



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

PRODUCT: PUCKS

CODE: MUR0023

## SECTION 01: IDENTIFICATION

PRODUCT CODE..... MUR0023  
 PRODUCT IDENTIFIER..... PUCKS  
 OTHER MEANS OF IDENTIFICATION..... N.AV.  
 RECOMMENDED USE AND ..... CONSUMER PRODUCTS: POOL & SPA WATER TREATMENT PRODUCT.  
 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..... OXIDIZING SOLIDS - CATEGORY 2. ACUTE TOXICITY (ORAL) - CATEGORY 4. EYE IRRITATION - CATEGORY 2A . SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - CATEGORY 3 RESPIRATORY SYSTEM. ACUTE AQUATIC TOXICITY - CATEGORY 1. CHRONIC AQUATIC TOXICITY - CATEGORY 1.

SIGNAL WORD..... DANGER.

HAZARD STATEMENT..... H272 MAY INTENSIFY FIRE; OXIDIZER. H302 HARMFUL IF SWALLOWED. H319 CAUSES SERIOUS EYE IRRITATION. H335 MAY CAUSE RESPIRATORY IRRITATION. H410 VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

PRECAUTIONARY STATEMENT..... P210 KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. – NO SMOKING. P220 KEEP/STORE AWAY FROM CLOTHING/COMBUSTIBLE MATERIALS. P221 TAKE ANY PRECAUTION TO AVOID MIXING WITH COMBUSTIBLES.... P261 AVOID BREATHING DUST/FUME/GAS/MIST/VAPOURS/SPRAY. P264 WASH SKIN THOROUGHLY AFTER HANDLING. P270 DO NO EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. P271 USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA. P273 AVOID RELEASE TO THE ENVIRONMENT. P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION. P301+P312+P330 IF SWALLOWED: CALL A POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL. RINSE MOUTH. P304+P340+P312 IF INHALED: REMOVE VICTIM TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING. CALL A POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL. P305+P351+P338 IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. P337+P313 IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/ATTENTION. P370+P378 IN CASE OF FIRE: USE DRY SAND, DRY CHEMICAL OR ALCOHOL-RESISTANT FOAM FOR EXTINCTION. P391 COLLECT SPILLAGE. P403+P233 STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED. P405 STORE LOCKED UP. P501 DISPOSE OF CONTENTS/CONTAINER TO APPROPRIATE WASTE SITE OR RECLAIMER IN ACCORDANCE WITH LOCAL AND NATIONAL REGULATIONS.

OTHER HAZARDS..... NONE.

## SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
TRICHLOROISOCYANURIC ACID	87-90-1	60-100

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**SECTION 04: FIRST AID MEASURES**

## DESCRIPTION OF FIRST AID MEASURES:

EYE CONTACT.....	CHECK FOR AND REMOVE ANY CONTACT LENSES. IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 20 MINUTES, OCCASIONALLY LIFTING THE UPPER AND LOWER EYELIDS. GET MEDICAL ATTENTION IMMEDIATELY.
SKIN CONTACT.....	IN CASE OF CONTACT, IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 20 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. WASH CLOTHING BEFORE REUSE. GET MEDICAL ATTENTION IMMEDIATELY.
INHALATION.....	MOVE EXPOSED PERSON TO FRESH AIR. IF NOT BREATHING, IF BREATHING IS IRREGULAR OR IF RESPIRATORY ARREST OCCURS, PROVIDE ARTIFICIAL RESPIRATION OR OXYGEN BY TRAINED PERSONNEL. LOOSEN TIGHT CLOTHING SUCH AS A COLLAR, TIE, BELT OR WAISTBAND. GET MEDICAL ATTENTION IMMEDIATELY.
INGESTION.....	WASH OUT MOUTH WITH WATER. DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION IMMEDIATELY.
MOST IMPORTANT SYMPTOMS AND EFFECTS, ACUTE OR DELAYED:	SEE SECTION 11.
INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED	NO ACTION SHALL BE TAKEN INVOLVING ANY PERSONAL RISK OR WITHOUT SUITABLE TRAINING. IF IT IS SUSPECTED THAT FUMES ARE STILL PRESENT, THE RESCUER SHOULD WEAR AN APPROPRIATE MASK OR SELF-CONTAINED BREATHING APPARATUS. IT MAY BE DANGEROUS TO THE PERSON PROVIDING AID TO GIVE MOUTH -TO - MOUTH RESUSCITATION.

**SECTION 05: FIRE FIGHTING MEASURES**

SUITABLE EXTINGUISHING MEDIA.....	USE FLOODING QUANTITIES OF WATER.
UNSUITABLE EXTINGUISHING MEDIA.....	DO NOT USE DRY CHEMICAL EXTINGUISHERS CONTAINING AMMONIUM COMPOUNDS. DO NOT USE WATER OR FOAM.
SPECIAL HAZARDS ARISING FROM THE PRODUCT:	STRONG OXIDIZING AGENT. CONTAIN COMBUSTIBLE MATERIAL THAT CAN RELEASE HYDROGEN OR OXYGEN WHEN HEATED. CAN REACT VIOLENTLY WITH CALCIUM HYPOCHLORITE CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE. ON CONTACT WITH NITROGEN COMPOUNDS, NITROGEN TRICHLORIDE FUMES CAN BE FORMED, WHICH ARE EXPLOSIVE.
HAZARDOUS COMBUSTION PRODUCTS.	CARBON DIOXIDE, CARBON MONOXIDE, NITROGEN OXIDES, HALOGENATED COMPOUNDS.
SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS:	FIRE-FIGHTERS SHOULD WEAR APPROPRIATE PROTECTIVE EQUIPMENT AND SELF-CONTAINED BREATHING APPARATUS (SCBA) WITH A FULL FACE-PIECE OPERATED IN POSITIVE PRESSURE MODE. PROMPTLY ISOLATE THE SCENE BY REMOVING ALL PERSONS FROM THE VICINITY OF THE INCIDENT IF THERE IS A FIRE. NO ACTION SHALL BE TAKEN INVOLVING ANY PERSONAL RISK OR WITHOUT SUITABLE TRAINING.

**SECTION 06: ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS.....	NO ACTION SHALL BE TAKEN INVOLVING ANY PERSONAL RISK OR WITHOUT SUITABLE TRAINING. EVACUATE SURROUNDING AREAS. KEEP UNNECESSARY AND UNPROTECTED PERSONNEL FROM ENTERING. DO NOT TOUCH OR WALK THROUGH SPILLED MATERIAL. AVOID BREATHING DUST. PROVIDE ADEQUATE VENTILATION. WEAR APPROPRIATE RESPIRATOR WHEN VENTILATION IS INADEQUATE. PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8).
ENVIRONMENTAL PRECAUTIONS.....	AVOID DISPERSAL OF SPILLED MATERIAL AND RUNOFF AND CONTACT WITH SOIL, WATERWAYS, DRAINS AND SEWERS. INFORM THE RELEVANT AUTHORITIES IF THE PRODUCT HAS CAUSED ENVIRONMENTAL POLLUTION (SEWERS, WATERWAYS, SOIL OR AIR).
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP	SMALL SPILL - MOVE CONTAINERS FROM SPILL AREA. AVOID DUST GENERATION. DO NOT DRY SWEEP. PLACE SPILLED MATERIAL IN A DESIGNATED, LABELED WASTE CONTAINER. VACUUM DUST WITH EQUIPMENT FITTED WITH A HEPA FILTER AND PLACE IN A CLOSED, LABELED WASTE CONTAINER. DISPOSE OF VIA A LICENSED WASTE DISPOSAL CONTRACTOR. LARGE SPILL - MOVE CONTAINERS FROM SPILL AREA. APPROACH RELEASE FROM UPWIND. AVOID CREATING DUSTY CONDITIONS AND PREVENT WIND DISPERSAL. PREVENT ENTRY INTO SEWERS, WATER COURSES, BASEMENTS OR CONFINED AREAS. AVOID DUST GENERATION. DO NOT DRY SWEEP. VACUUM DUST WITH EQUIPMENT FITTED WITH A HEPA FILTER AND PLACE IN A CLOSED, LABELED WASTE CONTAINER. DISPOSE OF VIA A LICENSED WASTE DISPOSAL CONTRACTOR.

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**SECTION 07: HANDLING AND STORAGE**

PRECAUTIONS FOR SAFE HANDLING:..... PUT ON SUGGESTED PERSONAL PROTECTIVE EQUIPMENT WHEN HANDLING THE PRODUCT. AVOID CONTACT WITH SKIN AND EYES. DO NOT INGEST. THIS PRODUCT IS FORMULATED FOR COMMERCIAL, INSTITUTIONAL AND INDUSTRIAL USES ONLY.

CONDITIONS FOR SAFE STORAGE, ..... STORE IN COOL VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED WHEN INCLUDING ANY INCOMPATIBILITIES: PRODUCT IS STORED. PROTECT FROM FREEZING. KEEP OUT OF REACH OF CHILDREN.

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

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
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TRICHLOROISOCYANURIC ACID	N.A.V.	N.A.V.	N.A.V.	N.A.V.	N.A.V.	N.A.V.
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APPROPRIATE ENGINEERING CONTROLS GENERAL ROOM VENTILATION IS ADEQUATE FOR THE USE OF THIS PRODUCT.

HAND PROTECTION..... USE CHEMICAL IMPERVIOUS PROTECTIVE GLOVES.

RESPIRATORY PROTECTION..... WEAR APPROVED/CERTIFIED RESPIRATOR OR EQUIVALENT WHEN VENTILATION IS INADEQUATE.

EYE PROTECTION..... WEAR PROTECTIVE CHEMICAL SAFETY GOGGLES.

PROTECTIVE CLOTHING..... CHEMICAL RESISTANT PROTECTIVE CLOTHING.

PROTECTIVE FOOTWEAR..... CHEMICAL RESISTANT SAFETY SHOES OR BOOTS.

OTHER..... EYE WASH FOUNTAIN AND SAFETY SHOWER SHOULD BE LOCATED IN IMMEDIATE WORK AREA.

HYGIENIC PRACTICES..... WASH HANDS, FOREARMS AND FACE THOROUGHLY AFTER HANDLING CHEMICAL PRODUCTS, BEFORE EATING, SMOKING AND USING THE LAVATORY AND AT THE END OF THE WORKING PERIOD. APPROPRIATE TECHNIQUES SHOULD BE USED TO REMOVE POTENTIALLY CONTAMINATED CLOTHING. WASH CONTAMINATED CLOTHING BEFORE REUSING.

**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE..... SOLID. CRYSTALLINE POWDER.

COLOR..... WHITE.

ODOUR..... PUNGENT. STRONG.

ODOUR THRESHOLD..... N.A.V.

PH..... 3 @ 1% W/W.

MELTING POINT (C)..... 249.01 TO 251.01 C (480.2 TO 483.8 F).

BOILING POINT..... N.A.P.

FLASH POINT (C), METHOD..... N.A.P.

EVAPORATION RATE..... N.A.P.

FLAMMABILITY (SOLIDS AND GASES)..... N.A.V.

UPPER FLAMMABLE LIMIT (% BY VOL.)... N.A.P.

LOWER FLAMMABLE LIMIT (% BY VOL.)... N.A.P.

VAPOUR PRESSURE (MMHG)..... N.A.V.

VAPOUR DENSITY (AIR=1)..... N.A.V.

RELATIVE DENSITY..... N.A.V.

SOLUBILITY IN WATER (% W/W)..... PARTIALLY SOLUBLE IN COLD WATER AND HOT WATER.

COEFFICIENT OF WATER/OIL DIST..... N.A.V.

AUTO IGNITION TEMPERATURE..... N.A.V.

DECOMPOSITION TEMPERATURE..... N.A.V.

VISCOSITY..... NO DATA.

**SECTION 10: STABILITY AND REACTIVITY**

REACTIVITY:..... WATER REACTIVE.

CHEMICAL STABILITY:..... UNDER NORMAL CONDITIONS OF STORAGE AND USE, HAZARDOUS DECOMPOSITION PRODUCTS SHOULD NOT BE PRODUCED.

POSSIBILITY OF HAZARDOUS REACTIONS:..... HAZARDOUS REACTIONS OR INSTABILITY MAY OCCUR UNDER CERTAIN CONDITIONS OF STORAGE OR USE. REACTS WITH WATER AND STEAM TO PRODUCE TOXIC AND CORROSIVE FUMES.

CONDITIONS TO AVOID..... MOISTURE - REACTIVE MATERIAL.

INCOMPATIBLE MATERIALS:..... REACTS VIOLENTLY WITH CALCIUM HYPOCHLORITE.

HAZARDOUS PRODUCTS OF DECOMPOSITION..... SEE ABOVE.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
TRICHLOROISOCYANURIC ACID	<545 MG/M3 (INH, RAT) - 4H	406 MG/KG (ORAL, RAT); >5,000 MG/KG (DERMAL-RAT).
INFORMATION ON LIKELY ROUTES OF ENTRY:		
SKIN CONTACT.....	SEVERELY IRRITATING TO THE SKIN.	
SKIN ABSORPTION.....	N.AV.	
EYE CONTACT.....	SEVERELY IRRITATING TO EYES. RISK OF SERIOUS DAMAGE TO EYES.	
INHALATION.....	SEVERELY IRRITATING TO THE RESPIRATORY SYSTEM. EXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SERIOUS EFFECTS MAY BE DELAYED FOLLOWING EXPOSURE.	
INGESTION.....	HARMFUL IF SWALLOWED.	
EFFECTS OF ACUTE EXPOSURE.....	SEE ABOVE.	
EFFECTS OF CHRONIC EXPOSURE.....	REPEATED OR PROLONGED INHALATION OF DUST MAY LEAD TO CHRONIC RESPIRATORY IRRITATION.	
SIGNS AND SYMPTOMS OF OVEREXPOSURE.....	INHALATION - ADVERSE SYMPTOMS MAY INCLUDE RESPIRATORY TRACT IRRITATION AND COUGHING. SKIN - ADVERSE SYMPTOMS MAY INCLUDE IRRITATION AND REDNESS. EYE - ADVERSE SYMPTOMS MAY INCLUDE PAIN OR IRRITATION, WATERING AND REDNESS. INGESTION - ADVERSE SYMPTOMS MAY INCLUDE NAUSEA OR VOMITING, DIARRHEA, STOMACH PAINS.	
CARCINOGENICITY OF MATERIAL.....	IARC: NOT LISTED.	
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.....	TOXIC TO AQUATIC ORGANISMS.
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. 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**

UN NUMBER.....	2468.
PROPER SHIPPING NAME.....	TRICHLOROISOCYANURIC ACID, DRY.
TDG CLASSIFICATION.....	5.1.
PACKING GROUP.....	II.
ENVIRONMENTAL HAZARDS ACCORDING TO THE INTERNATIONAL MARITIME DANGEROUS GOODS CODE AND THE UNITED NATIONS MODEL REGULATIONS:	MARINE POLLUTANT.
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.
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**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.....  
PREPARATION DATE.....

REGULATORY AFFAIRS  
APR 17/2017