

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

PRODUCT: BROME-OX CODE: MUR0003

#### **SECTION 01: IDENTIFICATION**

PRODUCT CODE......
PRODUCT IDENTIFIER.....
OTHER MEANS OF IDENTIFICATION.....
RECOMMENDED USE AND .....
RESTRICTIONS ON USE
SUPPLIER IDENTIFIER....

MUR0003 BROME-OX N.AV. N.AV.

MURSATT CHEMICALS LIMITED 11 REGALCREST COURT WOODBRIDGE, ONTARIO CANADA L4L 8P3

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

## **SECTION 02: HAZARD IDENTIFICATION**





HAZARD CLASSIFICATION..... ACUTE TOXICITY (ORAL) - CATEGORY 4. SKIN CORROSION - CATEGORY 1B. SERIOUS EYE DAMAGE - CATEGORY 1. SIGNAL WORD..... DANGER. HAZARD STATEMENT..... H302 HARMFUL IF SWALLOWED. H314 CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. PRECAUTIONARY STATEMENT..... P264 WASH SKIN THOROUGHLY AFTER HANDLING. P270 DO NO EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. P301+P312+P330 IF SWALLOWED: CALL A POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL. RINSE MOUTH. P260 DO NOT BREATHE DUST/FUME/GAS/MIST/VAPOURS/SPRAY. P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION. P301+P330+P331 IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE VOMITING. P363 WASH CONTAMINATED CLOTHING BEFORE REUSE. P304+P340+P310 IF INHALED: REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING. IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN. P321 SPECIFIC TREATMENT (SEE SUPPLEMENTAL FIRST AID INSTRUCTIONS ON THE SAFETY DATA SHEET). P305+P351+P338+P310 IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN. P405 STORE LOCKED UP. P501 DISPOSE OF

CONTENTS/CONTAINER TO APPROPRIATE WASTE SITE OR RECLAIMER IN ACCORDANCE WITH LOCAL AND NATIONAL REGULATIONS.

... NONE.

OTHER HAZARDS.....

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS					
HAZARDOUS INGREDIENTS	CAS#	WT. %			
PENTAPOTASSIUM BIS(PEROXYMONOSULPHATE) BIS(SULPHATE)	70693-62-8	60-100			
DIPOTASSIUM PEROXODISULPHATE	7727-21-1	0-5			
TETRA[CARBONATO(2-)]DIHYDROXYPENTAMAGNESIUM	7760-50-1	<2			
SODIUM CARBONATE	497-19-8	10-30			
SODIUM SULPHATE	7757-82-6	10-30			

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#### **SECTION 04: FIRST AID MEASURES**

**DESCRIPTION OF FIRST AID MEASURES:** 

RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE. IF ON SKIN, RINSE WELL WITH WATER. TAKE OFF CONTAMINATED CLOTHING AND SHOES IMMEDIATELY. IF SKIN IRRITATION PERSISTS, CALL A PHYSICIAN. WASH EYE CONTACT..... SKIN CONTACT.....

CONTAMINATED CLOTHING BEFORE RE-USE.

INHALATION..... MOVE TO FRESH AIR. OXYGEN OR ARTIFICIAL RESPIRATION IF NEEDED. CALL A

PHYSICIAN IMMEDIATELY

DO NOT INDUCE VOMITING. DRINK 1 OR 2 GLASSES OF WATER. NEVER GIVE INGESTION..... ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CALL A PHYSICIAN

IMMEDIATELY.

MOST IMPORTANT SYMPTOMS AND ...... SEE SECTION 11.

EFFECTS, ACUTE OR DELAYED: INDICATION OF ANY IMMEDIATE MEDICAL N.AV.

ATTENTION AND SPECIAL TREATMENT

NEEDED

## SECTION 05: FIRE FIGHTING MEASURES

USE EXTINGUISHING MEASURES THAT ARE APPROPRIATE TO LOCAL SUITABLE EXTINGUISHING MEDIA.....

CIRCUMSTANCES AND THE SURROUNDING ENVIRONMENT.

UNSUITABLE EXTINGUISHING MEDIA..... CARBON DIOXIDE (CO2) THE PRODUCT ITSELF DOES NOT BURN.

SPECIAL HAZARDS ARISING FROM THE

PRODUCT:

HAZARDOUS COMBUSTION PRODUCTS.

HAZARDOUS DECOMPOSITION PRODUCTS OXYGEN, SULPHUR DIOXIDE, SULPHUR TRIOXIDE. OXIDES OF CARBON. OXIDES OF SULPHUR. SODIUM OXIDE.

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE SUIT.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS:

## **SECTION 06: ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS..... EVACUATE PERSONNEL TO SAFE AREAS. USE PERSONAL PROTECTIVE

**EQUIPMENT** 

ENVIRONMENTAL PRECAUTIONS..... DO NOT ALLOW TO ENTER DRAINS, SEWERS OR WATERCOURSES. METHODS AND MATERIALS FOR ..... SWEEP UP AND SHOVEL INTO SUITABLE CONTAINERS FOR DISPOSAL. AVOID CONTAINMENT AND CLEANING UP DUST FORMATION. AFTER CLEANING, FLUSH AWAY TRACES WITH WATER.

#### SECTION 07: HANDLING AND STORAGE

USE ONLY IN WELL-VENTILATED AREAS. DO NOT BREATHE DUST. AVOID DUST PRECAUTIONS FOR SAFE HANDLING:.....

FORMATION IN CONFINED AREAS. AVOID CONTACT WITH SKIN AND EYES. KEEP

AWAY FROM HEAT AND FLAME. WASH HANDS BEFORE BREAKS AND

IMMEDIATELY AFTER HANDLING THE PRODUCT. HANDLE IN ACCORDANCE WITH

GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE.
KEEP CONTAINERS TIGHTLY CLOSED IN A DRY, COOL AND WELL-VENTILATED CONDITIONS FOR SAFE STORAGE, ....... INCLUDING ANY IMCOMPATIBILITÉS:

PLACE. PROTECT FROM CONTAMINATION. STORE IN ORIGINAL CONTAINER. KEEP AWAY FROM COMBUSTIBLE MATERIAL. NEVER ALLOW PRODUCT TO GET IN

CONTACT WITH WATER DURING STORAGE. STABLE UNDER RECOMMENDED

STORAGE CONDITIONS.

## SECTION 08: EXPOSURE CONTROLS AND PERSONAL PROTECTION

INGREDIENTS	TWA ACGI	H TLV STEL	OSHA PEL	N PEL STEL	NIOSH REL		
PENTAPOTASSIUM BIS(PEROXYMONOSUL PHATE) BIS(SULPHATE)	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.		
DIPOTASSIUM PEROXODISULPHATE	0.1 MG/M3 AS PERSULPHATE	N.AV.	N.AV.	N.AV.	N.AV.		
TETRA[CARBONATO(2-)] DIHYDROXYPENTAMAG NESIUM	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.		
SODIUM CARBONATE	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.		
SODIUM SULPHATE	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.		
APPROPRIATE ENGINEERING CONTROLS ENSURE ADEQAUTE VENTILATION.							

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# SECTION 08: EXPOSURE CONTROLS AND PERSONAL PROTECTION

INDIVIDUAL PROTECTION MEASURE SUCH AS PERSONAL PROTECTIVE **EQUIPMENTS** 

HYGIENIC PRACTICES.....

HAND PROTECTION...... IMPERVIOUS GLOVES.

RESPIRATORY PROTECTION..... WHEN WORKERS ARE FACING CONCENTRATIONS ABOVE THE EXPOSURE LIMIT

THEY MUST USE APPROPRIATE CERTIFIED RESPIRATORS. WEAR A

POSITIVE-PRESSURE SUPPLIED-AIR RESPIRATOR.
WEAR SAFETY GLASSES OR COVERALL CHEMICAL SPLASH GOGGLES. EYE PROTECTION.....

PROTECTIVE CLOTHING...... APPROPRIATE IMPERVIOUS APRON, PANTS, JACKET, HOOD.

PROTECTIVE FOOTWEAR..... IMPERMEABLE BOOTS.

ENSURE THAT EYEWASH STATIONS AND SAFETY SHOWERS ARE CLOSE TO THE OTHER.....

WORKSTATION LOCATION. USE GOOD PERSONAL HYGIENE PRACTICES. WASH HANDS BEFORE EATING, DRINKING, OR SMOKING, OR USING TOILET FACILITIES. PROMPTLY REMOVE

CONTAMINATED CLOTHING AND WASH THOROUGHLY BEFORE REUSE.

#### **SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE..... SOLID. GRANULAR. WHITE COLOR..... ODOUR..... ODOURLESS. ODOUR THRESHOLD...... N.AV. 4.5 (1% SOLUTION). MELTING POINT (C)...... N.AV. BOILING POINT...... N.AP. FLASH POINT (C), METHOD..... N.AP. EVAPORATION RATE...... N.AV. FLAMMABILITY (SOLIDS AND GASES)..... N.AV. UPPER FLAMMABLE LIMIT (% BY VOL.)... N.AP. LOWER FLAMMABLE LIMIT (% BY VOL.)... N.AP. VAPOUR PRESSURE (MMHĠ)......N.AP. SOLUBILITY IN WATER (% W/W)...... N.AV. COEFFICIENT OF WATER/OIL DIST..... N.AV. AUTO IGNITION TEMPERATURE..... N.AV. DECOMPOSITION TEMPERATURE..... N AV VISCOSITY..... N.AP.

## **SECTION 10: STABILITY AND REACTIVITY**

STABLE UNDER RECOMMENDED STORAGE CONDITIONS. REACTIVITY:....

CHEMICAL STABILITY:.... STABLE UNDER NORMAL CONDITIONS.

POSSIBILITY OF HAZARDOUS .....

REACTIONS

**DECOMPOSITION** 

## **SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
PENTAPOTASSIUM BIS(PEROXYMONOSULPHATE) BIS(SULPHATE)	N.AV.	500 MG/KG (ORAL, RAT)
DIPOTASSIUM PEROXODISULPHATE	N.AV.	1130 MG/KG (ORAL, RAT)
TETRA[CARBONATO(2-)]DIHYDROXYPENTAMAGNESIUM	N.AV.	> 2,000 MG/KG (ORAL, RAT)
SODIUM CARBONATE	, ,	4090 MG/KG (ORAL, RAT); 2210 MG/KG (DERMAL, MOUSE)
SODIUM SULPHATE	N.AV.	5989 MG/KG )ORAL, RAT)
N. I C.		

INFORMATION ON LIKELY ROUTES OF

ŠKIN CONTACT...... CAUSES BURNS. RABBIT.

INHALATION...... N.AV.

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# **SECTION 11: TOXICOLOGICAL INFORMATION**

..... HARMFUL IF SWALLOWED.

EFFECTS OF ACUTE EXPOSURE..... SEE ABOVE. EFFECTS OF CHRONIC EXPOSURE......
SIGNS AND SYMPTOMS OF N.AV.

OVEREXPOSURE

CARCINOGENICITY OF MATERIAL....... NONE OF THE COMPONENTS PRESENT IN THIS MATERIAL AT CONCENTRATIONS EQUAL TO OR GREATER THAN 0.1% ARE LISTED BY IARC, NTP, OSHA OR ACGIH

AS A CARCINOGEN.

TERATOGENICITY..... N.AV. MUTAGENICITY..... N.AV.

REPRODUCTIVE EFFECTS..... N.AV.

SENSITIZING CAPABILITY OF MATERIAL DID NOT CAUSE SENSITIZATION ON LABORATORY ANIMALS., GUINEA PIG. SYNERGISTIC MATERIALS...... N.AV.

LD 50 OF MATERIAL, SPECIES & ROUTE. > 2,000 MG/KG (DERMAL, RAT).

LC 50 OF MATERIAL, SPECIES & ROUTE. INHALATION 4 HOUR LC50: > 5 MG/L IN RATS.

#### 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... \_\_\_\_\_\_3260.

PROPER SHIPPING NAME..... CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (MONOPERSULFATE COMPOUND).

TDG CLASSIFICATION..... PACKING GROUP.....

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.

PREPARED BY..... **REGULATORY AFFAIRS** 

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