



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

PRODUCT: SUPER-PUCKS

CODE: MUR0024

Section 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER/SUPPLIER..... MURSATT CHEMICALS LIMITED
11 REGALCREST COURT
WOODBIDGE, ONTARIO
CANADA
L4L 8P3
PREPARED BY..... REGULATORY AFFAIRS
PREPARATION DATE..... Apr18/14
PRODUCT NAME..... SUPER-PUCKS
PRODUCT CODE..... MUR0024
CHEMICAL FORMULA..... C3CL3N3O3.
MOLECULAR WEIGHT..... 232.41.
CHEMICAL FAMILY..... CHLOROISOCYANURATE.
MATERIAL USE..... N.AV.
EMERGENCY PHONE NO..... CANUTEC (613)-996-6666.

Section 02: HAZARDS IDENTIFICATION

ROUTE OF ENTRY:
SKIN CONTACT..... DIRECT CONTACT ON WET SKIN MAY CAUSE SEVERE IRRITATION, PAIN AND POTENTIAL BURNS.
SKIN ABSORPTION..... N.AV.
EYE CONTACT..... DIRECT EYE CONTACT MAY CAUSE SEVERE IRRITATION, PAIN, BURNS, AND PERMANENT DAMAGE INCLUDING BLINDNESS.
INHALATION..... THE PRODUCT GRANULES SHOULD NOT CAUSE ANY RESPIRATORY PROBLEMS. IF GROUND OR IN POWDERY FORM, INHALING CAN CAUSE MUCOUS MEMBRANE IRRITATION WITH COUGHING AND SHORTNESS OF BREATH.
INGESTION..... INGESTION MAY CAUSE IMMEDIATE PAIN AND SEVERE BURNS OF THE MUCOUS MEMBRANES IN THE MOUTH, ESOPHAGUS AND GASTROINTESTINAL TRACT. .
EFFECTS OF ACUTE EXPOSURE..... VERY HAZARDOUS IN CASE OF EYE CONTACT AND CONTACT WITH WET SKIN.
EFFECTS OF CHRONIC EXPOSURE..... SEE ABOVE.
EFFECTS OF CHRONIC EXPOSURE..... N.AV.

Section 03: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	%	Exposure Limit	C.A.S.#	LD/50, Route,Species	LC/50 Route,Species
TRICHLOROISOCYANURIC ACID	60-100	SEE SECTION 11	87-90-1	809 MG/KG (ORAL, RAT); >5,000 MG/KG (DERMAL-RAT).	N.AV.

Section 04: FIRST AID MEASURES

EYE CONTACT..... CHECK FOR AND REMOVE ANY CONTACT LENSES. IMMEDIATELY FLUSH EYES WITH CLEAN WATER FOR AT LEAST 15 MINUTES. RETRACT EYELIDS TO ENSURE COMPLETE WASH OF ALL EYE AND LID TISSUES. IN CASE OF CONTINUED IRRITATION, GET MEDICAL ATTENTION IMMEDIATELY.
SKIN CONTACT..... IN CASE OF CONTACT WITH SKIN, WASH OFF IMMEDIATELY WITH PLENTY OF WATER. IMMEDIATELY REMOVE ALL CONTAMINATED CLOTHING INCLUDING FOOTWEAR. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.
INHALATION..... IF INHALED, REMOVE TO FRESH AIR. IF IRREGULAR OR NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, OXYGEN SHOULD BE ADMINISTERED BY QUALIFIED PERSONNEL. CALL FOR MEDICAL ATTENTION IMMEDIATELY.
INGESTION..... IF VICTIM IS CONSCIOUS AND ALERT, ALLOW TO RINSE MOUTH, AND THEN DRINK TWO CUPS OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. IF VOMITING OCCURS SPONTANEOUSLY, KEEP AIRWAY CLEAR. DRINK MORE WATER WHEN VOMITING STOPS. SEEK MEDICAL ATTENTION IMMEDIATELY.
NOTES TO PHYSICIAN..... N.AV.

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Section 05: FIRE FIGHTING MEASURES

T.D.G. FLAM. CLASS.....	NOT REGULATED.
FLAMMABILITY.....	NON FLAMMABLE.
EXTINGUISHING MEDIA.....	FLOOD WITH PLENTY OF WATER. DO NOT USE DRY CHEMICALS, CARBON DIOXIDE OR HALOGENATED EXTINGUISHING AGENTS.
SPECIAL PROCEDURES.....	DO NOT INHALE EXPLOSION OR COMBUSTION GASES. IN CASE OF COMBUSTION USE AN APPROVED/CERTIFIED RESPIRATOR OR EQUIVALENT. WEAR PROTECTIVE CLOTHING. ISOLATE HAZARD AREA AND DENY ENTRY. CONSIDER EVACUATION OF PERSONNEL LOCATED DOWNWIND. COLLECT CONTAMINATED FIREFIGHTING WATER SEPARATELY. DO NOT DISCHARGE CONTAMINATED WATER INTO DRAINS. DISPOSE CONTAMINATED DRUMS AND DAMAGED OR DAMP MATERIAL IN A PROPER MANNER. CONTACT COMPANY FOR FURTHER INSTRUCTIONS.
FLASH POINT (C), METHOD.....	N.AP.
AUTO IGNITION TEMPERATURE.....	N.AV.
UPPER FLAMMABLE LIMIT (% BY VOL.)....	N.AP.
LOWER FLAMMABLE LIMIT (% BY VOL.)...	N.AP.
EXPLOSION DATA.....	N.AV.
EXPLOSIVE POWER.....	N.AV.
RATE OF BURNING.....	N.AV.
SENSITIVITY TO STATIC DISCHARGE.....	N.AV.
SENSITIVITY TO IMPACT.....	N.AV.
HAZARDOUS COMBUSTION PRODUCTS..	SEE HAZARDOUS DECOMPOSITION PRODUCTS.
FIRE AND EXPLOSION HAZARDS.....	FIRE HAZARDS FROM THIS COMPOUND ARE NEGLIGIBLE. IN CASE OF COMBUSTION OR HEAT BY AN OUTSIDE SOURCE (TEMPERATURES > 240 OC), THE PRODUCT WILL RELEASE UNDER A SELF-SUSTAINING DECOMPOSITION DENSE NOXIOUS GASES (E.G. HYDROGEN OXIDE, NITROUS OXIDES) WITHOUT VISIBLE FLAME. WET MATERIAL MAY GENERATE NITROGEN TRICHLORIDE, AN EXPLOSION HAZARD.

Section 06: ACCIDENTAL RELEASE MEASURES

ENVIRONMENTAL PRECAUTIONS.....	ISOLATE HAZARD AREA AND KEEP UNNECESSARY PEOPLE AWAY. WEAR CHEMICAL SAFETY GOGGLES. HAVE SUITABLE CLOTHING AND GLOVES, AVOID EXPOSING SKIN. A SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED, IF WORKING IN CONTAMINATED AREA. REMOVE CLOTHING IMMEDIATELY AFTER WORK. WASH HANDS THOROUGHLY BEFORE EATING, DRINKING, SMOKING OR USING THE TOILET.
PERSONAL PRECAUTIONS.....	STOP LEAK IF WITHOUT RISK. DO NOT GET WATER INSIDE CONTAINER. AVOID RAISING DUST. ENSURE VENTILATION AND CIRCULATION OF AIR. PREVENT ENTRY INTO SEWERS, WATER SUPPLIES AND CONFINED AREAS. DAMP MATERIAL/PRODUCT SHOULD BE NEUTRALIZED TO A NON-OXIDIZING STATE. WHEN MATERIAL IS BEING REMOVED, FOLLOW THE DIRECTIONS UNDER HANDLING AND STORAGE. CALL FOR FURTHER ASSISTANCE ON DISPOSAL.

Section 07: HANDLING AND STORAGE

HANDLING PROCEDURES AND EQUIPMENT	DO NOT GET IN EYES, ON SKIN, AND OR ON CLOTHING. AVOID BREATHING DUST AND VAPORS WHEN OPENING PRODUCT CONTAINERS. ENSURE ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. NEVER ADD WATER TO THIS PRODUCT; ALWAYS ADD THE PRODUCT TO LARGE QUANTITIES OF WATER. USE CLEAN AND DRY UTENSILS.
STORAGE NEEDS.....	FOLLOW ALL CURRENT REGULATIONS AND STANDARDS. KEEP PROPERLY LABELED PRODUCT CONTAINER TIGHTLY CLOSED AND DRY IN A COOL, WELL VENTILATED AREA. KEEP AWAY FROM HEAT AND DIRECT SUNLIGHT. KEEP AWAY FROM FOOD, DRINK, ANIMAL FEED. KEEP AWAY FROM POTENTIAL SOURCES OF IGNITION AND ANY INCOMPATIBLE SUBSTANCES.

Section 08: EXPOSURE CONTROLS AND PERSONAL PROTECTION

GLOVES/ TYPE.....	WEAR SUITABLE GLOVES.
RESPIRATORY/TYPE.....	WEAR APPROVED/CERTIFIED RESPIRATOR OR EQUIVALENT WHEN VENTILATION IS INADEQUATE.
EYE/TYPE.....	WEAR PROTECTIVE CHEMICAL SAFETY GOGGLES.
FOOTWEAR/TYPE.....	WEAR APPROPRIATE PROTECTIVE FOOTWEAR.
CLOTHING/TYPE.....	DEPENDING OF THE AMOUNT OF PRODUCT HANDLED, WEAR FULL PROTECTIVE CLOTHING TO MINIMIZE SKIN CONTACT.
OTHER/TYPE.....	EYE WASH FOUNTAIN AND SAFETY SHOWER SHOULD BE LOCATED IN IMMEDIATE WORK AREA.
ENGINEERING CONTROLS.....	USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION OR OTHER ENGINEERING CONTROLS TO KEEP AIRBORNE LEVELS LOW. USE RESPIRATOR IN DUST-LADEN ATMOSPHERE.

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HYGIENE MEASURES..... REMOVE CLOTHING IMMEDIATELY AFTER WORK. WASH HANDS, FOREARMS, AND FACE THOROUGHLY BEFORE EATING, DRINKING, SMOKING, USING THE TOILET AND AT THE END OF THE DAY.

Section 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE..... SOLID. WHITE GRANULES.
 ODOUR..... CHLORINE.
 ODOUR THRESHOLD..... N.AV.
 VAPOUR PRESSURE (MMHG)..... N.AV.
 VAPOUR DENSITY (AIR=1)..... N.AV.
 EVAPORATION RATE..... N.AP.
 BOILING POINT..... N.AP.
 MELTING POINT (C)..... N.AV.
 DECOMPOSITION TEMPERATURE..... 225 (C).
 PH..... 3.0.
 SPECIFIC GRAVITY (WATER=1)..... N.AV.
 BULK DENSITY..... 2.07 G/CM3 AT 25°C OR 850 KG/M3.
 SOLUBILITY IN WATER (% W/W)..... 12 G/L IN WATER AT 25 (C).
 COEFFICIENT OF WATER/OIL DIST..... N.AV.

Section 10: STABILITY AND REACTIVITY

STABILITY..... THE PRODUCT IS STABLE UNDER NORMAL TEMPERATURES AND PRESSURES. KEEP PRODUCT DRY. FOLLOW INSTRUCTIONS UNDER HANDLING AND STORAGE.

CONDITIONS TO AVOID..... AVOID CONTACT WITH ANY OXIDIZABLE ORGANIC MATERIAL.
 REACTIVITY CONDITIONS..... WET MATERIAL MAY GENERATE NITROGEN TRICHLORIDE, A POTENTIAL EXPLOSION HAZARD.

MATERIALS TO AVOID..... INCOMPATIBLE PRODUCTS ARE ACIDS, AMMONIA, BASES, CALCIUM HYPOCHLORITE, REDUCING AGENTS AND ORGANIC SOLVENTS.

HAZARDOUS PRODUCTS OF DECOMPOSITION..... HAZARDOUS DECOMPOSITION AND COMBUSTION PRODUCTS SUCH AS CHLORINE, CYANOGENS CHLORIDE, HYDROGEN OXIDE, NITROGEN, NITROGEN TRICHLORIDE, NITROUS OXIDES, PHOSGENE CAN BE GENERATED WHEN IN CONTACT WITH HEAT OR WATER.

HAZARDOUS POLYMERIZATION..... WILL NOT OCCUR.

Section 11: TOXICOLOGICAL INFORMATION

EXPOSURE LIMIT OF MATERIAL..... N.AV.
 LC 50 OF MATERIAL, SPECIES & ROUTE.. SEE SECTION 03.
 LD 50 OF MATERIAL, SPECIES & ROUTE.. SEE SECTION 03.
 CARCINOGENICITY OF MATERIAL..... IARC: NOT LISTED.
 REPRODUCTIVE EFFECTS..... N.AV.
 IRRITANCY OF MATERIAL..... SEE SECTION 02.
 SENSITIZING CAPABILITY OF MATERIAL. N.AV.
 SYNERGISTIC MATERIALS..... N.AV.
 MUTAGENICITY..... N.AV.
 TERATOGENICITY..... N.AV.

Section 12: ECOLOGICAL CONSIDERATIONS

ECOLOGICAL INFORMATION..... TCCA IS HIGHLY TOXIC TO FISH. DO NOT DISCHARGE INTO LAKES, PONDS, STREAM, OR PUBLIC WATERS UNLESS IN ACCORDANCE WITH THE PERMIT OF OFFICIAL REGULATIONS. ON CONTACT WITH MOISTURE, TCCA READILY DECOMPOSE TO CHLORINE, HYPOCHLOROUS ACID AND CYANURIC ACID. CHLORINE AND HYPOCHLOROUS ACID ARE KNOWN TO BE TOXIC TO WILDLIVES, ESPECIALLY TO FISH.

Section 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL..... DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. IF MATERIAL IS DRY, INCINERATION IS RECOMMENDED. IN CASE DISPOSAL IS DONE AFTER MELTING THE MATERIAL BY COPIOUS AMOUNT OF WATER AND NEUTRALIZING TO A NON-OXIDIZING RESIDUE, OBSERVE GOVERNMENT AND LOCAL REGULATIONS. UNNEUTRALIZED MATERIAL SHOULD NOT BE DISPOSED.

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Section 14: TRANSPORT INFORMATION

TDG CLASSIFICATION..... 5.1.
PROPER SHIPPING NAME..... TRICHLOROISOCYANURIC ACID, DRY.
UN NUMBER..... 2468.
PACKING GROUP..... II.
SPECIAL SHIPPING INSTRUCTIONS..... N.AV.

Section 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION..... REGISTERED PEST CONTROL PRODUCT. EXEMPT FROM WHMIS CLASSIFICATION.
CPR COMPLIANCE..... THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

Section 16: OTHER INFORMATION

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