



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

PRODUCT: POOL POLISH

CODE: MUR0042

### SECTION 01: IDENTIFICATION

PRODUCT CODE..... MUR0042  
 PRODUCT IDENTIFIER..... POOL POLISH  
 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..... CORROSIVE TO METALS - CATEGORY 1 . SERIOUS EYE DAMAGE - CATEGORY 1.  
 SIGNAL WORD..... DANGER.  
 HAZARD STATEMENT..... H290 MAY BE CORROSIVE TO METALS. H318 CAUSES SERIOUS EYE DAMAGE.  
 PRECAUTIONARY STATEMENT..... P234 KEEP ONLY IN ORIGINAL CONTAINER. P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION. P305+P351+P338+P310 IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN. P390 ABSORB SPILLAGE TO PREVENT MATERIAL DAMAGE. P406 STORE IN CORROSIVE RESISTANT CONTAINER WITH A RESISTANT INNER LINER.  
 OTHER HAZARDS..... NONE.

### SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
ALUMINUM SULFATE HYDRATE	16828-12-9	99

### SECTION 04: FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES:

EYE CONTACT..... IMMEDIATELY FLUSH THE CONTAMINATED EYE(S) WITH LUKEWARM, GENTLY FLOWING WATER FOR 20 MINUTES OR UNTIL THE CHEMICAL IS REMOVED, WHILE HOLDING THE EYELID(S) OPEN. TAKE CARE NOT TO RINSE CONTAMINATED WATER INTO THE UNAFFECTED EYE OR ONTO THE FACE. OBTAIN MEDICAL ATTENTION 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. DO NOT TRANSPORT VICTIM UNTIL THE RECOMMENDED FLUSHING PERIOD IS COMPLETED, UNLESS FLUSHING CAN BE CONTINUED DURING TRANSPORT.

INHALATION..... IF SYMPTOMS ARE EXPERIENCED, REMOVE SOURCE OF CONTAMINATION OR MOVE VICTIM TO FRESH AIR. IF SYMPTOMS PERSIST, GET MEDICAL ATTENTION. IF BREATHING HAS STOPPED, TRAINED PERSONNEL SHOULD BEGIN ARTIFICIAL RESPIRATION (AR) IMMEDIATELY. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IN SITUATIONS WHERE ADMINISTERING OXYGEN IS APPROPRIATE, FIRST AIDERS MUST BE TRAINED IN THE SAFE USE AND HANDLING OF OXYGEN. IT IS PREFERABLE TO ADMINISTER OXYGEN UNDER A DOCTOR'S SUPERVISION OR ADVICE. IF THE HEART HAS STOPPED, TRAINED PERSONNEL SHOULD BEGIN CARDIOPULMONARY RESUSCITATION (CPR) IMMEDIATELY. IMMEDIATE MEDICAL ASSISTANCE IS REQUIRED.

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**SECTION 04: FIRST AID MEASURES**

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 ATTENTION AND SPECIAL TREATMENT NEEDED TREATMENT BASED ON SOUND JUDGMENT OF PHYSICIAN AND INDIVIDUAL REACTIONS OF PATIENT.

**SECTION 05: FIRE FIGHTING MEASURES**

SUITABLE EXTINGUISHING MEDIA..... USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.

UNSUITABLE EXTINGUISHING MEDIA..... NONE KNOWN.

SPECIAL HAZARDS ARISING FROM THE PRODUCT: DRY ALUM WILL DISSOLVE IN WATER TO FORM SULFURIC ACID WHICH REACTS WITH SOME METALS, ESPECIALLY WHEN DILUTE, TO GIVE FLAMMABLE, POTENTIALLY EXPLOSIVE HYDROGEN GAS. HYDROGEN GAS CAN ACCUMULATE TO EXPLOSIVE CONCENTRATIONS INSIDE CONFINED SPACES.

HAZARDOUS COMBUSTION PRODUCTS. OXIDES OF SULPHUR. ALUMINUM OXIDES. CORROSIVE FUMES. OXIDES OF SULPHUR. ALUMINUM OXIDES. CORROSIVE FUMES.

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..... WEAR APPROPRIATE PROTECTIVE EQUIPMENT.

ENVIRONMENTAL PRECAUTIONS..... PREVENT FROM ENTERING INTO SOIL, DITCHES, SEWERS, WATERWAYS AND/OR GROUNDWATER.

METHODS AND MATERIALS FOR ..... PICK UP SOLIDS AND PUT IN AN APPROPRIATE SEALED CONTAINER FOR LATER CONTAINMENT AND CLEANING UP DISPOSAL. NEUTRALIZE WITH LIME SLURRY, LIMESTONE, OR SODA ASH. THIS WILL GENERATE CARBON DIOXIDE, SO ADDITIONAL VENTILATION MAY BE NECESSARY.

**SECTION 07: HANDLING AND STORAGE**

PRECAUTIONS FOR SAFE HANDLING:..... AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING IN DUST. AVOID BREATHING VAPORS, MIST, FUME OR DUST. DO NOT INGEST. USE GOOD PERSONAL HYGIENE. KEEP THE CONTAINERS CLOSED WHEN NOT IN USE. EMPTY CONTAINERS MAY CONTAIN HAZARDOUS PRODUCT RESIDUES. GOOD HOUSEKEEPING PROCEDURES SHOULD BE FOLLOWED TO MINIMIZE DUST GENERATION AND ACCUMULATION. WHEN THERE IS A LARGE-SCALE USE, DO NOT USE IN AREAS EQUIPPED WITH SPRINKLER SYSTEMS. POST "DO NOT USE WATER" SIGNS. GOOD HOUSEKEEPING IS IMPORTANT TO PREVENT ACCUMULATIONS OF DUST. DRY SWEEPING IS NOT RECOMMENDED. CONTACT WITH WATER FORMS SULPHURIC ACID.

CONDITIONS FOR SAFE STORAGE, ..... STORE IN A COOL, DRY, WELL VENTILATED AREA. KEEP CONTAINERS TIGHTLY INCLUDING ANY INCOMPATIBILITIES: CLOSED. PLACE AWAY FROM INCOMPATIBLE MATERIALS. STORE IN ACCORDANCE WITH GOOD INDUSTRIAL PRACTICES.

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

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
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ALUMINUM SULFATE HYDRATE	2 MG/M3 AS ALUMINUM (SOLUBLE SALTS)	N.AV.	2 MG/M3 AS ALUMINUM (SOLUBLE SALTS)	N.AV.	N.AV.	
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APPROPRIATE ENGINEERING CONTROLS IF USER OPERATIONS GENERATE DUST, FUME OR MIST, USE VENTILATION TO KEEP EXPOSURE TO AIRBORNE CONTAMINANTS BELOW THE EXPOSURE LIMIT.

INDIVIDUAL PROTECTION MEASURE SUCH AS PERSONAL PROTECTIVE EQUIPMENTS:

HAND PROTECTION..... NEOPRENE GLOVES. PVC GLOVES. VINYL GLOVES. RUBBER GLOVES.

RESPIRATORY PROTECTION..... A NIOSH/MSHA APPROVED DUST MASK, FOR DUST CONCENTRATIONS OF UP TO 10 MG/M3. A NIOSH/MSHA APPROVED AIR-PURIFYING RESPIRATOR EQUIPPED WITH ACID GAS/FUME, MIST CARTRIDGES FOR CONCENTRATIONS UP TO 20 MG/M3. AN AIR-SUPPLIED RESPIRATOR IF CONCENTRATIONS ARE HIGHER OR UNKNOWN.

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

EYE PROTECTION.....	CHEMICAL GOGGLES; ALSO WEAR A FACE SHIELD IF SPLASHING HAZARD EXISTS.
PROTECTIVE CLOTHING.....	SKIN CONTACT SHOULD BE PREVENTED THROUGH USE OF SUITABLE PROTECTIVE CLOTHING, GLOVES AND FOOTWEAR, SELECTED WITH REGARD FOR USE CONDITIONS AND EXPOSURE POTENTIAL. CONSIDERATION MUST BE GIVEN BOTH TO DURABILITY AS WELL AS PERMEATION RESISTANCE.
PROTECTIVE FOOTWEAR.....	SEE ABOVE.
OTHER.....	ENSURE THAT EYEWASH STATIONS AND SAFETY SHOWERS ARE PROXIMAL TO THE WORK-STATION LOCATION.
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.

**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE.....	SOLID GRANULES OR POWDER.
COLOR.....	WHITE TO OFF WHITE.
ODOUR.....	ODOURLESS.
ODOUR THRESHOLD	
PH.....	> 2.9 @ 5%.
FREEZING/MELTING POINT.....	86 °C / 186 °F.
BOILING POINT.....	117°C /242.6 °F (CONDENSATION POINT).
FLASH POINT (C), METHOD.....	N.AP.
EVAPORATION RATE.....	N.AP.
FLAMMABILITY (SOLIDS AND GASES).....	N.AV.
UPPER FLAMMABLE LIMIT (% BY VOL.)...	N.AP.
LOWER FLAMMABLE LIMIT (% BY VOL.)...	N.AP.
VAPOUR PRESSURE (MMHG).....	N.AP.
VAPOUR DENSITY (AIR=1).....	N.AP.
RELATIVE DENSITY.....	1.61.
SOLUBILITY IN WATER (% W/W).....	SOLUBLE IN WATER.
COEFFICIENT OF WATER/OIL DIST.....	N.AV.
AUTO IGNITION TEMPERATURE.....	N.AV.
DECOMPOSITION TEMPERATURE.....	N.AV.
VISCOSITY.....	N.AP.

**SECTION 10: STABILITY AND REACTIVITY**

REACTIVITY:.....	HAZARDOUS POLYMERISATION WILL NOT OCCUR.
CHEMICAL STABILITY:.....	STABLE.
POSSIBILITY OF HAZARDOUS REACTIONS:	MAY CORRODE FERROUS METALS AND MILD STEEL IN PRESENCE OF MOISTURE.
CONDITIONS TO AVOID.....	TEMPERATURES OVER 760 °C. CONTACT WITH WATER FORMS SULPHURIC ACID.
INCOMPATIBLE MATERIALS:.....	STRONG BASES. STRONG OXIDIZING AGENTS. ALKALIS. WATER-REACTIVE MATERIALS SUCH AS OLEUM CAUSE EXOTHERMIC REACTIONS.
HAZARDOUS PRODUCTS OF DECOMPOSITION	AT TEMPERATURES ABOVE 760°C, SULFUR OXIDE GASES ARE RELEASED WHICH ARE TOXIC, CORROSIVE AND ARE OXIDIZERS. THE REMAINING RESIDUE IS CAUSTIC. THE TRIOXIDE IS ALSO A FIRE HAZARD. OXIDES OF ALUMINUM.

**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
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ALUMINUM SULFATE HYDRATE

N.AV.

>9000 MG/KG (ORAL, RAT);  
>9000 MG/KG (ORAL, MOUSE)

## INFORMATION ON LIKELY ROUTES OF ENTRY:

SKIN CONTACT.....	MAY CAUSE SKIN IRRITATION, ESPECIALLY UNDER REPEATED OR PROLONGED CONTACT OR WHEN MOISTURE IS PRESENT. ALUMINUM IS VERY POORLY ABSORBED THROUGH THE SKIN AND TOXIC EFFECTS WOULD NOT BE EXPECTED FOLLOWING SHORT-TERM SKIN CONTACT. PROLONGED AND REPEATED EXPOSURE TO DILUTE SOLUTIONS OFTEN CAUSES IRRITATION, REDNESS, PAIN AND DRYING AND CRACKING OF THE SKIN.
SKIN ABSORPTION.....	N.AV.
EYE CONTACT.....	MAY IRRITATE OR BURN EYES. SIMILAR FOR THE AQUEOUS SOLUTION. THE DUST BECOMES ACIDIC FOLLOWING CONTACT WITH MOISTURE IN THE EYE AND MAY RESULT IN MODERATE TO SEVERE IRRITATION TO EYES.
INHALATION.....	DUST OR MIST INHALATION MAY IRRITATE NOSE, THROAT AND LUNGS.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

INGESTION.....	MAY IRRITATE THE GASTROINTESTINAL TRACT AND CAUSE NAUSEA, VOMITING AND PURGING. ACUTE EXPOSURE CAN CAUSE INCOORDINATION, MUSCLE SPASMS AND KIDNEY EFFECTS.
EFFECTS OF ACUTE EXPOSURE.....	SEE ABOVE.
EFFECTS OF CHRONIC EXPOSURE.....	N.AV.
SIGNS AND SYMPTOMS OF OVEREXPOSURE .....	ALUMINUM SULPHATE HAS BEEN SHOWN TO CAUSE LIVER, KIDNEY AND NERVOUS SYSTEM TOXICITY WHEN TESTED IN LABORATORY ANIMALS. REPEATED INGESTION MAY CAUSE PHOSPHATE DEFICIENCY, WHICH CAN WEAKEN BONES. ALUMINUM SULPHATE HAS BEEN SHOWN TO CAUSE AN INCREASE IN CHROMOSOMAL BREAKS WHEN TESTED IN RAT SOMATIC CELLS IN VIVO AND TO INDUCE SISTER CHROMATID EXCHANGES, CHROMOSOMAL ABERRATIONS AND MICRONUCLEI IN HUMAN LEUKOCYTES UNDER IN VITRO CONDITIONS. SKIN IRRITATION MAY BE AGGRAVATED IN INDIVIDUALS WITH EXISTING SKIN LESIONS. BREATHING OF DUST MAY AGGRAVATE ACUTE OR CHRONIC ASTHMA AND CHRONIC PULMONARY DISEASE SUCH AS EMPHYSEMA AND BRONCHITIS.
CARCINOGENICITY OF MATERIAL.....	NOT LISTED BY IARC OR ACGIH.
TERATOGENICITY.....	N.AV.
MUTAGENICITY.....	N.AV.
REPRODUCTIVE EFFECTS.....	N.AV.
SENSITIZING CAPABILITY OF MATERIAL .....	N.AV.
SYNERGISTIC MATERIALS.....	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.....	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:	N.AV.
SPECIAL PRECAUTIONS IN CONNECTION WITH TRANSPORT OR CONVEYANCE EITHER WITHIN OR OUTSIDE THE PREMISES:	N.AV.

**SECTION 15: REGULATORY INFORMATION**

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

**SECTION 16: OTHER INFORMATION**N.AV.=NOT AVAILABLE  
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 THEY ARE APPROPRIATE.

PREPARED BY..... REGULATORY AFFAIRS

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**SECTION 16: OTHER INFORMATION**

PREPARATION DATE..... APR 17/2017