

MATERIAL SAFETY DATA SHEET

HARDCAST

Business Hours 8:00 am - 5:00 pm
Emergency Telephone Number
214/442-8545

Carlisle Coatings & Waterproofing Incorporated
Subsidiary of Carlisle Corporation
903 W. Kirby, P.O. Box 1239
Wylie, Texas 75098

FOR TRANSPORTATION EMERGENCIES
CALL CHEMTREC 800/424-9300

SECTION I

PRODUCT NAME & SYNONYMS <p style="text-align: center;">FTA-20</p>	CHEMICAL FAMILY <p style="text-align: center;">Acrylic / SBR Emulsion Based Adhesive</p>
PRODUCT USE <p style="text-align: center;">Tape and Duct Sealer</p>	FORMULA <p style="text-align: center;">Mixture</p>

SECTION II A - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	%	OSHA PEL (ppm)			Skin Designation	LD50 of Ingredient mg/kg	LC50 of Ingredient ppm/4H
			TWA	STEL	Ceiling			
Ammonia	7664-41-7	< 0.2	N/E	35	N/E	None	oral-rat 350	rat:2,000 LCLo
Ethylene Glycol	107-21-1	2-3	N/E	N/E	50	None	oral-hmn 766 LDL	hm:10,000 mg/m3 TCLo
Methanol	67-56-1	1-2	200	250	None	N/A	oral-rat 5628 mg/kg	1 HL LCLo 64,000

SECTION II B - ADDITIONAL INGREDIENTS (> 3%)

Hydrocarbon Resins	CAS # Proprietary	
Water	CAS # 7732-18-5	N/E=Not established N/A=Not applicable

SECTION III - PHYSICAL DATA

SPECIFIC GRAVITY ~1.0	BOILING POINT 212°F (100°C)	% VOLATILES BY WT 28%	VAPOR DENSITY (Air = 1) Not Established
VAPOR PRESSURE Not Established	FREEZING POINT 32°F (0°C)	SOLUBILITY IN WATER Soluble	EVAPORATION RATE Less than 1
pH 9.0 - 9.5	PHYSICAL STATE Liquid	ODOR THRESHOLD Not Established	CORROSIVITY Will corrode metal
VOC 35 grams / liter	ODOR & APPEARANCE Milky fluid with acrylic odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY Not Flammable	IF YES, UNDER WHAT CONDITIONS		
FLASHPOINT None	AUTOIGNITION TEMPERATURE Not Applicable	LOWER FLAMMABLE LIMIT Not Applicable	UPPER FLAMMABLE LIMIT Not Applicable

HAZARDOUS COMBUSTION PRODUCTS

Carbon monoxide, carbon dioxide, and/or nitrous oxides

EXTINGUISHING MEDIA

None needed for liquid. For dry film, use water, foam, Carbon dioxide, or dry chemical

SPECIAL FIREFIGHTING PROCEDURES

Follow normal fire fighting procedures. Firefighters should wear self-contained breathing apparatus, especially in enclosed areas. Cool drums and minimize vapor with water spray.

UNUSUAL FIRE & EXPLOSION HAZARDS

There is no evidence that this product is sensitive to physical shock or static discharge. Emulsion will not burn. Exposure of closed container to temperatures above the boiling point could cause pressure buildup and container rupture. Dry mastic is capable of burning.

SECTION V - REACTIVITY DATA

This product is chemically stable. Hazardous polymerization will not occur.	CONDITIONS TO AVOID Freezing or boiling.
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INCOMPATIBILITY

Materials that react with water such as concentrated acids, calcium carbide, sodium.

HAZARDOUS DECOMPOSITION PRODUCTS

Combustion may yield carbon dioxide, carbon monoxide, NOx, or ammonia.

SECTION VI - TOXICOLOGICAL PROPERTIES

CTS OF ACUTE EXPOSURE TO PRODUCT

Due to concentration, ingestion, skin contact, or inhalation of sufficient quantities to induce symptoms unlikely.
Eye Contact: This material may cause eye irritation. Direct contact with liquid may cause stinging, tearing, redness.
Skin Contact: This material is not expected to be a skin irritant. Skin absorption is unlikely. If left on skin, a film will form. Based on method of removal, slight irritation may result.
Ingestion of sufficient quantities to induce symptoms unlikely.
Ingestion: Low degree of oral toxicity. Ingestion of excess quantities may cause irritation of GI tract.

SECTION VI - TOXICOLOGICAL PROPERTIES

continued

Inhalation of sufficient quantities to induce symptoms unlikely.

Inhalation: Breathing high concentrations of vapors may cause nausea & irritation of nose, throat, & respiratory tract. Respiratory symptoms associated with preexisting lung disorders may be aggravated by exposure to this mat'l.

METHANOL: Toxic effects on CNS, headache, dizziness, intoxication, even death.

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

EXPOSURE LIMITS 10 mg/M3 - Ammonium Hydroxide	SENSITIZATION TO PRODUCT May cause skin sensitization in some individuals.	IRRITANCY OF PRODUCT May irritate skin, eyes, and respiratory tract.	SYNERGISTIC PRODUCTS None known
CARCINOGENICITY No evidence	MUTAGENICITY & TUMORIGENICITY No evidence	REPRODUCTIVE TOXICITY No evidence	TERATOGENICITY Ethylene Glycol: Dose related effects in mice and rats

SECTION VII - PREVENTIVE MEASURES

EYE PROTECTION
Glasses or goggles recommended.

GLOVES
Nitrile or equivalent

RESPIRATOR
Approved respirator if PEL exceeded

FOOTWEAR
Industrial shoes to prevent contact

OTHER
Long sleeves & long trousers to prevent skin contact. Protective creams are useful. Source of clean water should be available in the work area for flushing eyes and skin.

ENGINEERING CONTROLS
General & Local Exhaust must be sufficient to control the vapor concentrations in enclosed areas. Ventilation must be capable of maintaining emissions below the PEL at the point of use.

LEAK OR SPILL PROCEDURE
Avoid breathing vapors. Use self contained breathing apparatus in enclosed areas. Ventilate area. Contain & remove with inert absorbent material. Chemical goggles should be worn unless full facepiece is worn. NIOSH approved respirator appropriate when used with inadequate ventilation.

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

HANDLING PROCEDURES & EQUIPMENT
Keep out of reach of children. Launder contaminated clothing. Wash with soap and water after use, especially before eating or drinking.

STORAGE REQUIREMENTS
Store in a cool, dry location away from heat. Keep containers tightly closed and store with adequate ventilation. Do not pressurize, cut weld or grind the containers or empty containers which may contain residual product & vapors.

SPECIAL SHIPPING INFORMATION
Avoid freezing & subjecting this product to temperature extremes. Class 60 Item Number 4620 Sub 5

SECTION VIII - FIRST AID MEASURES

EYE CONTACT
Immediately flush with running water for at least 15 minutes. Get medical attention. See a physician if irritation persists.

SKIN CONTACT
Immediately flush skin with running water and remove contaminated clothing. Wash exposed area with soap & water. Get medical attention if irritation persists.

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

INGESTION
Do not induce vomiting. Get medical attention.

SECTION IX - SARA SECTION 313 SUPPLIER NOTIFICATION

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-to-Know Act of 1986 & of 40 CFR 372.

CHEMICAL NAME	CAS #	%	CHEMICAL NAME	CAS #	%
Ethylene Glycol	107-21-1	2-3			
Methanol	67-56-1	1-2			

SECTION X - PREPARATION INFORMATION

PREPARED BY Research & Development	DATE 28 February 1995	REVISION # # 8	SUPERSEDES ALL PREVIOUS PUBLICATIONS
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