

Causes chemical eye irritation. May cause redness and pain.

INGESTION:

Harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause dizziness, incoordination, headache, or confusion.

CHRONIC EXPOSURE EFFECTS

Caution! Chronic inhalation of product vapors may cause respiratory tract irritation and/or sensitization in a small percentage of the population. Chronic skin exposure may result in rash.

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PRODUCT NAME: Seal-Krete Dura Shell (Part A)					
PRODUCT NUMBERS: 228001 Dark Grey					
CARCINOGENICITY:					
NTP? No	IARC MONOGRAPHS? No				
CALIFORNIA, Prop.65? No	OSHA REGULATED? No				
	ESIS NOTATION? No				
SECTION 3 - HAZARDOUS INGREDIENTS					
Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 2)
Dipropylene Glycol n-Butyl Ether (DPNB)	1-5	29911-28-2	249-951-5	Xn, Xi	R22, R36/38
Propylene Glycol n-Butyl Ether (PNB)	0.5-5	5131-66-8	225-878-4	F, Xn, Xi	R10, R22, R36/38
Triethanolamine*	0.5-5	102-71-6	203-049-8	Xi	R36
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.					
* This product contains an amine neutralizing agent and as such is bound in the matrix of the product as a salt. However, upon processing or drying/hardening of the coating some amine may be released.					
SECTION 4 - FIRST AID MEASURES					
INHALATION: Remove victim from exposure area into fresh air. If breathing becomes labored or ceases, obtain immediate medical attention.					
EYES: Remove contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and					
SKIN: Wash with mild soap and water. See a physician if irritation persists.					
INGESTION: Do not induce vomiting. Give water to drink. Get medical aid immediately. Call a poison control center.					
CHRONIC HEALTH EFFECTS: Chronic inhalation of product mists (i.e.. when spraying) may cause respiratory tract irritation. Prolonged or repeated exposure may cause irritation to skin, eyes and to the digestive system if swallowed.					
SECTION 5 - FIRE-FIGHTING MEASURES					
DATA RELATED TO FIRE:					
FLASH POINT: >213°F		AUTO-IGNITION TEMPERATURE: None			
FLAMMABLE/EXPLOSIVE LIMITS: NA		LOWER: NA		UPPER: NA	
Sensitivity to Mechanical Impact/ STATIC DISCHARGE: None.					
GENERAL HAZARDS: Combustible product.					
SUITABLE EXTINGUISHING MEDIA: Use Alcohol Resistant Foam, Dry Chemical, CO ₂ or Water Spray/mists to fight fires involving this product.					
UNSUITABLE EXTINGUISHING MEDIA: None.					
FIRE FIGHTING PROCEDURES: Normal procedures are applicable. No special procedures are required for fires involving this product.					
UNUSUAL FIRE AND EXPLOSION HAZARDS: None.					
HAZARDOUS COMBUSTION PRODUCTS: Carbon Monoxide, Carbon Dioxide, Nitrogen oxides, Silicon oxides, Ammonia.					

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PRODUCT NAME: Seal-Krete Dura Shell (Part A)
PRODUCT NUMBERS: 228001 Dark Grey

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Contain spill. If spilled in an enclosed area, ventilate. Wear proper personal protective clothing and equipment. Do not flush liquid into public sewer, water systems or surface waters. Recover as much as possible for reuse. Absorb remainder with an inert material. Place into labeled, closed containers for disposal. Wash the spill area with soap and water. Change contaminated clothes and launder before reuse. **CAUTION:** Spilled liquid and dried film are slippery. Dispose in accordance with local, state and federal regulations.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Handling: Avoid eye contact. Avoid repeated or prolonged skin contact. Avoid inhalation of mists / fumes. Minimize contact with air to reduce contamination with mold, fungus, or other organisms which could cause decomposition or spoilage. Wash thoroughly after handling this product and before eating, smoking or using restroom facilities. Use under well-ventilated conditions.

Storage: Keep container closed when not in use. Do not store in open, unlabeled or mislabeled containers. Do not allow product to freeze. Do not store over 120°F/48°C

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	CAS #	ACGIH Exposure Limits (mg/m3 unless otherwise noted)	OSHA Exposure Limits (mg/m3 unless otherwise noted)
Dipropylene Glycol n-Butyl Ether	29911-28-2	NE	NE
Propylene Glycol n-Butyl Ether	5131-66-8	NE	NE
Triethanolamine	102-71-6	5	NE

PERSONAL PROTECTION

RESPIRATORY PROTECTION:
 Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

PROTECTIVE GLOVES:
 Wear appropriate protective gloves to prevent skin exposure. Wear appropriate protective clothing to limit skin exposure.

EYE PROTECTION:
 Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:
 Facilities storing this material should be equipped with an eyewash facility and a safety shower.

ENGINEERING CONTROLS:
 Provide adequate area ventilation to keep airborne exposure concentrations below the listed TLVs

WORK / HYGIENIC PRACTICES:
 Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR Dark Grey liquid, with very faint odor.	VAPOR PRESSURE NR
ODOR THRESHOLD NR	SPECIFIC GRAVITY (WATER = 1) 1.05 g/ml, 8.78 lbs/gal.
FREEZING / MELTING POINT NE	BOILING POINT/RANGE 100°C, 212°F estimated.
SOLUBILITY IN WATER Soluble.	COEFFICIENT OF WATER / OIL DISTRIBUTION NR
pH NE	SOLUBILITY IN ORGANIC SOLVENTS NR

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PRODUCT NAME: Seal-Krete Dura Shell (Part A)	
PRODUCT NUMBERS: 228001 Dark Grey	
FLASH POINT >213°F	VISCOSITY NR
FLAMMABLE LIMITS LEL: None UEL: None	VAPOR DENSITY (AIR = 1) NR
AUTOIGNITION TEMPERATURE NE	EVAPORATION RATE (WATER = 1) NA
VOLATILE ORGANIC COMPOUND (VOC) INFORMATION 78.7 g/L EPA Method 24.	

SECTION 10 - STABILITY AND REACTIVITY

STABILITY Stable under normal temperatures and pressures.	CONDITIONS TO AVOID: Incompatible materials, excess heat. Protect from freezing.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents, strong bases, strong acids, reactive metals, water reactive materials.	
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Carbon monoxide, carbon dioxide, nitrogen oxides, ammonia.	
HAZARDOUS POLYMERIZATION: Will not occur.	CONDITIONS TO AVOID: None related to polymerization.

SECTION 11 - TOXICOLOGICAL INFORMATION

Complete Product

Oral LD ₅₀	Product is likely to be a gastro-intestinal irritant.
Dermal LD ₅₀	Not known - product is irritating by contact with skin.
Inhalation LC ₅₀	Product, especially when sprayed, may be an irritant to the respiratory tract.
Irritation / Sensitization	Chemical irritant to eyes; possible irritant to skin and respiratory tract.
Carcinogenicity	Not Known
Mutagenicity	Not Known
Reproductive Toxicity	Not Known
Teratogenicity	Not Known

Product Components

Component	CAS #	LD50 of Ingredient (Oral, Rat - unless otherwise specified)	LC50 of Ingredient (Inhalation, Rat - unless otherwise specified)
Dipropylene Glycol n-Butyl Ether	29911-28-2	4000 mg/kg	>2040mg/m3
Propylene Glycol n-Butyl Ether	5131-66-8	5009 mg/kg	NE
Triethanolamine	102-71-6	4190 mg/kg 5846 mg/kg oral mouse.	NE

SECTION 12 - ECOLOGICAL INFORMATION

The product is biodegradable, and is expected to have moderate mobility in soils.

Dipropylene Glycol n-Butyl Ether: Toxicity to fish LC50 - other fish - 841 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates.
EC50 - Daphnia magna (Water flea) - 1,000 mg/l - 48 h

Triethanolamine: Toxicity to fish LC50 - Lepomis macrochirus (Bluegill) - 450 - 1,000 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates.
EC50 - Daphnia - 609.98 mg/l - 48 h

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PRODUCT NAME: Seal-Krete Dura Shell (Part A)
PRODUCT NUMBERS: 228001 Dark Grey

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Dispose of in a manner consistent with federal, state, and local regulations. Recondition or dispose of empty container in accordance with governmental regulations.

SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: Not regulated for transport.

DOT HAZARD CLASS / Pack Group: Not regulated	IATA HAZARD CLASS / Pack Group: Not regulated.
REFERENCE: 49CFR, IATA, IMDG.	IMDG HAZARD CLASS: Not regulated
UN / NA IDENTIFICATION NUMBER: None	RID/ADR Dangerous Goods Code: None
LABEL: None	TDG Class / Pack Group: None
HAZARD SYMBOLS: None	Hazard Identification Number (HIN): None

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.

SECTION 15 - REGULATORY INFORMATION

TSCA (USA - Toxic Substance Control Act): Ingredients are TSCA referenced.

SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):

Acute Health:	Yes	Chronic Health:	No
Fire:	No	Sudden Release of Pressure:	No
Reactive:	No		

SARA 313 REPORTABLE INGREDIENTS: No ingredients at reportable levels.

CERCLA (USA - Comprehensive Response Compensation and Liability Act): RQ = 24000 lbs. for product.

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: No listed components for product .

State Right to Know: CAS#1336-21-6 Ammonium hydroxide (<0.1%) is listed in : MA, NJ, PA.; CAS#102-71-6 Triethanolamine (2,2',2"-Nitrilotriethanol) is listed in MA, NJ, PA.; CAS#5131-66-8 Propylene glycol butyl ether is listed in NJ, PA. CAS#29911-28-2 Di(propylene glycol) butyl ether, mixture of isomers is listed in NJ, 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: D2B**



IDL (Canadian Ingredient Disclosure List): None listed.

DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List): Listed on DSL.

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

REVISION SUMMARY: New issue 8/16/2011 to USA (ANSI) CANADA (WHMIS) standards. --JTV---

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Seal-Krete Dura Shell (Part A)
PRODUCT NUMBERS: 228001 Dark Grey

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.