



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

PRODUCT: SPA SHINE

CODE: MUR0061

SECTION 01: IDENTIFICATION

PRODUCT CODE..... MUR0061
 PRODUCT IDENTIFIER..... SPA SHINE
 OTHER MEANS OF IDENTIFICATION..... N.AV.
 RECOMMENDED USE AND WATER TREATMENT AGENT.
 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. SKIN IRRITATION — CATEGORY 2. SERIOUS EYE DAMAGE - CATEGORY 1.
 SIGNAL WORD..... DANGER.
 HAZARD STATEMENT..... H272 MAY INTENSIFY FIRE; OXIDIZER. H302 HARMFUL IF SWALLOWED. H315 CAUSES SKIN IRRITATION. H318 CAUSES SERIOUS EYE DAMAGE.
 PRECAUTIONARY STATEMENT..... P210 KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. – NO SMOKING. P362+P364 TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE REUSE. P305+P351+P338 IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. P310 IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN. P220 KEEP/STORE AWAY FROM CLOTHING/COMBUSTIBLE MATERIALS. P221 TAKE ANY PRECAUTION TO AVOID MIXING WITH COMBUSTIBLES.... P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION. P370+P378 IN CASE OF FIRE: USE ONLY WATER FOR EXTINCTION. P264 WASH SKIN THOROUGHLY AFTER HANDLING. P270 DO NO EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. P301+P312 IF SWALLOWED: CALL A POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL. P331 DO NOT INDUCE VOMITING. P302+P352 IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER. P321 SPECIFIC TREATMENT (SEE SUPPLEMENTAL FIRST AID INSTRUCTIONS ON THE SAFETY DATA SHEET). P332+P313 IF SKIN IRRITATION OCCURS: GET MEDICAL ADVICE/ATTENTION.
 OTHER HAZARDS..... NONE.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
DICHLOROISOCYANURIC ACID SODIUM SALT	2893-78-9	30-60
POTASSIUM HYDROGEN PEROXOMONOSULPHATE	10058-23-8	10-30
POTASSIUM BISULFATE	7646-93-7	5-10

SECTION 04: FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES:
 EYE CONTACT..... IN CASE OF CONTACT WITH EYES, FLUSH WITH FRESH WATER. CHECK FOR AND REMOVE ANY CONTACT LENSES. CONTINUE RINSING. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. CHEMICAL BURNS MUST BE TREATED PROMPTLY BY A PHYSICIAN. GET MEDICAL ATTENTION IF BLISTERING OCCURS OR REDNESS PERSISTS. GET MEDICAL ADVICE/ATTENTION. GET MEDICAL ATTENTION IF IRRITATION PERSIST.

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SECTION 04: FIRST AID MEASURES

SKIN CONTACT.....	REMOVE CONTAMINATED CLOTHING AND WASH IT BEFORE REUSE. CHEMICAL BURNS MUST BE TREATED PROMPTLY BY A PHYSICIAN. GET MEDICAL ATTENTION IF BLISTERING OCCURS OR REDNESS PERSISTS. GET MEDICAL ATTENTION IF IRRITATION OCCUR.
INHALATION.....	MOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING. IF IT IS SUSPECTED THAT FUMES ARE STILL PRESENT, THE RESCUER SHOULD WEAR AN APPROPRIATE MASK OR SELF-CONTAINED BREATHING APPARATUS. GET MEDICAL ATTENTION IF ADVERSE HEALTH EFFECTS PERSIST OR ARE SEVERE. MAINTAIN AN OPEN AIRWAY.
INGESTION.....	RINSE MOUTH WITH WATER. DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. CHEMICAL BURNS MUST BE TREATED PROMPTLY BY A PHYSICIAN. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR. GET MEDICAL ATTENTION IF YOU FEEL UNWELL.
MOST IMPORTANT SYMPTOMS AND EFFECTS, ACUTE OR DELAYED:	FOR EYE CONTACT ADVERSE SYMPTOMS MAY INCLUDE PAIN, WATERING AND REDNESS. FOR SKIN CONTACT ADVERSE SYMPTOMS MAY INCLUDE PAIN OR IRRITATION, REDNESS. BLISTERING MAY OCCUR. FOR INGESTION ADVERSE SYMPTOMS MAY INCLUDE STOMACH PAINS, NAUSEA OR VOMITING, HEADACHE, DIARRHEA. FOR INHALATION, NO SPECIFIC SYMPTOMS UNDER NORMAL USE CONDITIONS.
INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED	N.A.V.

SECTION 05: FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA.....	USE AN EXTINGUISHING AGENT SUITABLE FOR THE SURROUNDING FIRE.
UNSUITABLE EXTINGUISHING MEDIA.....	NONE KNOWN.
SPECIAL HAZARDS ARISING FROM THE PRODUCT: HAZARDOUS COMBUSTION PRODUCTS.	OXIDIZING MATERIAL. MAY INTENSIFY FIRE. CARBON OXIDES. NITROGEN OXIDES. OXIDES OF SULPHUR. HALOGENATED COMPOUNDS. METAL OXIDES.
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. PROMPTLY ISOLATE THE SCENE BY REMOVING ALL PERSONS FROM THE VICINITY OF THE INCIDENT IF THERE IS A FIRE. NO ACTION SHOULD BE TAKEN INVOLVING ANY PERSONAL RISK OR WITHOUT SUITABLE TRAINING. MOVE CONTAINERS FROM FIRE AREA IF THIS CAN BE DONE WITHOUT RISK. USE WATER SPRAY TO KEEP FIRE-EXPOSED CONTAINERS COOL.

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. INITIATE SPILL RESPONSE PROCEDURES IF REQUIRED. PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8).
ENVIRONMENTAL PRECAUTIONS.....	DO NOT ALLOW TO ENTER DRAINS, SEWERS OR WATERCOURSES.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP	CONTAIN AND COLLECT SPILLAGE WITH NON-COMBUSTIBLE, ABSORBENT MATERIAL E.G. SAND, EARTH, VERMICULITE OR DIATOMACEOUS EARTH AND PLACE IN CONTAINER FOR DISPOSAL ACCORDING TO LOCAL REGULATIONS (SEE SECTION 13). USE A WATER RINSE FOR FINAL CLEAN-UP.

SECTION 07: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:.....	EATING, DRINKING AND SMOKING SHOULD BE PROHIBITED IN AREAS WHERE THIS MATERIAL IS HANDLED, STORED AND PROCESSED. WORKERS SHOULD WASH HANDS AND FACE BEFORE EATING, DRINKING AND SMOKING. REMOVE CONTAMINATED CLOTHING AND PROTECTIVE EQUIPMENT BEFORE ENTERING EATING AREAS. SEE SECTION 8 FOR ADDITIONAL INFORMATION ON HYGIENE MEASURES.
CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:	SEPARATE FROM REDUCING AGENTS AND COMBUSTIBLE MATERIALS. KEEP CONTAINER TIGHTLY CLOSED AND SEALED UNTIL READY FOR USE. CONTAINERS THAT HAVE BEEN OPENED MUST BE CAREFULLY RESEALED AND KEPT UPRIGHT TO PREVENT LEAKAGE. DO NOT STORE IN UNLABELED CONTAINERS. USE APPROPRIATE CONTAINMENT TO AVOID ENVIRONMENTAL CONTAMINATION. KEEP OUT OF REACH OF CHILDREN. STORE AWAY FROM INCOMPATIBLE MATERIALS.

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SECTION 08: EXPOSURE CONTROLS AND PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
DICHLOROISOCYANURIC ACID SODIUM SALT	N.A.V.	N.A.V.	N.A.V.	N.A.V.	N.A.V.	N.A.V.
POTASSIUM HYDROGEN PEROXOMONOSULPHATE	N.A.V.	N.A.V.	N.A.V.	N.A.V.	N.A.V.	N.A.V.
POTASSIUM BISULFATE	N.A.V.	N.A.V.	N.A.V.	N.A.V.	N.A.V.	N.A.V.
EXPOSURE LIMIT OF MATERIAL.....	ALUMINUM SULFATE HYDRATE: ACGIH - 2 MG/M3 TLV-TWA. FORM AS ALUMINUM (SOLUBLE SALTS); OSHA - 2 MG/M3 PEL-TWA FORM AS ALUMINUM (SOLUBLE SALTS).					
HAND PROTECTION.....	WEAR PROTECTIVE GLOVES.					
RESPIRATORY PROTECTION.....	AVOID BREATHING DUST OR VAPOR. WEAR AN OFFICIALLY APPROVED RESPIRATOR EQUIPPED WITH CHEMICAL CARTRIDGE FOR PROTECTION AGAINST CHLORINE GAS AND DUST.					
EYE PROTECTION.....	WEAR CHEMICAL SPLASH GOGGLES. WASH EYES WITH CLEAN WATER WHEN THERE IS POTENTIAL EYE CONTACT.					
PROTECTIVE FOOTWEAR.....	PROTECTIVE FOOTWEAR.					
PROTECTIVE CLOTHING.....	WEAR PROTECTIVE CLOTHING TO PREVENT SKIN CONTACT.					
OTHER.....	EYEWASH STATION AND SAFETY SHOWER IN WORK AREA.					
APPROPRIATE ENGINEERING CONTROLS	USE LOCAL EXHAUST VENTILATION.					

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE.....	SOLID. POWDER.
COLOR.....	WHITE.
ODOUR.....	CHLORINE.
ODOUR THRESHOLD.....	N.A.V.
PH.....	4.5 (1% SOLUTION).
MELTING/FREEZING POINT.....	N.A.V.
BOILING POINT.....	N.A.P.
FLASH POINT (C), METHOD.....	NONE.
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.P.
VAPOUR DENSITY (AIR=1).....	N.A.P.
RELATIVE DENSITY.....	N.A.V.
SOLUBILITY IN WATER (% W/W).....	N.A.V.
COEFFICIENT OF WATER/OIL DIST.....	N.A.V.
AUTO IGNITION TEMPERATURE.....	N.A.P.
DECOMPOSITION TEMPERATURE.....	N.A.V.
VISCOSITY.....	N.A.P.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:.....	HAZARDOUS POLYMERISATION WILL NOT OCCUR.
CHEMICAL STABILITY:.....	STABLE.
POSSIBILITY OF HAZARDOUS REACTIONS:	HAZARDOUS REACTIONS OR INSTABILITY MAY OCCUR UNDER CERTAIN CONDITIONS OF STORAGE OR USE. CONDITIONS MAY INCLUDE CONTACT WITH COMBUSTIBLE MATERIALS. REACTIONS MAY INCLUDE RISK OF CAUSING OR INTENSIFYING FIRE.
CONDITIONS TO AVOID.....	CONTACT WITH INCOMPATIBLE MATERIALS.
INCOMPATIBLE MATERIALS:.....	ACIDS, COMBUSTIBLE MATERIALS, REDUCING MATERIALS.
HAZARDOUS PRODUCTS OF DECOMPOSITION	UNDER NORMAL CONDITIONS OF STORAGE AND USE, HAZARDOUS DECOMPOSITION PRODUCTS SHOULD NOT BE PRODUCED.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
DICHLOROISOCYANURIC ACID SODIUM SALT	847.5 MG/M3 (RAT, INH - 4H)	1420 MG/KG (ORAL, RAT)
POTASSIUM HYDROGEN PEROXOMONOSULPHATE	5 MG/L (INH, RAT)	200 MG/KG (ORAL, RAT); 1100 MG/KG (DERMAL, RABBIT)

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SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
POTASSIUM BISULFATE	N.AV.	2340 MG/KG (ORAL, RAT)
INFORMATION ON LIKELY ROUTES OF ENTRY:		
SKIN CONTACT.....	MAY CAUSE SKIN IRRITATION. ADVERSE SYMPTOMS MAY INCLUDE PAIN OR IRRITATION, REDNESS. BLISTERING MAY OCCUR.	
SKIN ABSORPTION.....	N.AV.	
EYE CONTACT.....	MAY CAUSE EYE BURN. ADVERSE SYMPTOMS MAY INCLUDE PAIN, WATERING, REDNESS.	
INHALATION.....	NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS. NO SPECIFIC SYMPTOMS UNDER NORMAL USE CONDITIONS.	
INGESTION.....	HARMFUL IF SWALLOWED. MAY CAUSE BURNS TO MOUTH, THROAT AND STOMACH. ADVERSE SYMPTOMS MAY INCLUDE STOMACH PAINS, NAUSEA OR VOMITING, HEADACHE, DIARRHEA. .	
EFFECTS OF ACUTE EXPOSURE.....	SEE ABOVE.	
EFFECTS OF CHRONIC EXPOSURE.....	N.AV.	
SIGNS AND SYMPTOMS OF OVEREXPOSURE		
CARCINOGENICITY OF MATERIAL.....	NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.	
TERATOGENICITY.....	NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.	
MUTAGENICITY.....	NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.	
REPRODUCTIVE EFFECTS.....	NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.	
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.....	1479.
PROPER SHIPPING NAME.....	OXIDIZING SOLID , N.O.S. (DICHLOROISOCYANURIC 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:	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 INFORMATIONN.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

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SECTION 16: OTHER INFORMATION

OTHER INFORMATION..... 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