

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

PRODUCT: BROME + CODE: MUR0055

SECTION 01: IDENTIFICATION

PRODUCT CODE..... MUR0055 PRODUCT IDENTIFIER..... **BROME +**

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

RESTRICTIONS ON USE

CONSUMER PRODUCTS: POOL & SPA WATER TREATMENT PRODUCT. USES ADVISED AGAINST: ONLY USE THIS PRODUCT AS DIRECTED. READ LABEL BEFORE USING.

SUPPLIER IDENTIFIER..... MURSATT CHEMICALS LIMITED

11 REGALCREST COURT WOODBRIDGE, ONTARIO

CANADA L4L 8P3

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

SECTION 02: HAZARD IDENTIFICATION



OXIDIZING SOLIDS - CATEGORY 2. ACUTE TOXICITY (ORAL) - CATEGORY 4. SKIN HAZARD CLASSIFICATION.....

CORROSION — CATEGORY 1C. SERIOUS EYE DAMAGE - CATEGORY 1. SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (RESPIRATORY TRACT

IRRITATION) - CATEGORY 3.

SIGNAL WORD..... DANGER.

H272 MAY INTENSIFY FIRE; OXIDIZER. H302 HARMFUL IF SWALLOWED. H314 HAZARD STATEMENT.....

CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. H318 CAUSES SERIOUS EYE

DAMAGE

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.... P260 DO

NOT BREATHE DUST/FUME/GAS/MIST/VAPOURS/SPRAY. P264 WASH SKIN THOROUGHLY AFTER HANDLING. P270 DO NO EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. 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. P301+P330+P331 IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE VOMITING. P303+P361+P353 IF ON

SKIN (OR HAIR): REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER. 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. 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. P363 WASH CONTAMINATED CLOTHING BEFORE REUSE.

P370+P378 IN CASE OF FIRE: USE DRY SAND, DRY CHEMICAL OR ALCOHOL-RESISTANT FOAM FOR EXTINCTION. P391 COLLECT SPILLAGE. P405 STORE LOCKED UP. P501 DISPOSE OF CONTENTS/CONTAINER TO APPROPRIATE

WASTE SITE OR RECLAIMER IN ACCORDANCE WITH LOCAL AND NATIONAL

REGULATIONS.

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

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. 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.

REMOVE CONTAMINATED CLOTHING AND WASH IT BEFORE REUSE. CHEMICAL BURNS MUST BE TREATED PROMPTLY BY A PHYSICIAN. GET MEDICAL SKIN CONTACT.....

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 NECESSARY, CALL A

POISON CENTER OR PHYSICIAN. MAINTAIN AN OPEN AIRWAY.

RINSE MOUTH WITH WATER. DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. CHEMICAL BURNS MUST BE TREATED INGESTION.....

PROMPTLY BY A PHYSICIAN. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR.

GET MEDICAL ATTENTION IF YOU FEEL UNWELL

EYE CONTACT - ADVERSE SYMPTOMS MAY INCLUDE THE FOLLOWING: PAIN, WATERING REDNESS. SKIN CONTACT - ADVERSE SYMPTOMS MAY INCLUDE THE MOST IMPORTANT SYMPTOMS AND EFFECTS, ACUTE OR DELAYED:

FOLLOWING: PAIN OR IRRITATION, REDNESS, BLISTERING MAY OCCUR.

INGESTION - ADVERSE SYMPTOMS MAY INCLUDE THE FOLLOWING: STOMACH PAINS, NAUSEA OR VOMITING, HEADACHE, DIARRHEA. INHALATION - ADVERSE SYMPTOMS MAY INCLUDE THE FOLLOWING: RESPIRATORY TRACT IRRITATION,

COUGHING.

INDICATION OF ANY IMMEDIATE MEDICAL N.AV.

ATTENTION AND SPECIAL TREATMENT **NEEDED**

SECTION 05: FIRE FIGHTING MEASURES

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

USE AN EXTINGUISHING AGENT SUITABLE FOR THE SURROUNDING FIRE.

NONE KNOWN.

HAZARDOUS COMBUSTION PRODUCTS.

OXIDIZING MATERIAL. MAY INTENSIFY FIRE.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS:

CARBON DIOXIDE, CARBON MONOXIDE. NITROGEN OXIDES. HALOGENATED COMPOUNDS. METAL OXIDES.

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 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

NO ACTION SHALL BE TAKEN INVOLVING ANY PERSONAL RISK OR WITHOUT SUITABLE TRAINING. EVACUATE SURROUNDING AREAS. KEEP UNNECESSARY PERSONAL PRECAUTIONS.....

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)

AVOID DISPERSAL OF SPILLED MATERIAL AND RUNOFF AND CONTACT WITH SOIL ENVIRONMENTAL PRECAUTIONS.....

WATERWAYS, DRAINS AND SEWERS. INFORM THE RELEVANT AUTHORITIES IF

METHODS AND MATERIALS FOR .

CONTAINMENT AND CLEANING UP

THE PRODUCT HAS CAUSED ENVIRONMENTAL POLLUTION (SEWERS, WATERWAYS, SOIL OR AIR). 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 MÁTERIAL IS HANDLED, STORED AND PROCESSED. WORKERS SHOULD

SECTION 07: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:.....

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 IMCOMPATIBILITÉS:

STORE IN ACCORDANCE WITH LOCAL REGULATIONS. 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 (SEE SECTION 10).

SECTION 08: EXPOSURE CONTROLS AND PERSONAL PROTECTION

INGREDIENTS	ACGII TWA	H TLV STEL	OSHA PEL	PEL STEL	NIOSH REL
DICHLOROISOCYANURI C ACID SODIUM SALT	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.
APPROPRIATE ENGINE		USE ONLY WITH ADE DUST, FUMES, GAS, \ EXHAUST VENTILATION EXPOSURE TO AIRBO	APOR OR MIST, USE ON OR OTHER ENGIN	E PROCESS ENCLOSI NEERING CONTROLS	JRES, LOCAL TO KEEP WORKER

INDIVIDUAL PROTECTION MEASURE SUCH AS PERSONAL PROTECTIVE EQUIPMENTS:

HAND PROTECTION..... WEAR CHEMICAL - RESISTANT GLOVES WHILE USING OR HANDLING THIS

PRODUCT.

WEAR DUST-PROTECTION MASK FOR PROLONGED OR INTENSE EXPOSURES. CONTINUED OR SEVERE EXPOSURES MIGHT REQUIRED TO WEAR A FACE SHIELD OR CHEMICAL SPLASH GOGGLES. IT IS MINIMALLY SUGGESTED TO WEAR RESPIRATORY PROTECTION..... EYE PROTECTION.....

SAFETY GLASSES WHILE USING OR HANDLING THIS PRODUCT.

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

STATUTORY LIMITS.

PERSONAL PROTECTIVE EQUIPMENT FOR THE BODY SHOULD BE SELECTED BASED ON THE TASK BEING PERFONMED AND THE RISKS INVOLVED AND PROTECTIVE CLOTHING.....

SHOULD BE APPROVED BY A SPECIALIST BEFORE HANDLING THIS PRODUCT.

WEAR CHEMICAL-RESISTANT PROTECTIVE CLOTHING

HYGIENIC PRACTICES.....

EYEWASH STATION AND SAFETY SHOWER IN WORK AREA.
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.
COLOR	WHITE.
ODOUR	CHLORINE
ODOUR THRESHOLD	N.AV.
PH	N.AP.
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 (MMHG)	N.AP.
VAPOUR DENSITY (AIR=1)	N.AP.
RELATIVE DENSITY	1.05.
SOLUBILITY IN WATER (% W/W)	N.AV.
COEFFICIENT OF WATER/OIL DIST	N.AV.
AUTO IGNITION TEMPERATURE	N.AV.
DECOMPOSITION TEMPERATURE	N.AV.
VISCOSITY	NO DATA.
	5/11/1.

SECTION 10: STABILITY AND REACTIVITY

NO SPECIFIC TEST DATA RELATED TO REACTIVITY AVAILABLE FOR THIS REACTIVITY:.... PRODUCT OR ITS INGREDIENTS. 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 THE FOLLOWING:

CONTACT WITH COMBUSTIBLE MATERIALS REACTIONS MAY INCLUDE THE FOLLOWING: RISK OF CAUSING OR INTENSIFYING FIRE.

CONDITIONS TO AVOID..... CONTACT WITH ICOMPATIBLES. AVOID THE CREATION OF DUST WHEN HANDLING

AND AVOID ALL POSSIBLE SOURCES OF IGNITION (SPARK OR FLAME). TAKE PRECAUTIONARY MEASURES AGAINST ELECTROSTATIC DISCHARGES. TO AVOID FIRE OR EXPLOSION, DISSIPATE STATIC ELECTRICITY DURING TRANSFER BY GROUNDING AND BONDING CONTAINERS AND EQUIPMENT BEFORE

TRANSFERRING MATERIAL. PREVENT DUST ACCUMULATION.

INCOMPATIBLE MATERIALS:.... ACIDS, COMBUSTIBLE MATERIALS, REDUCING MATERIALS.

HAZARDOUS PRODUCTS OF SEE HAZARDOUS COMBUSTION PRODUCTS.

DECOMPOSITION

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS LD50 LC50

DICHLOROISOCYANURIC ACID SODIUM SALT

847.5 MG/M3 (RAT, INH - 4H)

1420 MG/KG (ORAL, RAT)

INFORMATION ON LIKELY ROUTES OF

ENTRY:

MAY CAUSE RESPIRATORY IRRITATION. INHALATION OF VAPORS OR MIST MAY INHALATION.....

CAUSE RESPIRATORY TRACT RESPIRATORY TRACT IRRITATION. ADVERSE SYMPTOMS MAY INCLUDE THE FOLLOWING: RESPIRATORY TRACT IRRITATION,

COUGHING.

INGESTION..... HARMFUL IF SWALLOWED. MAY CAUSE BURNS TO MOUTH, THROAT AND

STOMACH. ADVERSE SYMPTOMS MAY INCLUDE THE FOLLOWING: STOMACH PAINS, NAUSEA OR VOMITING, HEADACHE, DIARRHEA.

SKIN CONTACT..... MAY CAUSE SKIN BURNS. ADVERSE SYMPTOMS MAY INCLUDE THE FOLLOWING:

PAIN OR IRRITATION, REDNESS, BLISTERING MAY OCCUR.

EYE CONTACT..... MAY CAUSE EYE BURN. ADVERSE SYMPTOMS MAY INCLUDE THE FOLLOWING:

PAIN, WATERING, REDNESS. SEE ABOVE.

EFFECTS OF ACUTE EXPOSURE..... EFFECTS OF CHRONIC EXPOSURE...... SEE ABOVE

SIGNS AND SYMPTOMS OF

OVEREXPOSURE

CARCINOGENICITY OF MATERIAL...... TERATOGENICITY.....

MUTAGENICITY..... REPRODUCTIVE EFFECTS.....

SENSITIZING CAPABILITY OF MATERIAL N.AV. SYNERGISTIC MATERIALS...... N.AV.

DICHLOROISOCYANURIC ACID SODIUM SALT: IARC - GROUP 4. NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS. NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

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

TDG CLASSIFICATION..... PROPER SHIPPING NAME...... DICHLOROISOCYANURIC ACID (DICHLOROISOCYANURIC ACID SODIUM SALT). UN NUMBER..... 2465. PACKING GROUP...... II. ENVIRONMENTAL HAZARDS ACCORDING N.AV.

TO THE INTERNATIONAL MARITIME DANGEROUS GOODS CODE AND THE UNITED NATIONS MODEL REGULATIONS:

SECTION 14: TRANSPORT INFORMATION

WITH TRANSPORT OR CONVEYANCE EITHER WITHIN OR OUTSIDE THE PREMISES:

SECTION 15: REGULATORY INFORMATION

SAFETY, HEALTH AND ENVIRONMENTAL N.AV. REGULÁTIONS 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