



HIGH TEMPERATURES AND FIRE CONDITIONS MAY CAUSE RAPID AND UNCONTROLLED POLYMERIZATION, WHICH CAN RESULT IN EXPLOSIONS AND THE VIOLENT RUPTURE OF STORAGE VESSELS OR CONTAINERS. DO NOT DIRECT A STREAM OF WATER OR FOAM INTO HOT, BURNING POOLS AS THIS MAY CAUSE FROTHING AND INCREASE FIRE INTENSITY.

**SPECIAL FIREFIGHTING PROCEDURES:**

KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, SPARKS, ELECTRICAL EQUIPMENT AND OPEN FLAME. AVOID BREATHING GASES, VAPORS, FUMES OR DECOMPOSITION PRODUCTS DURING A FIRE. PERSONNEL INVOLVED IN A FIRE SHOULD WEAR FULL PROTECTIVE EQUIPMENT, INCLUDING SELF-CONTAINED RESPIRATORY EQUIPMENT. WATER SPRAY MAY BE USED TO COOL UNRUPTURED CLOSED CONTAINERS TO PREVENT PRESSURE BUILDUP AND POSSIBLE AUTOIGNITION OR EXPLOSION WHEN EXPOSED TO EXTREME HEAT. IF WATER IS USED, FOG NOZZLES ARE PREFERABLE.

=====SECTION V - HEALTH HAZARD DATA=====

**THRESHOLD LIMIT VALUE: SEE SECTION II**

**INHALATION HEALTH RISKS AND SYMPTOMS OF ACUTE EXPOSURE:**

SHORT TERM HEALTH EFFECTS ARE NOT EXPECTED FROM EXPOSURE TO VAPORS GENERATED AT AMBIENT TEMPERATURES. INHALATION OF SPRAY MISTS AT AMBIENT TEMPERATURES CAN BE IRRITATING TO THE RESPIRATORY SYSTEM. INHALATION OF VAPORS FROM THE HEATED PRODUCT CAN CAUSE IRRITATION TO THE RESPIRATORY SYSTEM AND MAY RESULT IN HEADACHES, NAUSEA, AND DIZZINESS.

**EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:**

CONTACT OF LIQUID WITH EYES MAY CAUSE IRRITATION, SEEN AS MILD TO MODERATE REDNESS AND SWELLING OF THE CONJUNCTIVA. VAPORS FROM HEATED PRODUCT MAY CAUSE EYE IRRITATION.

**SKIN CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:**

THIS PRODUCT CONTAINS MATERIALS THAT MAY CAUSE MODERATE REDDENING AND SWELLING OF THE SKIN AND POSSIBLE SENSITIZATION. AVOID SKIN CONTACT IN SUNLIGHT.

REPEATED OR PROLONGED SKIN CONTACT MAY CAUSE IRRITATION AND BLISTER FORMATION (BURNS). SINCE IRRITATION MAY NOT OCCUR IMMEDIATELY, CONTACT CAN GO UNNOTICED.

**INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:**

SLIGHTLY TO MODERATELY TOXIC. MAY CAUSE ABDOMINAL DISCOMFORT, NAUSEA, AND VOMITING.

**CHRONIC HEALTH HAZARDS:**

PROLONGED OR REPEATED EXPOSURE TO VAPOR GENERATED AT HIGH TEMPERATURES, OR TO AEROSOLS OR MIST GENERATED UNDER AMBIENT CONDITIONS, MAY RESULT IN THE INHALATION OF HARMFUL AMOUNTS OF MATERIAL, WHICH MAY CAUSE LIVER AND KIDNEY EFFECTS AND RESPIRATORY IRRITATION.

**CARCINOGENICITY:**

THIS PRODUCT CONTAINS CRYSTALLINE SILICA, WHICH IN ITS DRY FORM IS CONSIDERED A HAZARD BY INHALATION. SILICA IS THE MOST COMMON MINERAL ON THE FACE OF THE EARTH AND IS A PRIMARY CONSTITUENT OF BEACH SAND. ALMOST ALL NATURAL MATERIALS CONTAIN CRYSTALLINE SILICA, AND AT LEVELS OF 0.1% OR MORE, REQUIRE AN OSHA WARNING. CRYSTALLINE SILICA HAS BEEN CLASSIFIED BY IARC AS GROUP 2A (PROBABLY CARCINOGENIC TO HUMANS). THIS CLASSIFICATION IS BASED ON THE FINDINGS OF LABORATORY ANIMAL STUDIES THAT WERE SUFFICIENT AND DATE FROM EPIDEMIOLOGICAL (HUMAN) STUDIES THAT WERE CONSIDERED LIMITED FOR CARCINOGENICITY. NTP HAS CLASSIFIED CRYSTALLINE SILICA AS AN ANTICIPATED CARCINOGEN. ACGIH STATES THAT CRYSTALLINE SILICA HAS BEEN IDENTIFIED BY OTHER SOURCES AS A SUSPECTED OR CONFIRMED HUMAN CARCINOGEN. OSHA HAS NOT CLASSIFIED CRYSTALLINE SILICA. CRYSTALLINE SILICA IS ALSO A KNOWN CAUSE OF SILICOSIS, A NON-CANCEROUS LUNG DISEASE. IT IS IMPORTANT THAT THE PROPER RESPIRATORY EQUIPMENT BE WORN DURING SPRAY APPLICATION OR SANDING OF THIS PRODUCT WHEN THE TLV'S, AS SHOWN IN SECTION II, ARE EXCEEDED.

**EMERGENCY FIRST AID PROCEDURES:**

INHALATION: REMOVE TO FRESH AIR. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION AND GET IMMEDIATE MEDICAL ATTENTION. EYE CONTACT: IMMEDIATELY FLUSH EYES WITH COPIOUS QUANTITIES OF RUNNING WATER FOR 15 MINUTES, LIFTING THE UPPER AND LOWER EYELIDS OCCASIONALLY, AND GET IMMEDIATE MEDICAL ATTENTION. SKIN CONTACT: REMOVE CONTAMINATED CLOTHING AND SHOES. IMMEDIATELY WASH AFFECTED AREA WITH SOAP AND WATER. IF IRRITATION PERSISTS AFTER WASHING, GET MEDICAL ATTENTION (EFFECTS CAN BE DELAYED 24-48 HOURS). WASH CONTAMINATED CLOTHING BEFORE REUSE AND DISCARD ANY LEATHER ARTICLES SUCH AS SHOES.

INGESTION: IF SWALLOWED, GET MEDICAL HELP IMMEDIATELY. IF PERSON IS CONSCIOUS, GIVE 2 GLASSES OF WATER BUT DO NOT INDUCE VOMITING UNLESS DIRECTED BY A PHYSICIAN. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSIVE PERSON. HAVE PHYSICIAN DETERMINE WHETHER VOMITING OR STOMACH EVACUATION IS NECESSARY.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:**

NOT KNOWN.

=====SECTION VI - REACTIVITY DATA=====

**STABILITY:**

NORMALLY STABLE AT NORMAL ROOM TEMPERATURE.

**CONDITIONS TO AVOID:**

AVOID EXPOSURE TO ULTRAVIOLET LIGHT, SUNLIGHT, STRONG BASES, PEROXIDES, STORING AT TEMPERATURES ABOVE 100F, AND EXPOSURE TO HIGH HEAT.

**INCOMPATIBILITY (MATERIALS TO AVOID):**

PEROXIDES, AMINES, COPPER, COPPER ALLOY, CARBON STEEL, IRON, RUST, AND STRONG ACIDS, BASES AND OXIDIZING AGENTS.

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS:**

DECOMPOSITION MAY PRODUCE SMOKE, ACRID FUMES, CARBON DIOXIDE AND/OR CARBON MONOXIDE, AND POSSIBLY OTHER TOXIC VAPORS.

**HAZARDOUS POLYMERIZATION:**

MAY OCCUR IF EXPOSED TO ULTRAVIOLET LIGHT, SUNLIGHT, STRONG BASES, PEROXIDES, OR HIGH TEMPERATURES. UNCONTROLLED POLYMERIZATION MAY CAUSE RAPID EVOLUTION OF HEAT AND INCREASED PRESSURE THAT COULD RESULT IN VIOLENT RUPTURE OF SEALED CONTAINERS.

=====SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE=====

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

SPONTANEOUS POLYMERIZATION CAN OCCUR. ELIMINATE IGNITION SOURCES AND VENTILATE AREA. WEAR APPROPRIATE PROTECTIVE EQUIPMENT INCLUDING EYE AND SKIN PROTECTION. ABSORB WITH INERT MATERIAL AND TRANSFER TO AN APPROPRIATE CONTAINER FOR DISPOSAL. FLUSH AREA WITH WATER. PREVENT FLUSHING OR SPILLED MATERIAL FROM ENTERING WATERWAYS, INCLUDING SEWERS, STORM DRAINS, SURFACE WATER AND SOIL.

IN THE UNITED STATES, SPILLS OR RELEASES TO THE ENVIRONMENT MAY BE REPORTABLE TO THE NATIONAL RESPONSE CENTER (1-800-424-8802).

**WASTE DISPOSAL METHOD:**

DISPOSE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. INCINERATE IN APPROVED FACILITY. DO NOT INCINERATE CLOSED CONTAINERS.

=====SECTION VIII - CONTROL MEASURES=====

**RESPIRATORY PROTECTION:**

IN APPLICATIONS WHERE AEROSOLS OR VAPORS ARE EMITTED, A FULL FACE ORGANIC VAPOR CARTRIDGE RESPIRATOR WITH A PARTICULATE PRE-FILTER SHOULD BE WORN. IN CONFINED AREAS AND IN EMERGENCY SITUATIONS, USE A SELF-CONTAINED BREATHING APPARATUS OR OTHER AIR SUPPLIED FULL FACE RESPIRATOR.

**VENTILATION:**

LOCAL EXHAUST IS RECOMMENDED TO CONTROL EXPOSURE WHICH MAY RESULT FROM OPERATIONS GENERATING AEROSOLS AND HOT OPERATIONS GENERATING VAPORS. MECHANICAL EXHAUST IS NOT RECOMMENDED TO CONTROL EXPOSURE UNDER THESE CONDITIONS.

**PROTECTIVE GLOVES:**

IMPERVIOUS GLOVES (NEOPRENE) SHOULD BE WORN TO PROTECT AGAINST SKIN CONTACT. A COMBINATION OF BARRIER CREAM, APPLIED BEFORE EXPOSURE, AND GLOVES IS RECOMMENDED. DO NOT APPLY CREAM AFTER EXPOSURE.

**EYE PROTECTION:**

IF A SPLASHING HAZARD EXISTS OR IF THERE IS POTENTIAL EYE CONTACT, WEAR SAFETY EYEWEAR SUCH AS CHEMICAL GOGGLES OR FACE SHIELDS TO PREVENT CONTACT OF LIQUID WITH EYES. EYE FLUSHING EQUIPMENT SHOULD BE IMMEDIATELY AVAILABLE.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:**

IN SITUATIONS WHERE CONTACT CAN OCCUR, USE A FACE SHIELD, IMPERVIOUS BODY COVERING, AND BOOTS. A SAFETY SHOWER AND EYE WASH FACILITY SHOULD BE AVAILABLE.

=====SECTION IX - SPECIAL PRECAUTIONS=====

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:**

DO NOT STORE ABOVE 100 DEG F. KEEP CONTAINERS TIGHTLY COVERED AND STORE UPRIGHT TO PREVENT LEAKAGE. DO NOT STORE OR USE NEAR HEAT OR OPEN FLAME. AVOID PROLONGED EXPOSURE TO LIGHT.

**OTHER PRECAUTIONS:**

CAUTION - OSHA COMBUSTIBLE LIQUID - CLASS III B; DOT - NOT REGULATED. KEEP AWAY FROM HEAT AND FLAME. WARNING: CONTACT WITH SKIN MAY CAUSE MODERATE SKIN INJURY SUCH AS REDDENING AND SWELLING AND SENSITIZATION. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. WEAR PROPER PROTECTIVE EQUIPMENT WHEN HANDLING OR WORKING WITH THIS MATERIAL. KEEP CONTAINER CLOSED WHEN NOT IN USE. BREATHING OF MIST OR VAPOR FROM HEATED MATERIAL MAY BE HARMFUL. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. DO NOT TAKE INTERNALLY. DO NOT SAND, FLAME CUT, BRAZE OR WELD DRY COATING WITHOUT PROPER PROTECTIVE EQUIPMENT OR SUFFICIENT VENTILATION. FOR INDUSTRIAL USE ONLY.

**SPECIAL PRECAUTIONS:**

\*N/A

**MISCELLANEOUS PRECAUTIONS:**

EMPTY CONTAINERS MAY RETAIN PRODUCT RESIDUE AND/OR VAPORS. ALWAYS OBEY HAZARDOUS WARNINGS AND HANDLE EMPTY CONTAINERS AS IF THEY WERE FULL.

=====SECTION X - DISCLAIMER=====

**SARA 313 INFORMATION:**

\*N/A

**FOOTNOTE:**

THIS PRODUCT CONTAINS ACRYLATED EPOXY, ACRYLIC MONOMERS, AND PHOTOINITIATOR RESINS WHICH ARE NOT LISTED IN THE HAZARDOUS INGREDIENTS OF OSHA 29CFR SECTION 1910.1200(d)(3).

M A T E R I A L   S A F E T Y   D A T A   S H E E T

UV CURABLE CLEAR DTM COATING

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USER'S RESPONSIBILITY: THE RESPONSIBILITY TO PROVIDE A SAFE WORKPLACE REMAINS WITH THE USER. THE USER SHOULD CONSIDER THE HEALTH HAZARDS AND SAFETY INFORMATION CONTAINED HEREIN AS A GUIDE AND SHOULD TAKE THOSE PRECAUTIONS REQUIRED IN AN INDIVIDUAL OPERATION TO INSTRUCT EMPLOYEES AND DEVELOP WORK PRACTICE PROCEDURES FOR A SAFE WORK ENVIRONMENT. IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS. TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE. HOWEVER, STRATHMORE PRODUCTS, INC., ASSUMES NO LIABILITY WHATSOEVER FOR THE ACCURACY, RELIABILITY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN. FINAL DETERMINATION OF SUITABILITY OF ANY MATERIAL IS THE SOLE RESPONSIBILITY OF THE USER. 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 MATERIALS MAY PRESENT UNKNOWN HEALTH AND SAFETY HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS WHICH EXIST.