

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

PRODUCT: NEUTRALIZER CODE: MUR0054

### **SECTION 01: IDENTIFICATION**

OTHER MEANS OF IDENTIFICATION...... N.AV RECOMMENDED USE AND ...... REDU

RESTRICTIONS ON USE

SUPPLIER IDENTIFIER.....

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**

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

# SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS HAZARDOUS INGREDIENTS CAS # WT. % SODIUM SULFITE 7757-83-7 97

7757-82-6

# **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

<3

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.

INGESTION...... IF CONSCIOUS, IMMEDIATELY RINSE MOUTH WITH WATER AND GIVE 1 GLASS OF

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.

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

NEEDED

SODIUM SULFATE

# **SECTION 05: FIRE FIGHTING MEASURES**

SUITABLE EXTINGUISHING MEDIA.....

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

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

N.AV.

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

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

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 ACG	SIH TLV STEL	OSH <i>A</i> 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	G LONG-SLEEVED S RE IS PROLONGED	SHIRT AND TROUSERS OR REPEATED CONT	S. WHEN HANDLING		
RESPIRATORY PROT	ECTION	WHERE REQUIRED, U AND/OR SULFUR DIO: MAY REQUIRE A NIOS OR SUPPLIED-AIR RE	ISE A NIOSH-APPRO XIDE GAS, AS COND SH-APPROVED SELF	OVED RESPIRATOR FO DITIONS INDICATE. SO	ME EXPOSURES		
EYE PROTECTION PROTECTIVE CLOTH PROTECTIVE FOOTW	ING /EAR	SEE ABOVE. SEE ABOVE.		0.04 FETY OHOWERS 4	ADE DDOVIMAL TO		
OTHER		ENSURE THAT EYEW, THE WORK-STATION		SAFETY SHOWERS F	RE PROXIMAL TO		
HYGIENIC PRACTICES		USE GOOD PERSONA DRINKING, OR SMOKI CONTAMINATED CLO	NG, OR USING TOIL	ET FACILITIES. PROM	IPTLY REMOVE		

### SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	SOLID.
COLOR	WHITE TO PALE YELLOW CRYSTALS OR POWDER.
ODOUR	
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)	N.AV.
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)	17% AT 10C (50F); 28% AT 33C (92F).
COEFFICIENT OF WATER/OIL DIST	N.AV.
AUTO IGNITION TEMPERATURE	N.AV.
DECOMPOSITION TEMPERATURE	N.AV.
VISCOSITY	

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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**

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 ABSORPTIONEYE CONTACTINHALATION	N.AV. DUST OR MIST MAY INHALATION OF DUS CAUSE SEVERE OR SULFITE SENSITIVE REACTIONS INCLUD RAPID HEART RATE CONTACT WITH ACI	IRRITATE THE EYES. SOLUTION ST OR MIST CAN IRRITATE THE FOUND THE PROPERTY OF	IS WILL IRRITATE OR BURN. RESPIRATORY TRACT. MAY IN SOME ASTHMATICS AND AND SYMPTOMS OF ALLERGIC VEATING, FLUSHING, HIVES, EE, AND ANAPHYLAXIS.			
EFFECTS OF ACUTE EXPOSURE	ALLERGIC REACTIO INDIVIDUALS LARGE CIRCULATORY DIST EVEN DEATH.		SULFITE SENSITIVE COLIC AND DIARRHEA,			
EFFECTS OF CHRONIC EXPOSURE SIGNS AND SYMPTOMS OF						
OVEREXPOSURE CARCINOGENICITY OF MATERIAL	SODIUM SULFITE: IA & ACGIH - NOT LISTI		TED. SODIUM SULFATE: IARC			
TERATOGENICITYMUTAGENICITY	N.AV. SODIUM SULFITE HA SYSTEMS; HOWEVE		IDIES INVOLVING INSECTS			
REPRODUCTIVE EFFECTSSENSITIZING CAPABILITY OF MATERIAL SYNERGISTIC MATERIALS	N.AV. N.AV.					
SECTION 12: ECOLOGICAL CONSIDERATIONS						
FOOTOVIOITY	NI A)/					

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.

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# **SECTION 14: TRANSPORT INFORMATION**

...... N.AP.

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.....

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