

Business Hours: 8:00 a.m - 5:00 p.m.
Emergency Telephone Number: 717/245-7000

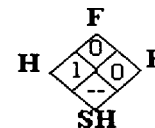
MATERIAL SAFETY DATA SHEET
CARLISLE SYNTEC INCORPORATED
1285 RITNER HIGHWAY
P.O. BOX 7000
CARLISLE, PA. 17013

For Transportation Emergencies Call
Chemtrec: 800/424-9300

MSDS Date: 2/13/98 MSDS Rev # 011 Supercedes All Previous Publications Page 1 of 2
SECTION I

PRODUCT NAME AND SYNONYMS: LIQUISEAL® - PART A

CHEMICAL FAMILY: Polybutadiene Homopolymer Sealant
PRODUCT USE: Waterproofing Sealant
FORMULA: Mixture



SECTION II(A) HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	CAS NUMBER	%	PEL (ppm)			SKIN DESIG-NATION	LD ₅₀ OF INGREDIENT (SPECIFY SPECIES & ROUTE) (mg/kg)	LC ₅₀ OF INGREDIENT (SPECIFY SPECIES) (ppm/4H)
			TWA	STEL	CEILING			
Carbon Black	1333-86-4	2-9	3.5	None	None	N/A	Not Available	Not Available
			mg/m ³ as dust					
Calcium Oxide	1305-78-8	2-4	5mg/m ³			N/A	Not Available	Not Available
Silica	63231-67-4	0-3	80mg/m ³ /%SiO ₂			N/A	Not Available	Not Available

N/A = Not Applicable H = Hours

SECTION II(B) ADDITIONAL INGREDIENTS (>3%)

Ingredients:		
Hydroxyl Terminated Polybutadiene	-	CAS # 69102-90-5
Hydrotreated Naphthenic Oil	-	CAS # 64742-52-5
Petroleum Hydrocarbon	-	CAS # 64742-93-4
Calcium Carbonate	-	CAS # 1317-65-3

SECTION III PHYSICAL DATA

Physical State	Odor And Appearance	VOC (grams/liter)	Odor Threshold (ppm)	Vapor Pressure (mm Hg)
Liquid	Black, very viscous liquid, slight aromatic odor.	Less than 15	Not Available	<0.001 @20°C
Vapor Density (AIR=1)	Evaporation Rate (nBuAc=1)	Boiling Point(°C)	Freezing Point (°C)	pH
Not Available	Not Applicable	>260°C (500°F)	Not Determined	Not Applicable
Specific Gravity	Coeff Water/Oil Dist	Solubility In Water	Volatiles By Wt (%)	Corrosivity
1.26	Not Available	Negligible	<1	N/A

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammability: Yes No X - If Yes, Under Which Conditions?

Flashpoint (°C) And Method: 254°C (490°F) C.O.C.
Autoignition Temperature (°C): Not Determined
Lower Flammable Limit (% By Vol): Not Determined
Upper Flammable Limit (% By Vol): Not Determined

Hazardous Combustion Products: Small quantities of butadiene, carbon dioxide, and carbon monoxide may be released during a fire.

EXPLOSION DATA:

Sensitivity To Impact: There is no evidence to show that this product is sensitive to physical shock.

Sensitivity To Static Discharge: There is no evidence to show that this product is sensitive to static discharge.

Extinguishing Media: In case of fire, use dry chemical, carbon dioxide, or foam. Water may not be effective as an extinguishing agent. Water fog or spray may be used to provide a smothering effect on fire and to cool fire-exposed containers and surrounding combustibles. Do not use a solid stream of water because it can scatter and spread the fire.

Special Fire Fighting Procedures: Do not enter fire area without proper protection. Heat may build pressure and rupture closed containers. Avoid direct personal contact with liquid even after fire is out.

Unusual Fire And Explosion Hazards: Heat from fire can generate flammable vapor when mixed with air and ignited. Vapors can burn in open or explode if confined. Vapors may be heavier than air and travel long distances along ground before igniting/flashing back to vapor source. Fine sprays, mists may be combustible at temperatures below normal flash point.

SECTION V - REACTIVITY DATA

Chemical Stability: Stable

Hazardous Polymerization: Will not occur.

Conditions To Avoid: Oxidizing conditions, extreme temperatures.

Incompatibility (Materials To Avoid): Strong oxidizing agents, strong acids.

Hazardous Decomposition Products: Small quantities of butadiene, along with carbon monoxide and carbon dioxide may be released during a fire.

*** Also see MSDS for Liquiseal® - Part B ***

===== SECTION VI - TOXICOLOGICAL PROPERTIES =====

Route Of Entry: Skin Contact X Skin Absorption X Eye Contact X Inhalation X Ingestion X

Effects Of Acute Exposure To Product: Product may irritate eyes, skin, and mucous membranes.

Effects Of Chronic Exposure: No chronic effects are known to exist.

<u>Exposure Limits</u>	<u>Irritancy Of Product</u>	<u>Sensitization To Product</u>	<u>Carcinogenicity</u>	
Carbon black TWA is 3.5 mg/m ³ as dust.	Slight eye and skin irritant.	Not expected	No evidence	
<u>Teratogenicity</u>	<u>Reproductive Toxicity</u>	<u>Mutagenicity</u>	<u>Synergistic Products</u>	<u>Tumorigenicity</u>
No evidence	No evidence	No evidence	None known	No evidence

===== SECTION VII - PREVENTIVE MEASURES =====

PERSONAL PROTECTIVE EQUIPMENT:

- Gloves: Hycron® or equivalent permeation resistant gloves recommended.
- Respirator: A NOISH approved respirator recommended if working in a tightly enclosed area.
- Eye: Safety glasses or goggles recommended.
- Footwear: Rubber boots or industrial shoes to protect feet from contact with product.
- Clothing: Long sleeves, long trousers to protect skin from adhesive contact.
- Other: Protective skin creams or emollients useful.

Engineering Controls (EG., Ventilation, Enclosed Process): Mechanical ventilation recommended if working in a tightly enclosed area.

Leak Or Spill Procedure: Absorb spill by applying sawdust, diatomaceous earth, clay, etc. Then pick up manually with shovel or broom.

Waste Disposal: Dispose of in accordance with all local, state, and federal regulations.

Handling Procedures And Equipment: Wash with soap and water before eating, drinking, or smoking. Launder contaminated clothing. Avoid skin contact - will stain. KEEP OUT OF REACH OF CHILDREN.

Storage Requirements: Store away from strong oxidizing agents and strong acids. Store between 33°F and 90°F. Keep from freezing.

Special Shipping Information: Not Regulated

===== SECTION VIII - FIRST AID MEASURES =====

- Specific Measures: Whenever possible, remove the worker from the source of contamination.
- Eye Contact - Immediately flush eyes with running water for at least 15 minutes. Get medical attention.
- Skin Contact - Immediately flush skin with running water and remove contaminated clothing. Wash exposed area with soap and water. Get medical attention.
- Ingestion - DO NOT induce vomiting. Get medical attention immediately.

===== SECTION IX - ADDITIONAL REGULATORY INFORMATION =====

===== SECTION X - PREPARATION INFORMATION =====

Prepared By: Accessory Products Group

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