

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

PRODUCT: CHLOR-OUT CODE: MUR0005

SECTION 01: IDENTIFICATION

MUR0005 PRODUCT CODE..... PRODUCT IDENTIFIER.....

OTHER MEANS OF IDENTIFICATION......
RECOMMENDED USE AND

RESTRICTIONS ON USE

SUPPLIER IDENTIFIER.....

CHLOR-OUT

REDUCING AGENT FOR SPA WATER.

MURSATT CHEMICALS LIMITED 11 REGALCREST COURT WOODBRIDGE, ONTARIO

CANADA L4L 8P3

EMERGENCY PHONE NO..... CANUTEC (613)-996-6666.

SECTION 02: HAZARD IDENTIFICATION

HAZARD CLASSIFICATION..... NOT HAZARDOUS. SIGNAL WORD. NOT HAZARDOUS. HAZARD STATEMENT..... N.AP.

PRECAUTIONARY STATEMENT..... N.AP. OTHER HAZARDS..... NONE

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS HAZARDOUS INGREDIENTS CAS# WT. %

SODIUM SULFITE 7757-83-7 97 SODIUM SULFATE 7757-82-6 <3

SECTION 04: FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES:

EYE CONTACT.....

FLUSH EYES IMMEDIATELY WITH WATER FOR AT LEAST 15 MINUTES. REMOVE CONTACT LENSES IF PRESENT AFTER THE FIRST 5 MINUTES IF YOU CAN DO SO EASILY AND CONTINUE FLUSHING. GET MEDICAL ATTENTION IF IRRITATION

OCCURS AND PERSISTS. SKIN CONTACT.....

IMMEDIATELY WASH SKIN WITH PLENTY OF SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSE. GET MEDICAL

ATTENTION IF IRRITATION PERSISTS

INHALATION..... PROMPTLY REMOVE TO FRESH AIR. GET IMMEDIATE MEDICAL ATTENTION IF SIGNS OF SUFFOCATION, IRRITATION OR OTHER SYMPTOMS DEVELOP

IF CONSCIOUS, IMMEDIATELY RINSE MOUTH WITH WATER AND GIVE 1 GLASS OF INGESTION..... WATER TO DRINK. DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BE

MEDICAL PERSONNEL. GET IMMEDIATE MEDICAL ATTENTION

MOST IMPORTANT SYMPTOMS AND EFFECTS, ACUTE OR DELAYED:

MAY IRRITATE THE SKIN. MAY CAUSE IRRITATION TO THE EYES. HARMFUL IF SWALLOWED OR INHALED. MAY CAUSE SEVERE AND POSSIBLY FATAL ALLERGIC REACTIONS IF INHALED OR SWALLOWED BY SOME ASTHMATICS AND OTHER 'SULFITE-SENSITIVE' INDIVIDUALS. REACTS WITH ACIDS TO FORM TOXIC AND

IRRITATING SULFUR DIOXIDE GAS

ATTENTION AND SPECIAL TREATMENT

INDICATION OF ANY IMMEDIATE MEDICAL TREAT SYMPTOMATICALLY. NOTE POTENTIAL FOR ANAPHYLACTIC SHOCK WITH ALLERGIC INDIVIDUALS.

NEEDED

SECTION 05: FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA.....

UNSUITABLE EXTINGUISHING MEDIA..... SPECIAL HAZARDS ARISING FROM THE

PRODUCT: HAZARDOUS COMBUSTION PRODUCTS. SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS:

MATERIAL IS NOT FLAMMABLE. USE EXTINGUISHING MEDIA APPROPRIATE FOR MATERIAL IN SURROUNDING FIRE.

N.AV.

RELEASES TOXIC AND IRRITATING SULFUR DIOXIDE AT FIRE TEMPERATURES.

SEE SPECIAL HAZARDS ARISING FROM THE PRODUCT ABOVE.

WEAR NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. USE WATER-SPRAY TO KEEP CONTAINERS COOL, AND TO KNOCK DOWN VAPORS OR GASES.

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SECTION 06: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS..... PROVIDE VENTILATION TO CLEAR SULFUR DIOXIDE FUMES WHICH MAY BE

GENERATED BY CONTACT WITH WATER. WEAR APPROPRIATE PERSONAL

PROTECTIVE EQUIPMENT.

ENVIRONMENTAL PRECAUTIONS..... DO NOT ALLOW TO ENTER DRAINS, SEWERS OR WATERCOURSES.

PROMPTLY SWEEP UP MATERIAL WITH MINIMUM DUSTING AND SHOVEL INTO AN METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

EMPTY CONTAINER WITH A COVER. RINSE SPILL AREA WITH PLENTY OF WATER.

SECTION 07: HANDLING AND STORAGE

AVOID CONTACT WITH SKIN, EYES AND CLOTHING. DO NOT BREATHE DUST. DO PRECAUTIONS FOR SAFE HANDLING:.....

NOT EAT OR DRINK IN THE WORK AREA. USE NORMAL PERSONAL HYGIENE AND

HOUSEKEEPING. KEEP AWAY FROM ACIDS AND OXIDIZING AGENTS STORE IN A COOL, DRY, WELL-VENTILATED AREA AWAY FROM ACIDS AND CONDITIONS FOR SAFE STORAGE,

INCLUDING ANY IMCOMPATIBILITÉS: OXIDIZING AGENTS.

SECTION 08: EXPOSURE CONTROLS AND PERSONAL PROTECTION

INGREDIENTS	TWA	SIH TLV STEL	OSH, PEL	A PEL STEL	NIOSH REL	
SODIUM SULFITE	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.	
SODIUM SULFATE	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.	
APPROPRIATE ENGINEERING CONTROLS LOCAL EXHAUST IF DUSTY CONDITIONS EXIST OR IF THERE IS A RELEASE OF SULFUR DIOXIDE GAS. DO NOT USE IN UNVENTILATED SPACES. E.G., THE HOLDS OF FISHING BOATS, WALK-IN COOLERS OR CONFINED SPACES.						
INDIVIDUAL PROTECTI SUCH AS PERSONAL F EQUIPMENTS:		,				
HAND PROTECTION		FOR HANDLING DRY I CLOTHING, INCLUDIN SOLUTIONS AND THE IMPERVIOUS GLOVES	IG LONG-SLEEVED (RE IS PROLONGED	SHIRT AND TROUSER: OR REPEATED CONT	FULL WORK S. WHEN HANDLING ACT, WEAR	
RESPIRATORY PROT	ECTION	WHERE REQUIRED, U AND/OR SULFUR DIO MAY REQUIRE A NIOS OR SUPPLIED-AIR RE	XIDE GAS, AS COND SH-APPROVED SELF	DITIONS INDICATE. SO	ME EXPÓSURES	
EYE PROTECTION PROTECTIVE CLOTH	ING	WEAR CHEMICAL SAF SEE ABOVE.				
PROTECTIVE FOOTW OTHER	/EAK	SEE ABOVE. ENSURE THAT EYEW. THE WORK-STATION		SAFETY SHOWERS A	ARE PROXIMAL TO	
HYGIENIC PRACTICES		USE GOOD PERSONA DRINKING, OR SMOKI	L HYGIENE PRACTI NG, OR USING TOIL	CES. WASH HANDS B .ET FACILITIES. PROM THOROUGHLY BEFOR	PTLY REMOVE	

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	SOLID.
COLOR	WHITE TO PALE YELLOW CRYSTALS OR POWDER.
ODOUR	ODOURLESS.
ODOUR THRESHOLD	N.AV.
PH	5% SOLUTION – 9.8.
MELTING/FREEZING POINT	DECOMPOSES AT 900 C.
BOILING POINT	N.AP.
FLASH POINT (C), METHOD	NONE.
EVAPORATION RATE	N.AP.
FLAMMABILITY (SOLIDS AND GASES)	
UPPER FLAMMABLE LIMIT (% BY VOĹ.)	N.AP.
LOWER FLAMMABLE LIMIT (% BY VOL.)	N.AP.
VAPOUR PRESSURE (MMHG)	
VAPOUR DENSITY (AIR=1)	
RELATIVE DENSITY	2.63.
SOLUBILITY IN WATER (% W/W)	
COEFFICIENT OF WATER/OIL DIST	N.AV.
	N.AV.
DECOMPOSITION TEMPERATURE	1 200 1 2 2
VISCOSITY	
V10000111	14.7 11 .

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SECTION 10: STABILITY AND REACTIVITY

HAZARDOUS POLYMERISATION WILL NOT OCCUR. STABLE UNDER NORMAL CONDITIONS OF HANDLING AND STORAGE. CHEMICAL STABILITY:.... POSSIBILITY OF HAZARDOUS REACTS WITH ACIDS TO FORM TOXIC AND IRRITATING SULFUR DIOXIDE GAS. REACTIONS: CONDITIONS TO AVOID..... AVOID ELEVATED TEMPERATURES. TEMPERATURES ABOVE 900 C CAUSE THE RAPID EVOLUTION OF TOXIC AND CORROSIVE SULFUR DIOXIDE GAS AND HAZARDOUS RESIDUE.
OXIDIZERS: MAY CAUSE STRONG EXOTHERMIC REACTIONS. ACIDS: RELEASES INCOMPATIBLE MATERIALS:.... SULFUR DIOXIDE GAS. HAZARDOUS PRODUCTS OF SULFUR DIOXIDE AND SODIUM SULFIDE RESIDUE. SODIUM SULFIDE IS DECOMPOSITION FLAMMABLE, A DANGEROUS FIRE RISK, A STRONG IRRITANT TO SKIN AND TISSUE, AND IS INCOMPATIBLE WITH ACIDS.

SECTION 11: TOXICOLOGICAL INFORMATION

		T	1			
INGREDIENTS		LC50	LD50			
SODIUM SULFITE		>5.5 MG/L/4 HR (IHL, RAT); >22 MG/L/1 HR (IHL, RAT)	2610-6400 MG/KG (ORAL, RAT)			
SODIUM SULFATE		N.AV.	>10,000 MG/KG (ORAL, RAT)			
INFORMATION ON LIKELY ROUTES OF ENTRY:						
	REPEATED OR PROLONGED CONTACT WITH DUST MAY CAUSE IRRITATION. CONTACT WITH SOLUTIONS WILL CAUSE SKIN IRRITATION.					
SKIN ABSORPTION EYE CONTACTINHALATION	DUST OR MIST MAY INHALATION OF DUSCAUSE SEVERE OR SULFITE SENSITIVE REACTIONS INCLUDINAPID HEART RATE	ST OR MIST CAN IRRITATE THE F DEADLY ALLERGIC REACTIONS INDIVIDUALS. POSSIBLE SIGNS DE BRONCHOCONSTRICTION, SV , DECREASED BLOOD PRESSUR DS RELEASES SULFUR DIOXIDE	RESPIRATORY TRACT. MAY IN SOME ASTHMATICS AND AND SYMPTOMS OF ALLERGIC VEATING, FLUSHING, HIVES, IE, AND ANAPHYLAXIS.			
EFFECTS OF ACUTE EXPOSURE EFFECTS OF CHRONIC EXPOSURE SIGNS AND SYMPTOMS OF	MAY IRRITATE THE ALLERGIC REACTIO INDIVIDUALS LARGE CIRCULATORY DIST EVEN DEATH. SEE ABOVE.		SULFITE SENSITIVE COLIC AND DIARRHEA,			
OVEREXPOSURE CARCINOGENICITY OF MATERIAL			TED. SODIUM SULFATE: IARC			
TERATOGENICITYMUTAGENICITY	SODIUM SULFITE HASYSTEMS; HOWEVE		IDIES INVOLVING INSECTS			
REPRODUCTIVE EFFECTSSENSITIZING CAPABILITY OF MATERIAL SYNERGISTIC MATERIALS	N.AV. N.AV.					
SECTION 12: ECOLOGICAL CONSIDERATIONS						
ECOTOYICITY	N AV					

ECOTOXICITY	N.AV.
PERSISTENCE AND DEGRADATION	N.AV.
BIOACCUMULATIVE POTENTIAL	N.AV.
MOBILITY IN SOIL	N.AV.
OTHER ADVERSE EFFECTS	
OTTIER ADVERGE ETT EOTO	14.710.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS:..... DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

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SECTION 14: TRANSPORT INFORMATION

TDG CLASSIFICATION...... NOT REGULATED.

PACKING GROUP..... N.AP.

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 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. REGULATORY AFFAIRS

PREPARED BY.....

PREPARATION DATE...... JAN 1/2024