

**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 304	Polyurethane Sealant	Health	2
PRODUCT USE	FORMULA	Flammability	2
Construction Sealant	Mixture	Reactivity	0

**SECTION IIA - HAZARDOUS INGREDIENTS**

HAZARDOUS INGREDIENTS	CAS #	%	
Xylene	1330-20-7	2-5	OSHA: TWA: 100 ppm
Diphenyl Methane Diisocyanate	101-68-8	<0.6	OSHA: CEILING: 0.20 ppm
			ACGIH: TWA: 0.005 ppm

**SECTION IIB - ADDITIONAL INGREDIENTS (> 3%)**

	CAS #	%	
Polyurethan Prepolymer, MDI based	68130-45-5	30-40	
Polyvinyl Chloride	9002-86-2	20-30	
Plasticizer	91082-17-6	20-30	
Titanium Dioxide	13463-67-7	0-4	
Iron Oxide	1317-61-9	0-1	
Aliphatic petroleum Distillate	64742-47-8	1-4	N/E=Not established N/A=Not applicable

**SECTION III - PHYSICAL DATA**

SPECIFIC GRAVITY 1.17	BOILING POINT Not applicable	% VOLATILES BY WT ~8%	VAPOR DENSITY (Air = 1) 3.66 (xylene)
VAPOR PRESSURE Not determined	FREEZING POINT Not applicable	SOLUBILITY IN WATER Not soluble	EVAPORATION RATE Not applicable
pH Not applicable	PHYSICAL STATE Paste	ODOR THRESHOLD Slight odor of Xylene	CORROSIVITY Not applicable
ODOR & APPEARANCE Gray, White paste with characteristic xylene odor.		VOC 61 GPL	

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

FLASHPOINT 58 deg C (136 deg F)	AUTOIGNITION TEMPERATURE 455 deg C (851 deg F)	LOWER FLAMMABLE LIMIT 1%	UPPER FLAMMABLE LIMIT 8%
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**HAZARDOUS COMBUSTION PRODUCTS**

Silicone Dioxide, Carbon Dioxide 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.

**UNUSUAL FIRE & EXPLOSION HAZARDS**

There is no evidence that this product is sensitive to physical shock or static discharge. Keep containers tightly sealed.

Isolate from sparks, heat and open flames.

**SECTION V - REACTIVITY DATA**

This product is chemically stable. Hazardous polymerization will not occur.	CONDITIONS TO AVOID Keep away from excessive heat, sparks, and open flames. Exposure to air or moisture until ready to use.
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**INCOMPATIBILITY**

Amines, alcohols, moisture, water should be avoided. Reaction is not hazardous if the container can vent to the atmosphere to prevent pressure build up.

**DECOMPOSITION PRODUCTS**

Oxides of Carbon and oxides of Nitrogen, Isocyanates.

**SECTION VI - TOXICOLOGICAL PROPERTIES****EFFECTS OF ACUTE EXPOSURE TO PRODUCT**

Eyes: Direct contact irritates the eyes. Symptoms include stinging, redness and tearing.

Skin: May cause irritation on skin. Symptoms may include redness and skin damage.

Inhalation: Frequent or prolonged inhalation may cause respiratory sensitization. Symptoms may include irritation of respiratory mucus membrane, drying of the throat, tightening of the chest and difficulty breathing and headaches. Reactions may be delayed.

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

Comments: Consult MSDS for Diphenyl Methane Diisocyanate (CAS# 101-68-8) for more detailed information.

## EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

Target Organs: Liver, Kidney, Nerve, Blood, reproductive, Lung, Skin and Heart

EXPOSURE LIMITS Xylene: OSHA-TWA = 100 ppm MDI: ACGIH TWA = 0.005 ppm	SENSITIZATION TO PRODUCT Sensitizer	IRRITANCY OF PRODUCT Irritant	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 Impervious gloves are recommended
RESPIRATOR Acid/organic vapor type. 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

Local exhaust adequate. Mechanical exhaust preferred.

## LEAK OR SPILL PROCEDURE

Absorb in an inert material and put in a container for disposal. Wash area with detergent and water.

## WASTE DISPOSAL

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

## HANDLING PROCEDURES &amp; 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 away from heat and moisture. Store in a cool, dry place (less than 90°F). Eliminate sources of ignition.

## 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.

## SKIN CONTACT

Wipe off and immediately wash skin with soap and running water. Do If irritation persists, contact a physician.

## INHALATION

Move to fresh air. Provide oxygen if breathing is difficult. If necessary, give artificial respiration. If symptoms persist, seek medical attention.

## INGESTION

May be harmful depending on quantity ingested. Get medical attention.

## SECTION IX - REGULATORY INFORMATION

***This product contains 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:***

CHEMICAL NAME	CAS #	%
Xylene	1330-20-7	2-5
Diphenyl Methane Diisocyanate	101-68-8	<0.6

***MA, MN, FL:***

CHEMICAL NAME	CAS #	%
Xylene	1330-20-7	2-5
Diphenyl Methane Diisocyanate	101-68-8	<0.6

***CANADA: WHIMS***

CHEMICAL NAME	CAS #	%
Xylene	1330-20-7	2-5

## SECTION X - PREPARATION INFORMATION

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