#### SAFETY DATA SHEET

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

#### PRODUCT: VINYL PLUS

#### **SECTION 01: IDENTIFICATION**

| PRODUCT CODE<br>PRODUCT IDENTIFIER<br>OTHER MEANS OF IDENTIFICATION<br>RECOMMENDED USE AND<br>RESTRICTIONS ON USE | N.AV.   |
|---|---|
| SUPPLIER IDENTIFIER   | MURSATT CHEMICALS LIMITED<br>11 REGALCREST COURT<br>WOODBRIDGE, ONTARIO<br>CANADA |
| EMERGENCY PHONE NO  | L4L 8P3   |

#### **SECTION 02: HAZARD IDENTIFICATION**



CODE: MUR0017

# CODE: MUR0017

#### **PRODUCT: VINYL PLUS**

#### **SECTION 02: HAZARD IDENTIFICATION**

| PRECAUTIONARY STATEMENT | OUTDOORS OR IN A WELL-VENTILATED AREA. P312 CALL A POISON CENTER OR<br>DOCTOR/PHYSICIAN IF YOU FEEL UNWELL. P403+P233 STORE IN A           |
|-------------------------|--|
|                         | WELL-VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED. P201 OBTAIN  |
|                         | SPECIAL INSTRUCTIONS BEFORE USE. P202 DO NOT HANDLE UNTIL ALL SAFETY<br>PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD. P308+P313 IF EXPOSED OR |
|                         | CONCERNED: GET MEDICAL ADVICE/ATTENTION.   |
| OTHER HAZARDS           | NONE.  |

## SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

| HAZARDOUS INGREDIENTS                                    | CAS #      | WT. % |
|--|------------|-------|
| DISODIUM METASILICATE                                    | 6834-92-0  | 8     |
| GLYCOL ETHER DB  | 112-34-5   | ~5    |
| NONYLPHENOL ETHOXYLATE                                   | 9016-45-9  | 1-2   |
| TETRASODIUM ETHYLENEDIAMINE TETRAACETATE<br>TETRAHYDRATE | 13235-36-4 | <1    |
| ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE                  | 53516-76-0 | <1    |
| ALKYL(C12-14) DIMETHYL(ETHYLBENZYL) AMMONIUM<br>CHLORIDE | 85409-23-0 | <1    |
| SODIUM NITRITE   | 7632-00-0  | <1    |

### SECTION 04: FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES:

| EYE CONTACT                 | IN CASE OF CONTACT, OR SUSPECTED CONTACT, IMMEDIATELY FLUSH EYES         |
|-----------------------------|--|
|                             | WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL             |
|                             | ATTENTION IMMEDIATELY AFTER FLUSHING.                                    |
| 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 LAUNDER BEFORE REUSE.                                       |
| INHALATION                  | REMOVE PERSON TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL            |
|                             | RESPIRATION. IF BREATHING IS DIFFICULT, GET IMMEDIATE MEDICAL ATTENTION. |
| INGESTION                   | DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN               |
|                             | UNCONSCIOUS OR CONVULSING PERSON. SEEK IMMEDIATE MEDICAL                 |
|                             | ATTENTION. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS        |
|                             | TO PREVENT ASPIRATION OF LIQUID INTO THE LUNGS.                          |
| MOST IMPORTANT SYMPTOMS AND | SEE SECTION 11.  |
| EFFECTS, ACUTE OR DELAYED:  |  |

INDICATION OF ANY IMMEDIATE MEDICAL NOTES TO PHYSICIAN: TREATMENT BASED ON SOUND JUDGMENT OF PHYSICIAN ATTENTION AND SPECIAL TREATMENT AND INDIVIDUAL REACTIONS OF PATIENT. NEEDED

#### **SECTION 05: FIRE FIGHTING MEASURES**

| SUITABLE EXTINGUISHING MEDIA<br>UNSUITABLE EXTINGUISHING MEDIA  | USE DRY CHEMICALS, CO2, ALCOHOL FOAM OR WATER SPRAY.<br>N.AV.   |
|---|---|
| SPECIAL HAZARDS ARISING FROM THE PRODUCT:                       | ISOLATE AND RESTRICT AREA ACCESS. USE WATER SPRAY TO COOL<br>FIRE-EXPOSED CONTAINERS AND STRUCTURES. FIGHT FIRE FROM A SAFE         |
|   | DISTANCE AND FROM A PROTECTED LOCATION. DO NOT DIRECT A SOLID<br>STREAM OF WATER OR FOAM INTO HOT, BURNING POOLS; THIS MAY CAUSE    |
|   | FROTHING AND INCREASE FIRE INTENSITY. THIS MATERIAL MAY PRODUCE A<br>FLOATING FIRE HAZARD IN EXTREME FIRE CONDITIONS. CONTAINER MAY |
|   | RUPTURE FROM GAS GENERATION IN A FIRE SITUATION.  |
| HAZARDOUS COMBUSTION PRODUCTS.                                  | CARBON DIOXIDE, CARBON MONOXIDE. TOXIC FUMES. ACRID SMOKE AND IRRITATING FUMES. OXIDES OF NITROGEN.                                 |
| SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS: | FIRE FIGHTERS SHOULD WEAR FULL PROTECTIVE CLOTHING, INCLUDING SELF-CONTAINED BREATHING EQUIPMENT.                                   |
|   |   |

#### SECTION 06: ACCIDENTAL RELEASE MEASURES

| PERSONAL PRECAUTIONS |
|----------------------|
|----------------------|

. . . . . . . . . . . . . . . .

KEEP UNNECESSARY PERSONNEL AWAY. KEEP PEOPLE AWAY FROM AND UPWIND OF SPILL/LEAK. ELIMINATE ALL IGNITION SOURCES (NO SMOKING, FLARES, SPARKS, OR FLAMES IN IMMEDIATE AREA). WEAR APPROPRIATE **PRODUCT: VINYL PLUS** 

# CODE: MUR0017

#### SECTION 06: ACCIDENTAL RELEASE MEASURES

| PERSONAL PRECAUTIONS                                     | PROTECTIVE EQUIPMENT AND CLOTHING DURING CLEAN-UP. DO NOT BREATHE<br>MIST OR VAPOR. DO NOT TOUCH DAMAGED CONTAINERS OR SPILLED MATERIAL<br>UNLESS WEARING APPROPRIATE PROTECTIVE CLOTHING, VENTILATE CLOSED |
|--|---|
|  | SPACES BEFORE ENTERING THEM. LOCAL AUTHORITIES SHOULD BE ADVISED IF<br>SIGNIFICANT SPILLAGES CANNOT BE CONTAINED. FOR PERSONAL PROTECTION,<br>SEE SECTION 8 OF THE SDS.                                     |
| ENVIRONMENTAL PRECAUTIONS                                | AVOID RELEASE TO THE ENVIRONMENT. PREVENT FURTHER LEAKAGE OR<br>SPILLAGE IF SAFE TO DO SO. AVOID DISCHARGE INTO DRAINS, WATER COURSES<br>OR ONTO THE GROUND. INFORM APPROPRIATE MANAGERIAL OR SUPERVISORY   |
|  | PERSONNEL OF ALL ENVIRONMENTAL RELEASES. USE APPROPRIATE<br>CONTAINMENT TO AVOID ENVIRONMENTAL CONTAMINATION.   |
| METHODS AND MATERIALS FOR<br>CONTAINMENT AND CLEANING UP | ISOLATE SPILL AND STOP LEAK WHERE SAFE. ABSORB WITH AN INERT DRY<br>MATERIAL AND PLACE IN AN APPROPRIATE WASTE DISPOSAL CONTAINER.  |

#### **SECTION 07: HANDLING AND STORAGE**

PRECAUTIONS FOR SAFE HANDLING:..... CONDITIONS FOR SAFE STORAGE, ....... INCLUDING ANY IMCOMPATIBILITES: AUXION CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING IN DUST. KEEP THE CONTAINERS CLOSED WHEN NOT IN USE. WASH THOROUGHLY AFTER HANDLING.. KEEP CONTAINERS TIGHTLY CLOSED. STORE IN CLEAN, TIGHTLY CLOSED STEEL CONTAINERS. PLACE AWAY FROM INCOMPATIBLE MATERIAL. DO NOT STORE IN ALUMINUM, FIBERGLASS, COPPER, BRASS, ZINC OR GALVANIZED CONTAINERS. STORE IN COOL, DRY AND WELL VENTILATED LOCATION. STORE LOCKED UP.

#### SECTION 08: EXPOSURE CONTROLS AND PERSONAL PROTECTION

|   | 100         | IH TLV   |  | A PEL   | NIOSH        |
|---|-------------|--|--|---|--------------|
| INGREDIENTS   | TWA         | STEL   | PEL  | STEL  | REL          |
| DISODIUM<br>METASILICATE  | N.AV.       | N.AV.  | N.AV.  | N.AV.   | N.AV.        |
| GLYCOL ETHER DB   | N.AV.       | N.AV.  | N.AV.  | N.AV.   | N.AV.        |
| NONYLPHENOL<br>ETHOXYLATE   | N.AV.       | N.AV.  | N.AV.  | N.AV.   | N.AV.        |
| TETRASODIUM<br>ETHYLENEDIAMINE<br>TETRAACETATE<br>TETRAHYDRATE                | N.AV.       | N.AV.  | N.AV.  | N.AV.   | N.AV.        |
| ALKYL DIMETHYL<br>BENZYL AMMONIUM<br>CHLORIDE                                 | N.AV.       | N.AV.  | N.AV.  | N.AV.   | N.AV.        |
| ALKYL(C12-14)<br>DIMETHYL(ETHYLBENZ<br>YL) AMMONIUM<br>CHLORIDE               | N.AV.       | N.AV.  | N.AV.  | N.AV.   | N.AV.        |
| SODIUM NITRITE  | N.AV.       | N.AV.  | N.AV.  | N.AV.   | N.AV.        |
| APPROPRIATE ENGINI<br>INDIVIDUAL PROTECT<br>SUCH AS PERSONAL F<br>EQUIPMENTS: | ION MEASURE | GENERAL VENTILATI<br>MAINTAIN EXPOSURE   |  |   | ECESSARY TO  |
| HAND PROTECTION.<br>RESPIRATORY PROT  |             |  |  |   | SH APPROVED  |
| EYE PROTECTION  |             | CHEMICAL GOGGLES<br>SPLASHING IS A POS   |  | ELDS SHOULD BE WO   | RN WHERE     |
| PROTECTIVE CLOTH  | IING        |  | AND/OR OTHER RE  | SISTANT PROTECTIV   | E CLOTHING.  |
| PROTECTIVE FOOTV<br>OTHER<br>HYGIENIC PRACTICES                               |             | WEAR CHEMICAL-RE<br>EYEWASH STATION A<br>USE GOOD PERSONA<br>DRINKING, OR SMOK<br>CONTAMINATED CLO | SISTANT FOOTWEA<br>AND SAFETY SHOWE<br>AL HYGIENE PRACTI<br>ING, OR USING TOIL | ER IN WORK AREA.<br>CES. WASH HANDS B<br>.ET FACILITIES. PRON | IPTLY REMOVE |

#### **PRODUCT: VINYL PLUS**

#### SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

| PHYSICAL STATE<br>COLOR<br>ODOUR<br>ODOUR THRESHOLD<br>PH<br>FREEZING/MELTING POINT<br>BOILING POINT<br>FLASH POINT (C), METHOD<br>EVAPORATION RATE<br>ELAMMABILITY (SOLIDS AND GASES) | LIQUID. LIGHT BLUE.<br>LIGHT BLUE.<br>SLIGHT SWEET.<br>N.AV.<br>12.2.<br>N.AV.<br>N.AV.<br>N.AV.<br>N.AV.<br>N.AV.<br>N.AV.<br>N.AV. |
|--|--|
| FLAMMABILITY (SOLIDS AND GASES)<br>UPPER FLAMMABLE LIMIT (% BY VOL.)   | N.AV.<br>N.AV.<br>N.AV.  |
| LOWER FLAMMABLE LIMIT (% BY VOL.)<br>VAPOUR PRESSURE (MMHG)<br>VAPOUR DENSITY (AIR=1)  | N.AV.<br>N.AV.<br>N.AV.  |
| RELATIVE DENSITY   | 1.03.<br>SOLUBLE.  |
| SOLUBILITY IN WATER (% W/W)<br>COEFFICIENT OF WATER/OIL DIST<br>AUTO IGNITION TEMPERATURE  | N.AV.<br>N.AV.   |
| DECOMPOSITION TEMPERATURE  | N.AV.<br>N.AV.   |

#### SECTION 10: STABILITY AND REACTIVITY

| REACTIVITY:<br>CHEMICAL STABILITY:     |   |
|--|---|
| POSSIBILITY OF HAZARDOUS<br>REACTIONS: | HAZARDOUS POLYMERIZATION WILL NOT OCCUR.  |
| CONDITIONS TO AVOID                    | CONTACT WITH ICOMPATIBLES. PRODUCT CAN OXIDIZE AT ELEVATED<br>TEMPERATURES. GENERATION OF GAS DURING DECOMPOSITION CAN CAUSE              |
|  | PRESSURE IN CLOSED SYSTEMS.   |
| INCOMPATIBLE MATERIALS:                | CONTACT WITH ACIDS. GENERATES HEAT WHEN MIXED WITH ACID. MAY REACT<br>WITH AMMONIUM SALT SOLUTIONS RESULTING IN EVOLUTION OF AMMONIA GAS. |
|  | FLAMMABLE HYDROGEN GAS MAY BE PRODUCED ON CONTACT WITH ALUMINUM,  |
|  | TIN, LEAD, AND ZINC. CARBON MONOXIDE GAS MAY BE PRODUCED ON CONTACT<br>WITH REDUCING SUGARS. STRONG OXIDIZING AGENTS, STRONG BASES.       |
|  | ALKALIS. ORGANIC MATTER. COMBUSTIBLE MATERIAL. REDUCING AGENTS.<br>THIOSULFATES. THIOCYANATES. AMMONIUM COMPOUNDS.                        |
| HAZARDOUS PRODUCTS OF<br>DECOMPOSITION |   |

## SECTION 11: TOXICOLOGICAL INFORMATION

| INGREDIENTS  | LC50   | LD50   |
|--|--|--|
| DISODIUM METASILICATE  | N.AV.  | 1153 MG/KG (ORAL, RAT); 770<br>MG/KG (ORAL, MOUSE)                             |
| GLYCOL ETHER DB  | N.AV.  | 3384 MG/KG (ORAL, RAT); )<br>2700 MG/KG (DERMAL, RABBIT)                       |
| NONYLPHENOL ETHOXYLATE   | N.AV.  | 1310 MG/KG (ORAL, RAT); >50<br>G/KG (ORAL, MOUSE); 2 ML/KG<br>(DERMAL, RABBIT) |
| TETRASODIUM ETHYLENEDIAMINE TETRAACET<br>TETRAHYDRATE                  | ATE N.AV.  | N.AV.  |
| ALKYL DIMETHYL BENZYL AMMONIUM CHLORIE                                 | DE N.AV.   | 3560 MG/KG (DERMAL); 430<br>MG/KG (ORAL)                                       |
| ALKYL(C12-14) DIMETHYL(ETHYLBENZYL) AMM<br>CHLORIDE                    | DNIUM N.AV.  | 3560 MG/KG (DERMAL); 430<br>MG/KG (ORAL)                                       |
| SODIUM NITRITE   | 5.5 MG/L 4 H (INH, RAT)  | 85 MG/KG (ORAL, RAT)   |
| SKIN ABSORPTION N.A<br>EYE CONTACT CO<br>INHALATION CO<br>INGESTION CO | RROSIVE. CAUSES BURNS.<br>V.<br>RROSIVE. CAUSES EYE BURNS.<br>RROSIVE TO THE RESPIRATORY PASSAGE<br>RROSIVE. CAUSES BURNS TO THE MOUTH<br>E ABOVE. |  |

CODE: MUR0017

#### **PRODUCT: VINYL PLUS**

#### CODE: MUR0017

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

| EFFECTS OF CHRONIC EXPOSURE  | SUBCHRONIC DATA: IN A STUDY OF RATS FED SODIUM SILICATE IN DRINKING<br>WATER FOR THREE MONTHS, AT 200, 600 AND 1800 PPM, CHANGES WERE<br>REPORTED IN THE BLOOD CHEMISTRY OF SOME ANIMALS, BUT NO SPECIFIC<br>CHANGES TO THE ORGANS OF THE ANIMALS DUE TO SODIUM SILICATE<br>ADMINISTRATION WERE OBSERVED IN ANY OF THE DOSAGE GROUPS. ANOTHER<br>STUDY REPORTED ADVERSE EFFECTS TO THE KIDNEYS OF DOGS FED SODIUM<br>SILICATE IN THEIR DIET AT 2.4G/KG/DAY FOR 4 WEEKS, WHEREAS RATS FED THE<br>SAME DOSAGE DID NOT DEVELOP ANY TREATMENT-RELATED EFFECTS.<br>DECREASED NUMBERS OF BIRTHS AND SURVIVAL TO WEANING WAS REPORTED<br>FOR RATS FED SODIUM SILICATE IN THEIR DRINKING WATER AT 600 AND 1200<br>PPM. |
|--|--|
| SIGNS AND SYMPTOMS OF<br>OVEREXPOSURE  |  |
| CARCINOGENICITY OF MATERIAL<br>TERATOGENICITY<br>MUTAGENICITY<br>REPRODUCTIVE EFFECTS<br>SENSITIZING CAPABILITY OF MATERIAL<br>SYNERGISTIC MATERIALS | NITRITE (INGESTED) UNDER CONDITIONS THAT RESULT IN ENDOGENOUS<br>NITROSATION).<br>N.AV.<br>N.AV.<br>N.AV.<br>N.AV.<br>N.AV.<br>N.AV.   |

#### **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                         | 1760.  |
|-----------------------------------|--|
| PROPER SHIPPING NAME              | CORROSIVE LIQUIDS, N.O.S. (DISODIUM TRIOXOSILICATE). |
| TDG CLASSIFICATION                | 8.   |
| PACKING GROUP                     | III.   |
| ENVIRONMENTAL HAZARDS ACCORDING   | N.AV.  |
| 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<br>N.AP.=NOT APPLICABLE |  |
|---|--|
| 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 THET ARE APPROPRIATE.           |
| PREPARED BY                                 | REGULATORY AFFAIRS   |
| PREPARATION DATE                            | JAN 1/2024   |
|   |  |