
MATERIAL SAFETY DATA SHEET (LiquaTile 1184V-005 TopCoat Hardener)

EMERGENCY CONTACT: (864) 680-1547

SECTION I. IDENTIFICATION

PRODUCT NAME: *LiquaTile 1184V-005 TopCoat Hardener*

CHEMICAL FAMILY: FORMULATED MODIFIED AMINE.

PRODUCT TYPE: EPOXY 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

SPECIFIC CHEMICAL NAME: FORMULATED MODIFIED POLYAMINE COMPOSITION.
SPECIFIC IDENTITY OF THIS COMPONENT WITHHELD AS TRADE SECRET.

CAS# - CONFIDENTIAL

EXPOSURE LIMITS:

OSHA PEL - NOT ESTABLISHED

ACGIH TLV - NOT ESTABLISHED

CARCINOGENICITY: THIS CHEMICAL HAS NOT BEEN REVIEWED FOR CARCINOGENICITY BY NTP., IARC, OR OSHA.

SPECIFIC IDENTITY OF THIS COMPONENT WITHHELD TRADE SECRET:

GENERIC: ALIPHATIC AMINE

CAS # - CONFIDENTIAL

EXPOSURE LIMITS:

OSHA PEL - NOT ESTABLISHED

ACGIH TLV - NOT ESTABLISHED

CARCINOGENICITY: THIS CHEMICAL HAS NOT BEEN REVIEWED FOR CARCINOGENICITY BY NTP., IARC, OR OSHA.

SPECIFIC IDENTITY OF THIS COMPONENT WITHHELD TRADE SECRET:

GENERIC: ALCOHOL SOLUTION

CAS # - CONFIDENTIAL

EXPOSURE LIMITS:

OSHA PEL - NOT ESTABLISHED

ACGIH TLV - NOT ESTABLISHED

CARCINOGENICITY: THIS CHEMICAL HAS NOT BEEN REVIEWED FOR CARCINOGENICITY BY NTP., IARC, OR OSHA.

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SECTION III. PHYSICAL DATA

APPEARANCE AND ODOR: TRANSLUCENT LIQUID, AMINE ODOR.
DECOMPOSITION TEMP: > 200 C
PERCENT VOLATILE: NIL
SOLUBILITY IN WATER: INSOLUBLE
PH: ALKALINE
SPECIFIC GRAVITY: > 1.0

SECTION IV. FIRE AND EXPLOSION DATA

FLASHPOINT: > 200 F (CLOSED CUP)
EXTINGUISHING MEDIA: CARBON DIOXIDE, FOAM, DRY CHEMICAL, WATER SPRAY.
SPECIAL FIRE FIGHTING PROCEDURES: USE SELF-CONTAINED BREATHING APPARATUS.
UNUSUAL FIRE AND EXPLOSION HAZARDS: DECOMPOSITION AND COMBUSTION PRODUCTS MAY BE TOXIC.

SECTION V. REACTIVITY DATA

STABILITY: STABLE
CONDITIONS TO AVOID: HIGH TEMPERATURES
INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZERS AND ACIDS
HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE AND/OR CARBON DIOXIDE, NITROGEN OXIDES AND COMPOUNDS.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION VI. HEALTH HAZARDOUS DATA

PRIMARY ROUTES OF ENTRY: EYE CONTACT, SKIN CONTACT, INGESTION, SKIN ABSORPTION
EXPOSURE STANDARDS: NO STANDARDS ESTABLISHED FOR THE PRODUCT. MAINTAIN AIR CONTAMINANT CONCENTRATIONS IN THE WORKPLACE AT THE LOWEST FEASIBLE LEVELS.
HEALTH HAZARDS: HARMFUL IF SWALLOWED, MILD SKIN IRRITANT, MAY CAUSE SKIN SENSITIZATION.
TARGET ORGANS: SKIN
EFFECTS OF OVEREXPOSURE: CONTACT WITH THE SKIN MAY CAUSE DRYNESS (DEFATTING), ITCHING AND/OR RASH. CONTACT WITH TSKIN CAUSES MILD IRRITATION AND DISCOMFORT. INHALATION OF MISTS MAY CAUSE IRRITATION IN THE RESPRIATORY TRACT. PRODUCT IS ABSORBED THROUGHT THE SKIN AND MAY CAUSE NAUSEA, HEADACHE AND GENERAL DISCOMFORT.
POSSIBLE LONGER TERM EFFECTS: REPEATED AND/OR PROLONGED EXPOSURE MAY CAUSE ALLERGIC REACTION OR SENSITIZATION. REPEATED AND/OR PROLONGED EXPOSURES MAY RESULT IN: ADVERSE SKIN EFFECTS (SUCH AS DEFATTING, RASH, OR IRRITATION), ADVERSE SKIN EFFECTS (SUCH AS RASH, IRRITATION, OR CORROSION). DRYNESS OF NASAL PASSAGES MAY BE EXPERIENCED WHEN MATERIAL IS INHALED OVER LONG PERIODS OF TIME.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: SKIN DISORDERS AND ALLERGIES
CARCINOGENS UNDER OSHA, ACGIH, NTP, IARC, OTHER: THIS PRODUCT CONTAINS NO CARCINOGENS IN CONCENTRATIONS OF 0.1 % OR GREATER.

EMERGENCY AND FIRST AID PROCEDURES:

EYES - FOR EYE CONTACT, IMMEDIATELY FLUSH EYES FOR AT LEAST FIFTEEN MINUTES WITH RUNNING WATER. HOLD EYELIDS APART TO ENSURE RINSING OF THE ENTIRE EYE SURFACE AND LIDS WITH WATER. IF PHYSICIAN IS NOT AVAILABLE, FLUSH FOR AN ADDITIONAL FIFTEEN MINUTES. GET IMMEDIATE MEDICAL ATTENTION.

SKIN - FOR SKIN CONTACT, IMMEDIATELY REMOVE CONTAMINATED CLOTHING AND SHOES UNDER A SAFETY SHOWER. WASH AFFECTED AREAS THOROUGHLY WITH PLENTY OF WATER AND SOAP FOR AT LEAST FIFTEEN MINUTES. GET IMMEDIATE MEDICAL ATTENTION. DISCARD OR DECONTAMINATE CLOTHING BEFORE RE-USE, AND DESTROY CONTAMINATED SHOES.

INGESTION - IF SWALLOWED, CALL A PHYSICIAN IMMEDIATELY. REMOVE STOMACH CONTENTS BY GASTRIC SUCTION OR INDUCE VOMITING ONLY AS DIRECTED BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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INHALATION - IF INHALED, REMOVE FROM AREA TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. GET IMMEDIATE MEDICAL ATTENTION IF BREATHING IS DIFFICULT, TRANSPORT TO MEDICAL CARE AND, IF AVAILABLE, GIVE SUPPLEMENTAL OXYGEN.

OTHER - PROMPTLY REMOVE WET CONTAMINATED NON-IMPERVIOUS CLOTHING. WASH BEFORE RE-USE.

SECTION VII. SPILL OR LEAK PROCEDURES

SPILL PROCEDURES: AVOID ALL PERSONAL CONTACT. TAKE UP WITH ABSORBENT MATERIAL. SHOVEL INTO CLOSABLE CONTAINER. FLUSH CONTAMINATED AREA WITH WATER.

WASTE DISPOSAL METHODS: DISPOSE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION VIII. SPECIAL PROTECTION INFORMATION

VENTILATION: GOOD GENERAL MECHANICAL VENTILATION AND LOCAL EXHAUST IS REQUIRED.

PROTECTIVE GLOVES: WEAR IMPERVIOUS GLOVES.

EYE PROTECTION: WEAR SPLASH-PROOF CHEMICAL RESISTANT GOGGLES.

RESPIRATORY PROTECTION: USE OSHA, NIOSH APPROVED AMINE ORGANIC CARTRIDGE VAPOR RESPIRATOR.

OTHER PROTECTIVE EQUIPMENT: WEAR PROTECTIVE EQUIPMENT TO PREVENT EXPOSURE AND PERSONAL CONTACT.

SECTION IX. SPECIAL PRECAUTIONS

HMIS CODE:

HEALTH: 2 FIRE: 1 REACTIVITY: 0

HANDLING, SHIPPING, AND STORING PRECAUTIONS: AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING VAPOR, MIST, OR SPRAY. USE ONLY WITH GOOD VENTILATION. INDIVIDUALS SHOULD WASH THOROUGHLY AFTER HANDLING. STORE IN DRY AREA IN CLOSED CONTAINERS. FOR INDUSTRIAL USE ONLY.

FIRST AID: IN CASE OF CONTACT WITH:

EYES- IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST FIFTEEN MINUTES. CALL A PHYSICIAN.

SKIN- FLUSH SKIN WITH PLENTY OF WATER.

CLOTHING- WASH CLOTHING BEFORE REUSE.

SECTION X. REGULATORY INFORMATION

DOT CLASS: PAINT OR PAINT RELATED PRODUCT RESIN COMPOUND – Not DOT Regulated

DOT NUMBER: Not DOT Regulated

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 HAZZARD COMMUNICATION STANDARD 29 CFR 1910.1200. THIS PRODUCT IS NOT CONSIDERED TO BE A HAZARDOUS CHEMICAL UNDER THAT STANDARD.

TSCA INVENTORY STATUS: CHEMICAL COMPONENTS LISTED ON TSCA INVENTORY.

ISSUE DATE: 07/2004

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

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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.