



LiquaTile 1183

Topcoat
Part B Hardener MSDS

MATERIAL SAFETY DATA SHEET (LiquaTile 1183 Topcoat)

EMERGENCY CONTACT: (864) 680-1547

SECTION I. IDENTIFICATION

TRADE NAME: *LiquaTile*

PRODUCT CLASS: MODIFIED POLYAMINE

FOR INDUSTRIAL USE ONLY

PRODUCT TYPE: LT 1183 HARDENER

IMPORTANT: THIS MATERIAL WILL NOT BE SOLD FOR USE IN PRODUCTS FOR WHICH PROLONGED CONTACT WITH MUCOUS MEMBRANES, ABRADED SKIN, OR IMPLANTATION WITHIN THE HUMAN BODY IS SPECIFICALLY INTENDED. BECAUSE OF THE WIDE RANGE OF SUCH POTENTIAL USES, WOLVERINE COATINGS CORPORATION IS NOT ABLE TO RECOMMEND THIS MATERIAL AS SAFE AND EFFECTIVE FOR SUCH USES AND ASSUMES NO LIABILITY FOR ANY SUCH USES.

HAZARD STATEMENT: THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200. THIS PRODUCT IS CONSIDERED TO BE A HAZARDOUS CHEMICAL UNDER THAT STANDARD.

SECTION II. HAZARDOUS INGREDIENTS

EXPOSURE LIMITS

TOXICITY	INGREDIENTS	CAS NO.	%		OSHA		ACGIH		VP	LD ₅₀ g/kg
			BY WT.		PEL ppm	TLV(TWA) mg/m ³	mm @ 68°F			
	MODIFIED POLYAMINE	PROPRIETARY	20-25	dna	dna	dna	dna	na	dna	
	DIAMINOCYCLOHEXANE	694-83-7	7-10	dna	dna	dna	dna	na	dna	dna
	POLY (OXYPROPYLENE)									
	DIAMINE	9046-10-0	15-20	dna	dna	dna	dna	na	dna	dna
	BENZYL ALCOHOL	100-51-6	15-20	dna	dna	dna	dna	na	dna	dna
	TRIS-(DIMETHYLAMINO- METHYL) PHENOL	90-72-2	5-10	dna	dna	dna	dna	na	dna	dna
	ORGANOPHILIC CLAY									
	THIXOTROPE	121888-68-4	1-5	dna	dna	dna	dna	na	dna	dna
	ALUMINUM SILICATE	12269-78-2	25-30	dna	dna	dna	dna	na	dna	dna

SUSPECTED CANCER AGENT: NO

REF. RTEC, ACGIH, OSHA

** CALIFORNIA TITLE 26: 22-12000 (PROP 65)

NO COMPONENTS SUBJECT TO REPORTING REQUIREMENTS OF SARA, CERLA(40CFR)

SECTION III. PHYSICAL DATA

MATERIAL SAFETY DATA SHEET (LiquaTile 1183 Hardener)

APPEARANCE AND ODOR: STRAW COLORED, CLEAR LIQUID WITH AN AMINE ODOR
BOILING RANGE: NA **VAPOR DENSITY:** NONVOLATILE
VOLATILE CONTENT: 0 PERCENT **EVAPORATION RATE:** NONVOLATILE
WT/GAL: 8.7 LBS **SOLUBILITY IN WATER:** NA

SECTION IV. FIRE AND EXPLOSION DATA

FLAMMABILITY: OSHA: 3B **FLASH POINT:** >200 F
LEL: NA
DOT LABELING: CORROSIVE LIQUID **UN NO:** U.N. 1760

EXTINGUISHING MEDIA: FOAM, CARBON DIOXIDE, DRY CHEMICAL
SPECIAL FIRE FIGHTING PROCEDURES: FIREFIGHTERS SHOULD WEAR GOGGLES AND SELF-CONTAINED BREATHING APPARATUS TO AVOID INHALATION OF SMOKE OR VAPORS.
UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE KNOWN

SECTION V. REACTIVITY DATA

STABILITY: STABLE
CONDITIONS TO AVOID: HEAT, OPEN FLAME, ARC/SPARKS, MOISTURE
INCOMPATIBILITY: STRONG OXIDIZERS, ACIDS, ALKALIES, AND EPOXY RESINS (UNCONTROLLED)
HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE, SILICONE OXIDE
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VI. HEALTH HAZARDOUS DATA

ENTRY ROUTES: INHALATION AND SKIN CONTACT
MEDICAL CONDITIONS AGGRAVATED: RESPIRATORY (NASAL AND LUNG IRRITATION).
EXPOSURE EFFECTS: VAPOR AND SPRAY MIST CAN BE HARMFUL. IRRITATING TO SKIN, NASAL PASSAGES, EYES AND RESPIRATORY SYSTEM. EXCESSIVE INHALATION CAN CAUSE HEADACHE, NAUSEA, DIZZINESS, OR ASPHYXIATION. CAN BE HARMFUL OR FATAL IF SWALLOWED. CAN BE HARMFUL IF INHALED OR ABSORBED THROUGH THE SKIN. OVEREXPOSURE CAN CAUSE SEVERE EYE AND SKIN BURNS AND DESENSITIZATION AND/OR DERMATITIS.

EMERGENCY AND FIRST AID PROCEDURES:

OVEREXPOSURE TO VAPOR, SPRAY MIST – PROVIDE FRESH AIR; IF BREATHING LABORED, GIVE OXYGEN OR ARTIFICIAL RESPIRATION. FOR SKIN CONTACT – WASH THOROUGHLY WITH SOAP AND WATER. FOR EYES, FLUSH IMMEDIATELY WITH WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION. IF SWALLOWED, DRINK 1 OR 2 GLASSES OF WATER TO DILUTE. DO NOT INDUCE VOMITING. CONSULT PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. TREAT SYMPTOMATICALLY.

SECTION VII. SPILL OR LEAK PROCEDURES

SPILL PROCEDURES: AVOID BREATHING OF VAPORS OR DUST. USE ABSORBENT CLEANUP MATERIAL, OR SWEEP UP. PLACE IN SEPARATE CONTAINER. KEEP OUT OF PUBLIC SEWERS AND WATERWAYS. IF ENTRY IS THREATENED OR OCCURS, NOTIFY LOCAL AUTHORITIES. ELIMINATE ALL SOURCES OF IGNITION.
WASTE DISPOSAL METHODS: IN SEPARATE, CLOSED METAL CONTAINER IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.
EPA WASTE NO: NONE

SECTION VIII. SPECIAL PROTECTION INFORMATION

MATERIAL SAFETY DATA SHEET (LiquaTile 1183 Hardener)

VENTILATION: SUFFICIENT VENTILATION, IN VOLUME AND PATTERN, SHOULD BE PROVIDED TO KEEP AIR CONTAMINANT CONCENTRATIONS BELOW TLV LIMIT. REMOVE WELDING AND FLAME CUTTING DECOMPOSITION PRODUCTS. REFER TO 29 CFR, OSHA 1910, 1915, 1916 FOR COATING OPERATIONS.

PROTECTIVE GLOVES: WEAR IMPERVIOUS GLOVES (NEOPRENE OR OTHER SUITABLE MATERIAL).

EYE PROTECTION: WEAR SPLASH-PROOF CHEMICAL RESISTANT GOGGLES OR FACE SHIELD.

RESPIRATORY PROTECTION: NIOSH/MSHA CERTIFIED RESPIRATOR. FOR SPECIFIC CONDITIONS REFER TO NIOSH POCKET GUIDE TO CHEMICAL HAZARDS, DHEW NO. 78-210. USE AIR-LINE RESPIRATORS IN CONFINED OR RESTRICTED VENTILATION AREAS, OR WITH POLYURETHANE OR ISOCYANATES. REFER TO 29 CFR, OSHA PARTS 1910, 1915, AND 1916 FOR COATING OPERATIONS.

OTHER PROTECTIVE EQUIPMENT FOR APPLICATION OR CLEAN-UP: FULL PROTECTIVE CLOTHING. SPARK PROOF EQUIPMENT.

HYGENIC PRACTICES: WASH THOROUGHLY BEFORE EATING, SMOKING, OR USING WASHROOM. LAUNDRER CONTAMINATED CLOTHING BEFORE REUSE.

SECTION IX. SPECIAL PRECAUTIONS

HANDLING, SHIPPING, AND STORING PRECAUTIONS: KEEP CONTAINER CLOSE, UPRIGHT WHEN NOT IN USE. STORE IN COOL, DRY, WELL-VENTILATED AREA. AVOID STORAGE TEMPERATURE ABOVE 100 F.

OTHER PRECAUTIONS: DO NOT TAKE INTERNALLY. AVOID PROLONGED BREATHING OF VAPORS, OR SPRAY MIST, OR CONTACT WITH SKIN AND EYES. DO NOT WELD OR FLAME CUT AN EMPTY CONTAINER. GROUND CONTAINERS WHEN POURING.

SECTION X. REGULATORY INFORMATION

DOT CLASS: PAINT OR PAINT RELATED PRODUCT

DOT NUMBER: UN 3066

RCRA STATUS: NOT A HAZARDOUS WASTE UNDER RCRA (40 CFR 261)

CERCLA STATUS: NOT LISTED

SARA/TITLE III-"TOXIC CHEMICAL LIST: THIS PRODUCT DOES NOT CONTAIN A TOXIC CHEMICAL FOR ROUTINE ANNUAL "TOXIC CHEMICAL RELEASE REPORTING" UNDER SECTION 313 (40 CFR 372)

OSHA STATUS: THIS MSDS HAS BEEN PREPARED IN COMPLIANCE WITH FEDERAL OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200. THIS PRODUCT IS CONSIDERED TO BE A HAZARDOUS CHEMICAL UNDER THAT STANDARD.

TSCA INVENTORY STATUS: CHEMICAL COMPONENTS LISTED ON TSCA INVENTORY.

ISSUE DATE: 05/2002

FOR FURTHER INFORMATION, PLEASE CONTACT PRODUCT SAFETY DIRECTOR.

THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN IS, TO THE BEST OF OUR KNOWLEDGE AND BELIEF, ACCURATE. HOWEVER, SINCE THE CONDITIONS OF HANDLING AND USE ARE BEYOND OUR CONTROL, WE MAKE NO GUARANTEE OF RESULTS, AND ASSUME NO LIABILITY FOR DAMAGES INCURRED BY USE OF THIS MATERIAL. ALL CHEMICALS MAY PRESENT UNKNOWN HEALTH HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS THAT EXIST. FINAL DETERMINATION OF SUITABILITY OF THE CHEMICAL IS THE SOLE RESPONSIBILITY OF THE USER. USERS OF ANY CHEMICAL SHOULD SATISFY THEMSELVES THAT THE CONDITIONS AND METHODS OF USE ASSURE THAT THE CHEMICAL IS USED SAFELY. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER NATURE, ARE MADE HEREUNDER WITH RESPECT TO THE INFORMATION CONTAINED HEREIN, OR TO THE CHEMICAL TO WHICH THE USER REFERS.

LD50 = ORAL, RAT; LC50 = INHALATION, RAT; dna = DATA NOT AVAILABLE; NA = NOT APPLICABLE