



MURSATT CHEMICALS LIMITED
11 REGALCREST COURT
WOODBIDGE, ONTARIO, CANADA, L4L 8P3
(905)-850-8444

PRODUCT: TILE-X

CODE: MUR0016

SECTION 01: IDENTIFICATION

PRODUCT CODE..... MUR0016
 PRODUCT IDENTIFIER..... TILE-X
 OTHER MEANS OF IDENTIFICATION..... N.AV.
 RECOMMENDED USE AND N.AV.
 RESTRICTIONS ON USE
 SUPPLIER IDENTIFIER..... MURSATT CHEMICALS LIMITED
 11 REGALCREST COURT
 WOODBRIDGE, ONTARIO
 CANADA
 L4L 8P3
 EMERGENCY PHONE NO..... CANUTEC (613)-996-6666.

SECTION 02: HAZARD IDENTIFICATION



HAZARD CLASSIFICATION..... ACUTE TOXICITY (ORAL) - CATEGORY 4. SKIN IRRITATION — CATEGORY 2.
 SPECIFIC TARGET ORGAN TOXICITY — REPEATED EXPOSURE — CATEGORY 2.
 SKIN SENSITIZATION - CATEGORY 1. EYE IRRITATION — CATEGORY 2.
 CARCINOGENICITY — CATEGORY 1A.

SIGNAL WORD..... DANGER.

HAZARD STATEMENT..... H302 HARMFUL IF SWALLOWED. H314 CAUSES SEVERE SKIN BURNS AND EYE
 DAMAGE. H317 MAY CAUSE AN ALLERGIC SKIN REACTION. H319 CAUSES
 SERIOUS EYE IRRITATION. H350 MAY CAUSE CANCER THROUGH PROLONGED OR
 REPEATED EXPOSURE. H372 CAUSES DAMAGE TO ORGANS THROUGH
 PROLONGED OR REPEATED EXPOSURE.

PRECAUTIONARY STATEMENT..... P264 WASH SKIN THOROUGHLY AFTER HANDLING. P270 DO NOT EAT, DRINK OR
 SMOKE WHEN USING THIS PRODUCT. P301+P312+P330 IF SWALLOWED: CALL A
 POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL. RINSE MOUTH.
 P501 DISPOSE OF CONTENTS/CONTAINER TO APPROPRIATE WASTE SITE OR
 RECLAIMER IN ACCORDANCE WITH LOCAL AND NATIONAL REGULATIONS. P260
 DO NOT BREATHE DUST/FUME/GAS/MIST/VAPOURS/SPRAY. P280 WEAR
 PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE
 PROTECTION. P301+P330+P331 IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE
 VOMITING. P363 WASH CONTAMINATED CLOTHING BEFORE REUSE.
 P304+P340+P310 IF INHALED: REMOVE VICTIM TO FRESH AIR AND KEEP AT REST
 IN A POSITION COMFORTABLE FOR BREATHING. IMMEDIATELY CALL A POISON
 CENTER OR DOCTOR/PHYSICIAN. P321 SPECIFIC TREATMENT (SEE
 SUPPLEMENTAL FIRST AID INSTRUCTIONS ON THE SAFETY DATA SHEET).
 P305+P351+P338 IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL
 MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE
 RINSING. P405 STORE LOCKED UP. P261 AVOID BREATHING
 DUST/FUME/GAS/MIST/VAPOURS/SPRAY. P272 CONTAMINATED WORK CLOTHING
 SHOULD NOT BE ALLOWED OUT OF THE WORKPLACE. P302+P352 IF ON SKIN:
 WASH WITH PLENTY OF SOAP AND WATER. P332+P313 IF SKIN IRRITATION
 OCCURS: GET MEDICAL ADVICE/ATTENTION. P362+P364 TAKE OFF
 CONTAMINATED CLOTHING AND WASH BEFORE REUSE. P337+P313 IF EYE
 IRRITATION PERSISTS: GET MEDICAL ADVICE/ATTENTION. P201 OBTAIN SPECIAL
 INSTRUCTIONS BEFORE USE. P202 DO NOT HANDLE UNTIL ALL SAFETY
 PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD. P308+P313 IF EXPOSED OR
 CONCERNED: GET MEDICAL ADVICE/ATTENTION. P314 GET MEDICAL
 ADVICE/ATTENTION IF YOU FEEL UNWELL.

OTHER HAZARDS..... NONE.

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SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

| HAZARDOUS INGREDIENTS | CAS # | WT. % |
|----------------------------------|------------|-------|
| SODIUM HYPOCHLORITE PHOSPHATE | 11084-85-8 | 30 |
| SODIUM BICARBONATE | 144-55-8 | 30 |
| TRIPHOSPHORIC ACID, SODIUM SALT | 7758-29-4 | 28 |
| SODIUM DODECYLBENZENE SULPHONATE | 25155-30-0 | 2-3 |
| SODIUM SULPHATE | 7757-82-6 | 5 |
| SILICA, CRISTOBALITE | 14464-46-1 | <0.3 |

SECTION 04: FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES:

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|--|---|
| EYE CONTACT..... | FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING THE UPPER AND LOWER EYELIDS. GET MEDICAL AID IMMEDIATELY. |
| SKIN CONTACT..... | IN CASE OF CONTACT, IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION. REMOVE CONTAMINATED CLOTHING AND LAUNDRER BEFORE REUSE. . |
| INHALATION..... | REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION. |
| INGESTION..... | DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. OBTAIN MEDICAL ATTENTION IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. |
| MOST IMPORTANT SYMPTOMS AND EFFECTS, ACUTE OR DELAYED: | DUSTS MAY IRRITATE THE RESPIRATORY TRACT, SKIN AND EYES. SYMPTOMS MAY INCLUDE STINGING, TEARING, REDNESS, SWELLING, AND BLURRED VISION. PERMANENT EYE DAMAGE INCLUDING BLINDNESS COULD RESULT. SKIN IRRITATION. MAY CAUSE REDNESS AND PAIN. |
| INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED | PROVIDE GENERAL SUPPORTIVE MEASURES AND TREAT SYMPTOMATICALLY. KEEP VICTIM UNDER OBSERVATION. SYMPTOMS MAY BE DELAYED. |

SECTION 05: FIRE FIGHTING MEASURES

| | |
|---|--|
| SUITABLE EXTINGUISHING MEDIA..... | WATER SPRAY. WATER FOG. FOAM. DRY CHEMICAL POWDER. CARBON DIOXIDE (CO2). |
| UNSUITABLE EXTINGUISHING MEDIA..... | N.AV. |
| SPECIAL HAZARDS ARISING FROM THE PRODUCT: | AVOID GENERATING DUST; FINE DUST DISPERSED IN AIR IN SUFFICIENT CONCENTRATIONS AND IN THE PRESENCE OF AN IGNITION SOURCE IS A POTENTIAL DUST EXPLOSION HAZARD. DURING FIRE, GASES HAZARDOUS TO HEALTH MAY BE FORMED. |
| HAZARDOUS COMBUSTION PRODUCTS. | OXIDES OF PHOSPHORUS. OXIDES OF SODIUM. OXIDES OF CARBON. DURING FIRE, GASES HAZARDOUS TO HEALTH MAY BE FORMED. |
| SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS: | AS IN ANY FIRE, WEAR A SELF-CONTAINED BREATHING APPARATUS IN PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT), AND FULL PROTECTIVE GEAR. |

SECTION 06: ACCIDENTAL RELEASE MEASURES

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| PERSONAL PRECAUTIONS..... | KEEP UNNECESSARY PERSONNEL AWAY. KEEP PEOPLE AWAY FROM AND UPWIND OF SPILL/LEAK. DUST DEPOSITS SHOULD NOT BE ALLOWED TO ACCUMULATE ON SURFACES, AS THESE MAY FORM AN EXPLOSIVE MIXTURE IF THEY ARE RELEASED INTO THE ATMOSPHERE IN SUFFICIENT CONCENTRATION. USE ONLY NON-SPARKING TOOLS. USE A NIOSH/MSHA APPROVED RESPIRATOR IF THERE IS A RISK OF EXPOSURE TO DUST/FUME AT LEVELS EXCEEDING THE EXPOSURE LIMITS. WEAR APPROPRIATE PROTECTIVE EQUIPMENT AND CLOTHING DURING CLEAN-UP. DO NOT TOUCH DAMAGED CONTAINERS OR SPILLED MATERIAL UNLESS WEARING APPROPRIATE PROTECTIVE CLOTHING. AVOID INHALATION OF DUST FROM THE SPILLED MATERIAL. ENSURE ADEQUATE VENTILATION. LOCAL AUTHORITIES SHOULD BE ADVISED IF SIGNIFICANT SPILLAGES CANNOT BE CONTAINED. FOR PERSONAL PROTECTION, SEE SECTION 8 OF THE SDS. |
| ENVIRONMENTAL PRECAUTIONS..... | AVOID RELEASE TO THE ENVIRONMENT. PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. DO NOT CONTAMINATE WATER. AVOID DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND. |

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SECTION 06: ACCIDENTAL RELEASE MEASURES

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP ELIMINATE ALL IGNITION SOURCES (NO SMOKING, FLARES, SPARKS, OR FLAMES IN IMMEDIATE AREA). TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGE. USE ONLY NON-SPARKING TOOLS. LARGE SPILLS: COLLECT SPILLAGE. IF SWEEPING OF A CONTAMINATED AREA IS NECESSARY USE A DUST SUPPRESSANT AGENT WHICH DOES NOT REACT WITH THE PRODUCT. SWEEP UP OR VACUUM UP SPILLAGE AND COLLECT IN SUITABLE CONTAINER FOR DISPOSAL. COLLECT DUST USING A VACUUM CLEANER EQUIPPED WITH HEPA FILTER. AVOID DISPERSAL OF DUST IN THE AIR (I.E., CLEARING DUST SURFACES WITH COMPRESSED AIR). MINIMIZE DUST GENERATION AND ACCUMULATION. PREVENT ENTRY INTO WATERWAYS, SEWER, BASEMENTS OR CONFINED AREAS. FOLLOWING PRODUCT RECOVERY, FLUSH AREA WITH WATER.

SECTION 07: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:..... AVOID CONTACT WITH SKIN, EYES AND CLOTHING. DO NOT TASTE OR SWALLOW. AVOID BREATHING DUST. USE ONLY WITH ADEQUATE VENTILATION. REMOVE AND WASH CONTAMINATED CLOTHING AND FOOTWEAR BEFORE RE-USE. WASH THOROUGHLY AFTER HANDLING. PRODUCT RESIDUE MAY REMAIN ON/IN EMPTY CONTAINERS. ALL PRECAUTIONS FOR HANDLING THE PRODUCT MUST BE USED IN HANDLING THE EMPTY CONTAINER AND RESIDUE. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: STORE IN A DRY, COOL AND WELL VENTILATED AREA. STORE AWAY FROM HEAT AND IGNITION SOURCES. PROTECT CONTAINER FROM PHYSICAL DAMAGE. KEEP THE CONTAINER TIGHTLY CLOSED WHEN NOT IN USE.

SECTION 08: EXPOSURE CONTROLS AND PERSONAL PROTECTION

| INGREDIENTS | TWA | ACGIH TLV STEL | PEL | OSHA PEL STEL | REL NIOSH |
|----------------------------------|--|-------------------|---|------------------|--------------|
| SODIUM HYPOCHLORITE PHOSPHATE | N.AV. | N.AV. | N.AV. | N.AV. | N.AV. |
| SODIUM BICARBONATE | 3 MG/M3 RESPIRABLE FRACTION; 10 MG/M3 TOTAL DUST. | N.AV. | 5 MG/M3 RESPIRABLE FRACTION; 15 MG/M3 TOTAL DUST. | N.AV. | N.AV. |
| TRIPHOSPHORIC ACID, SODIUM SALT | 10 MG/M3 | N.AV. | N.AV. | N.AV. | N.AV. |
| SODIUM DODECYLBENZENE SULPHONATE | N.AV. | N.AV. | N.AV. | N.AV. | N.AV. |
| SODIUM SULPHATE | N.AV. | N.AV. | N.AV. | N.AV. | N.AV. |
| SILICA, CRISTOBALITE | 0.025 MG/M3 (RESPIRABLE FRACTION) | N.AV. | 0.05 MG/M3 | N.AV. | N.AV. |

APPROPRIATE ENGINEERING CONTROLS GENERAL VENTILATION. USE LOCAL VENTILATION AT PRODUCT HANDLING AND TRANSFER POINTS.

INDIVIDUAL PROTECTION MEASURE SUCH AS PERSONAL PROTECTIVE EQUIPMENTS:

HAND PROTECTION..... APPROPRIATE CHEMICAL RESISTANT GLOVES SHOULD BE WORN.

RESPIRATORY PROTECTION..... USE A NIOSH-APPROVED RESPIRATOR OR SELF-CONTAINED BREATHING APPARATUS WHENEVER EXPOSURE MAY EXCEED ESTABLISHED OCCUPATIONAL EXPOSURE LIMITS.

EYE PROTECTION..... CHEMICAL SAFETY GOGGLES AND/OR FULL-FACE SHIELD.

PROTECTIVE CLOTHING..... SUITABLE PROTECTIVE CLOTHING.

PROTECTIVE FOOTWEAR..... PROTECTIVE FOOTWEAR.

OTHER..... EYEWASH STATION AND SAFETY SHOWER IN WORK AREA.

HYGIENIC PRACTICES..... USE GOOD PERSONAL HYGIENE PRACTICES. WASH HANDS BEFORE EATING, DRINKING, OR SMOKING, OR USING TOILET FACILITIES. PROMPTLY REMOVE CONTAMINATED CLOTHING AND WASH THOROUGHLY BEFORE REUSE.

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SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE..... OFF-WHITE GRANULAR SOLID.
 COLOR..... WATER-WHITE.
 ODOUR..... SLIGHT CHLORINE ODOR.
 ODOUR THRESHOLD..... N.AV.
 PH..... 9.98 (10% SOLUTION).
 BOILING POINT..... N.AP.
 FLASH POINT (C), METHOD..... N.AP.
 EVAPORATION RATE..... N.AP.
 FLAMMABILITY (SOLIDS AND GASES)..... N.AV.
 UPPER FLAMMABLE LIMIT (% BY VOL.)... N.AV.
 LOWER FLAMMABLE LIMIT (% BY VOL.)... N.AV.
 VAPOUR PRESSURE (MMHG)..... N.AP.
 VAPOUR DENSITY (AIR=1)..... N.AP.
 RELATIVE DENSITY..... 0.9.
 SOLUBILITY IN WATER (% W/W)..... N.AV.
 COEFFICIENT OF WATER/OIL DIST..... N.AV.
 AUTO IGNITION TEMPERATURE..... N.AV.
 DECOMPOSITION TEMPERATURE..... N.AV.
 VISCOSITY..... NO DATA.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:..... STABLE UNDER NORMAL CONDITIONS.
 CHEMICAL STABILITY:..... STABLE UNDER NORMAL STORAGE AND HANDLING CONDITIONS.
 POSSIBILITY OF HAZARDOUS REACTIONS:..... HAZARDOUS POLYMERIZATION WILL NOT OCCUR. VIOLENT EXPLOSIONS WILL OCCUR WHEN SODIUM SULPHATE IS MELTED WITH ALUMINUM OR MAGNESIUM.
 CONDITIONS TO AVOID..... DUSTING CONDITIONS, EXTREME HEAT, EXTREME HUMIDITY. CONTACT WITH INCOMPATIBLE MATERIALS.
 INCOMPATIBLE MATERIALS:..... ACIDS. METALS. OXIDIZING MATERIALS. LIME. HYDROFLUORIC ACID.
 HAZARDOUS PRODUCTS OF DECOMPOSITION..... OXIDES OF SULFUR. SILICONE DIOXIDES. AT HIGH TEMPERATURE MAY LIBERATE TOXIC GASES. OXIDES OF SODIUM.

SECTION 11: TOXICOLOGICAL INFORMATION

| INGREDIENTS | LC50 | LD50 |
|---|---|---|
| SODIUM HYPOCHLORITE PHOSPHATE | N.AV. | N.AV. |
| SODIUM BICARBONATE | > 4.7 MG/L/4H (IHL, RAT) | 7.3 G/KG (ORAL, RAT) |
| TRIPHOSPHORIC ACID, SODIUM SALT | N.AV. | 3120 MG/KG (ORAL, RAT); 4640 MG/KG (DERMAL, RABBIT) |
| SODIUM DODECYLBENZENE SULPHONATE | N.AV. | N.AV. |
| SODIUM SULPHATE | N.AV. | 5989 MG/KG (ORAL, RAT) |
| SILICA, CRISTOBALITE | N.AV. | N.AV. |
| INFORMATION ON LIKELY ROUTES OF ENTRY: | | |
| SKIN CONTACT..... | CAUSES SKIN IRRITATION. SYMPTOMS MAY INCLUDE PAIN (WHICH MAY BE DELAYED), REDNESS, AND/OR DISCOMFORT. | |
| SKIN ABSORPTION..... | N.AV. | |
| EYE CONTACT..... | CAUSES SERIOUS EYE IRRITATION. SYMPTOMS MAY INCLUDE PAIN, REDNESS, AND WATERING. | |
| INHALATION..... | MAY BE IRRITATING TO NOSE, THROAT, AND RESPIRATORY TRACT. SYMPTOMS MAY INCLUDE COUGHING AND DIFFICULTY BREATHING. | |
| INGESTION..... | MAY BE IRRITATING TO MOUTH, THROAT AND STOMACH. SYMPTOMS MAY INCLUDE STOMACH PAIN AND NAUSEA. HARMFUL IF SWALLOWED. | |
| EFFECTS OF ACUTE EXPOSURE..... | SEE ABOVE. | |
| EFFECTS OF CHRONIC EXPOSURE..... | N.AV. | |
| SIGNS AND SYMPTOMS OF OVEREXPOSURE | | |
| CARCINOGENICITY OF MATERIAL..... | SILICA, CRISTOBALITE: ACGIH A2, SUSPECTED HUMAN CARCINOGEN. IARC GROUP 1, CARCINOGENIC TO HUMANS. | |
| TERATOGENICITY..... | N.AV. | |
| MUTAGENICITY..... | N.AV. | |
| REPRODUCTIVE EFFECTS..... | N.AV. | |
| SENSITIZING CAPABILITY OF MATERIAL..... | N.AV. | |
| SYNERGISTIC MATERIALS..... | N.AV. | |

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SECTION 12: ECOLOGICAL CONSIDERATIONS

ECOTOXICITY..... N.AV.
 PERSISTENCE AND DEGRADATION..... N.AV.
 BIOACCUMULATIVE POTENTIAL..... N.AV.
 MOBILITY IN SOIL..... N.AV.
 OTHER ADVERSE EFFECTS..... N.AV.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS:..... DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

SECTION 14: TRANSPORT INFORMATION

UN NUMBER..... N.AP.
 PROPER SHIPPING NAME..... N.AP.
 TDG CLASSIFICATION..... NOT REGULATED.
 PACKING GROUP..... N.AP.
 ENVIRONMENTAL HAZARDS ACCORDING
 TO THE INTERNATIONAL MARITIME
 DANGEROUS GOODS CODE AND THE
 UNITED NATIONS MODEL REGULATIONS:
 SPECIAL PRECAUTIONS IN CONNECTION N.AV.
 WITH TRANSPORT OR CONVEYANCE
 EITHER WITHIN OR OUTSIDE THE
 PREMISES:

SECTION 15: REGULATORY INFORMATION

SAFETY, HEALTH AND ENVIRONMENTAL N.AV.
 REGULATIONS SPECIFIC TO THE
 PRODUCT:

SECTION 16: OTHER INFORMATION

N.AV.=NOT AVAILABLE
 N.AP.=NOT APPLICABLE

IARC..... INTERNATIONAL AGENCY FOR RESEARCH ON CANCER.
 NTP..... NATIONAL TOXICOLOGY PROGRAM.
 OTHER INFORMATION..... THE DATA IN THIS MSDS RELATES ONLY TO THE SPECIFIC MATERIAL
 DESIGNATED HEREIN AND DOES NOT RELATE TO USE IN COMBINATION WITH
 ANY OTHER MATERIAL OR IN ANY PROCESS. THIS DATA IS OFFERED IN GOOD
 FAITH AS TYPICAL VALUES AND NOT AS PRODUCT SPECIFICATIONS. NO
 WARRANTY, EITHER EXPRESSED OR IMPLIED, IS HEREBY MADE. THE
 RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE
 BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD
 REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE
 INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.

PREPARED BY..... REGULATORY AFFAIRS
 PREPARATION DATE..... APR 18/2017