

MATERIAL SAFETY DATA SHEET

HARDCAST PRODUCTS

CARLISLE COATINGS AND WATERPROOFING, INC.

Subsidiary of Carlisle Corporation

900 Hensley Lane Wylie, Texas 75098

Business Hours 8:00 am - 5:00 pm

Emergency Telephone Number

972/442-6545

FOR TRANSPORTATION EMERGENCIES

CALL CHEMTREC 800/424-9300

SECTION I

PRODUCT NAME & SYNONYMS	CHEMICAL FAMILY	HMIS RATINGS	
PT 302H	Silicone Rubber Sealant	Health	1
PRODUCT USE	FORMULA	Flammability	1
High Temperature Joint and Seam Sealant	Mixture	Reactivity	0

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	%		TWA		STEL	
				ppm	mg/m3	ppm	mg/m3
Methyl tris silane	22984-54-9	3-5				See comments	
Vinyl tris silane	2224-33-1	0-1				See comments	
Silica, Amorphous	7631-86-9	10	OSHA	20b	80c	-	-
			NIOSH	-	6	-	-
			ACGIH	-	-	-	-
			CANADA	-	2, 5a	-	-
Calcium Carbonate	1317-65-3	35-50	OSHA	-	15, 5a	-	-
			NIOSH	-	10, 5a	-	-
			ACGIH	-	10d	-	-
			CANADA	-	10, 5a	-	-

Comments: a. OSHA, NIOSH, CANADA-Respirable mass; Total mass respectively. b. OSHA-PEL table Z-3: Millions of particles per cubic foot of air. c. OSHA-PL Table Z-3: 80 mg/m3. d. ACGIH-inhalable (total) particulate matter containing no asbestos and <1% crystalline silica. Under normal conditions of use, no respirable silica particles should be released from this product. As a by-product of cure up to 4% Methylethylketoxime (CAS# 96-29-7) is formed on contact with water and humid air. Provide adequate ventilation to control exposures to the following guidelines: Vendor guideline TWA: 3 ppm; STEL: 10 ppm; AIHA WEEL TWA: 10 ppm.

SECTION IIB - ADDITIONAL INGREDIENTS (> 3%)

	N/E=Not established N/A=Not applicable
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SECTION III - PHYSICAL DATA

SPECIFIC GRAVITY 1.35	BOILING POINT Not applicable	% VOLATILES BY WT Less than 5%	VAPOR DENSITY (Air = 1) Not applicable
VAPOR PRESSURE Less than 5 mm @ 77 deg. F	FREEZING POINT Not applicable	SOLUBILITY IN WATER Less than 0.1%	EVAPORATION RATE Not applicable
pH Not applicable	PHYSICAL STATE Paste	ODOR THRESHOLD Oxime	CORROSIVITY Not corrosive
ODOR & APPEARANCE Red paste with characteristic oxime odor	VOC 68 GPL		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY Not Flammable	IF YES, UNDER WHAT CONDITIONS		
FLASHPOINT COC Above 212 deg F	AUTOIGNITION TEMPERATURE Not Determined	LOWER FLAMMABLE LIMIT Not Determined	UPPER FLAMMABLE LIMIT Not Determined

HAZARDOUS COMBUSTION PRODUCTS

Silicone Dioxide, Carbon Dioxide, Metal Oxides, Nitrogen Oxides, Formaldehyde and traces of incompletely Burned carbon

EXTINGUISHING MEDIA

Dry chemical, Carbon dioxide, Water mist, Foam

SPECIAL FIREFIGHTING PROCEDURES

Self contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

UNUSUAL FIRE & EXPLOSION HAZARDS

None

SECTION V - REACTIVITY DATA

This product is chemically stable. Hazardous polymerization will not occur.	CONDITIONS TO AVOID Exposure to air or moisture until ready to us. Keep away from excessive heat.
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INCOMPATIBILITY

Oxidizing material can cause a reaction. Air or moisture causes curing and release of methylethylketoxime vapors.

DECOMPOSITION PRODUCTS

Combustion may yield a variety of compounds such as CO, CO2, simple hydrocarbons, acids, aldehydes and ketones.

SECTION VI - TOXICOLOGICAL PROPERTIES

EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Eyes: Direct contact irritates slightly to moderately with redness and swelling.

Skin: A single short exposure (<24 hours) may irritate. Repeated prolonged contact (24 to 48 Hours) may irritate moderately.

Contains oximes which are possible skin sensitizers

Inhalation: Vapor exposure may cause drowsiness, injure blood, liver and may irritate eyes, nose and throat.

Ingestion: Small amounts transferred to the mouth by fingers during use should not injure. Swallowing large amounts may cause digestive comfort.

Comments: Methylethylketoxim is formed upon contact with water or humid air. Male rodents exposed to this vapor throughout their lifetime developed liver cancer. Additional testing is planned by the MEKO supplier to determine relevance to humans. Exposure level should be maintained as low as possible.

When heated to temperatures above 302 deg F, in the presnce of air, formaldehyde vapors may form. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer and an irritant to the eyes, nose, throat, skin and GI tract. Maintain safe vapor concentrations if heated above 302 deg. F.

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

Cured sealant is non hazardous.

EXPOSURE LIMITS Not established	SENSITIZATION TO PRODUCT Contains possible skin sensitizers	IRRITANCY OF PRODUCT None knowr	SYNERGISTIC PRODUCTS None knowr
CARCINOGENICITY No evidence	MUTAGENICITY & TUMORIGENICITY No evidence	REPRODUCTIVE TOXICITY No evidence	TERATOGENICITY No evidence

SECTION VII - PREVENTIVE MEASURES

EYE PROTECTION Safety glasses or goggles	GLOVES Rubber, butyl, neprene, or nitrile gloves are recommended
RESPIRATOR NIOSH approved respirator if TLV and PEL are exceeded.	FOOTWEAR Industrial shoes to protect feet from contact with adhesive

OTHER

Long sleeves, long trousers to protect skin from contact with adhesive

ENGINEERING CONTROLS

Product evolves Methylethylketoxime when exposed to water and humid air. Use respiratory protection unless adequate local or general exhaust ventilation is provided to maintain exposure guidelines.

LEAK OR SPILL PROCEDURE

Absorb in an inert material using chemical protective gloves and put in a container for disposal. Wash area with steam, solvents, or detergents and water.

WASTE DISPOSAL

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

HANDLING PROCEDURES & EQUIPMENT

Keep out of reach of children. Avoid contact with eyes and skin. Remove contact lenses before using sealant. Do not handle lenses until all sealant has been removed from fingertips, nails, cuticles. Residual sealant may remain on hands and transfer to lenses with possible severe eye irritation. Remove contaminated clothing as soon as practical. Wash with soap and water after use, especially before eating, smoking, or drinking. DO NOT TAKE INTERNALLY.

STORAGE REQUIREMENTS

Keep container closed when not in use. Store in a cool, dry place (less than 90°F).

SPECIAL SHIPPING INFORMATION

None

SECTION VIII - FIRST AID MEASURES

EYE CONTACT Immediately flush with large amounts of running water for at least 15 minutes. Get medical attention.
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SKIN CONTACT Wipe off and immediately wash skin with soap and running water. If irritation persists, contact a physician.
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INHALATION Move to fresh air. Provide oxygen if breathing is difficult. If necessary, give artificial respiration. If symptoms persist, seek medical attention.
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INGESTION May be harmful depending on quantity ingested. Get medical attention.
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SECTION IX - REGULATORY INFORMATION

This product does not contain the following toxic chemicals subject to the reporting requirements of SARA 313 of the Emergency Planning & Community Right-to-Know Act of 1986 & of 40CFR 372:

PA:

CHEMICAL NAME	CAS #	%
Silica, Amorphous	7631-86-9	10
Polydimethylsiloxane, Hydroxy terminated	70131-67-8	Proprietary
Methyl tris silane	22984-54-9	3-5

MA:

CHEMICAL NAME	CAS #	%
Silica, Amorphous	7631-86-9	10

NJ:

Silica, Amorphous Fumed	7631-86-9	10
Polydimethylsiloxane, Hydroxy terminated	70131-67-8	Proprietary
Polydimethylsiloxane	63148-62-9	Proprietary
Methyl tris silane	22984-54-9	3-5
Calcium Carbonate	1317-65-3	35-50

CANADA: WHIMS

Silica, Amorphous Fumed	7631-86-9	10
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SECTION X - PREPARATION INFORMATION

PREPARED BY R & D Group	DATE 6 June 2002	REVISION # #4	SUPERSEDES ALL PREVIOUS PUBLICATIONS
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NOTICE

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