



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

PRODUCT: SHOXITE

CODE: MUR0029

Section 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER/SUPPLIER..... MURSATT CHEMICALS LIMITED
11 REGALCREST COURT
WOODBIDGE, ONTARIO
CANADA
L4L 8P3
PREPARED BY..... REGULATORY AFFAIRS
PREPARATION DATE..... May27/11
PRODUCT NAME..... SHOXITE
PRODUCT CODE..... MUR0029
CHEMICAL FORMULA..... MIXTURE.
MOLECULAR WEIGHT..... MIXTURE.
CHEMICAL FAMILY..... N.AV.
MATERIAL USE..... N.AV.
EMERGENCY PHONE NO..... CANUTEC (613)-996-6666.

Section 02: HAZARDS IDENTIFICATION

ROUTE OF ENTRY:
SKIN CONTACT..... SEVERE SKIN IRRITATION EFFECTS OF SKIN CONTACTS MAY INCLUDE:
ERYTHEMA, BURNS, CRACKING OF SKIN.
SKIN ABSORPTION..... N.AV.
EYE CONTACT..... CORROSIVE, MAY CAUSE PERMANENT EYE INJURY IF NOT PROMPTLY TREATED.
INHALATION..... MAY CAUSE IRRITATION OF RESPIRATORY TRACT. NOSE BLEEDING, COUGHING
DISCOMFORT.
INGESTION..... PROLONGED CONTACT MAY CAUSE: INFLAMMATION OF THE STOMACH
(GASTRITIS).
EFFECTS OF ACUTE EXPOSURE..... SEE ABOVE.
EFFECTS OF CHRONIC EXPOSURE..... SEE SECTION 11.

Section 03: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	%	Exposure Limit	C.A.S.#	LD/50, Route,Species	LC/50 Route,Species
PENTAPOTASSIUM BIS(PEROXYMONOSULPHATE) BIS(SULPHATE)	86-96	SEE SECTION 11	70693-62-8	SEE SECTION 11	SEE SECTION 11
DIPOTASSIUM PEROXODISULPHATE	0-5	SEE SECTION 11	7727-21-1	SEE SECTION 11	SEE SECTION 11
TETRA[CARBONATO(2-)]DIHYD ROXY PENTAMAGNESIUM	1-2	SEE SECTION 11	7760-50-1	SEE SECTION 11	SEE SECTION 11

Section 04: FIRST AID MEASURES

EYE CONTACT..... RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
SKIN CONTACT..... IF ON SKIN, RINSE WELL WITH WATER. TAKE OFF CONTAMINATED CLOTHING AND
SHOES IMMEDIATELY. IF SKIN IRRITATION PERSISTS, CALL A PHYSICIAN. WASH
CONTAMINATED CLOTHING BEFORE RE-USE.
INHALATION..... MOVE TO FRESH AIR. OXYGEN OR ARTIFICIAL RESPIRATION IF NEEDED. CALL A
PHYSICIAN IMMEDIATELY.
INGESTION..... DO NOT INDUCE VOMITING. DRINK 1 OR 2 GLASSES OF WATER. NEVER GIVE
ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CALL A PHYSICIAN
IMMEDIATELY.
NOTES TO PHYSICIAN..... N.AV.

Section 05: FIRE FIGHTING MEASURES

T.D.G. FLAM. CLASS..... NON FLAMMABLE.
FLAMMABILITY..... NON FLAMMABLE.
IF YES, UNDER WHICH CONDITIONS?
EXTINGUISHING MEDIA..... USE EXTINGUISHING MEASURES THAT ARE APPROPRIATE TO LOCAL
CIRCUMSTANCES AND THE SURROUNDING ENVIRONMENT. UNSUITABLE
EXTINGUISHING MEDIA: CARBON DIOXIDE (CO2).
SPECIAL FIRE FIGHTING PROCEDURES... WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE SUIT.
FLASH POINT (C), METHOD..... N.AP.
AUTO IGNITION TEMPERATURE..... N.AV.
UPPER FLAMMABLE LIMIT (% BY VOL.).... N.AP.
LOWER FLAMMABLE LIMIT (% BY VOL.).... N.AP.

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Section 05: FIRE FIGHTING MEASURES

EXPLOSION DATA..... N.AV.
 EXPLOSIVE POWER..... N.AV.
 RATE OF BURNING..... WILL NOT BURN.
 SENSITIVITY TO STATIC DISCHARGE..... N.AV.
 SENSITIVITY TO IMPACT..... N.AV.
 HAZARDOUS COMBUSTION PRODUCTS.. SEE HAZARDOUS DECOMPOSITION PRODUCTS.

Section 06: ACCIDENTAL RELEASE MEASURES

LEAK/SPILL..... NOTE: REVIEW FIRE FIGHTING MEASURES AND HANDLING (PERSONNEL) SECTIONS BEFORE PROCEEDING WITH CLEANUP. USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT DURING CLEAN-UP. SAFEGUARDS (PERSONNEL): EVACUATE PERSONNEL TO SAFE AREAS. USE PERSONAL PROTECTIVE EQUIPMENT. SPILL CLEANUP: SWEEP UP AND SHOVEL INTO SUITABLE CONTAINERS FOR DISPOSAL. AVOID DUST FORMATION. AFTER CLEANING, FLUSH AWAY TRACES WITH WATER. ACCIDENTAL RELEASE MEASURES: TRY TO PREVENT THE MATERIAL FROM ENTERING DRAINS OR WATER COURSES.

Section 07: HANDLING AND STORAGE

HANDLING PROCEDURES AND EQUIPMENT USE ONLY IN WELL-VENTILATED AREAS. DO NOT BREATHE DUST. AVOID DUST 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.
 STORAGE NEEDS..... KEEP CONTAINERS TIGHTLY CLOSED IN A DRY, COOL AND WELL-VENTILATED PLACE. PROTECT FROM CONTAMINATION. STORE IN ORIGINAL CONTAINER. KEEP AWAY FROM: COMBUSTIBLE MATERIAL NEVER ALLOW PRODUCT TO GET IN CONTACT WITH WATER DURING STORAGE.

Section 08: EXPOSURE CONTROLS AND PERSONAL PROTECTION

GLOVES/ TYPE..... IMPERVIOUS GLOVES.
 RESPIRATORY/TYPE..... WHEN WORKERS ARE FACING CONCENTRATIONS ABOVE THE EXPOSURE LIMIT THEY MUST USE APPROPRIATE CERTIFIED RESPIRATORS. WEAR A POSITIVE-PRESSURE SUPPLIED-AIR RESPIRATOR.
 EYE/TYPE..... WEAR SAFETY GLASSES OR COVERALL CHEMICAL SPLASH GOGGLES.
 FOOTWEAR/TYPE..... IMPERMEABLE BOOTS.
 CLOTHING/TYPE..... APPROPRIATE IMPERVIOUS APRON, PANTS, JACKET, HOOD .
 OTHER/TYPE..... ENSURE THAT EYEWASH STATIONS AND SAFETY SHOWERS ARE CLOSE TO THE WORKSTATION LOCATION.
 ENGINEERING CONTROLS..... ENSURE ADEQUATE VENTILATION.

Section 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE..... WHITE GRANULAR SOLID.
 ODOUR..... NONE.
 ODOUR THRESHOLD..... N.AV.
 VAPOUR PRESSURE (MMHG)..... N.AP.
 VAPOUR DENSITY (AIR=1)..... N.AP.
 BY VOLUME
 BY WEIGHT
 EVAPORATION RATE..... N.AV.
 BOILING POINT..... N.AP.
 MELTING POINT (C)..... DECOMPOSES BEFORE MELTING.
 PH..... 2.1 AT 30 G/L 20 °C (68 °F).
 SPECIFIC GRAVITY (WATER=1)..... 1.1-1.4.
 SOLUBILITY IN WATER (% W/W)..... 297 - 357 G/L AT 22 °C (72 °F).
 COEFFICIENT OF WATER/OIL DIST..... N.AV.

Section 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY:..... STABLE UNDER RECOMMENDED STORAGE CONDITIONS.
 CONDITIONS TO AVOID..... TEMPERATURE > 50 °C (> 122 °F). AVOID EXTREME HEAT.
 MATERIALS TO AVOID..... HALOGENATED COMPOUNDS CYANIDES, HEAVY METAL SALTS.
 HAZARDOUS PRODUCTS OF DECOMPOSITION OXYGEN, SULFUR DIOXIDE, SULFUR TRIOXIDE.
 HAZARDOUS POLYMERIZATION..... WILL NOT OCCUR.

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Section 11: TOXICOLOGICAL INFORMATION

EXPOSURE LIMIT OF MATERIAL.....	PENTAPOTASSIUM BIS(PEROXYMONOSULPHATE) BIS(SULPHATE), AEL * (DUPONT): 1 MG/M3, 8 & 12 HR., TWA TOTAL DUST. DIPOTASSIUM PEROXODISULPHATE, TLV (ACGIH): 0.1 MG/M3, TWA AS PERSULFATE; POTASSIUM SULFATE, AEL * (DUPONT): 10 MG/M3 8 HR., TWA.
LC 50 OF MATERIAL, SPECIES & ROUTE..	INHALATION 4 HOUR LC50: > 5 MG/L IN RATS.
LD 50 OF MATERIAL, SPECIES & ROUTE..	PENTAPOTASSIUM BIS(PEROXYMONOSULPHATE) BIS(SULPHATE), DERMAL LD50 : > 2,000 MG/KG , RAT; ORAL LD50 : 500 MG/KG , RAT. DIPOTASSIUM PEROXODISULPHATE, DERMAL LD50: > 10,000 MG/KG, RABBIT; ORAL LD50 : 802 MG/KG, RAT.
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.
REPRODUCTIVE EFFECTS.....	N.AV.
IRRITANCY OF MATERIAL.....	SEE SECTION 2.
SENSITIZING CAPABILITY OF MATERIAL.	DID NOT CAUSE SENSITIZATION ON LABORATORY ANIMALS., GUINEA PIG.
SYNERGISTIC MATERIALS.....	N.AV.
MUTAGENICITY.....	PENTAPOTASSIUM BIS(PEROXYMONOSULPHATE) BIS(SULPHATE): DID NOT CAUSE GENETIC DAMAGE IN ANIMALS. TESTS ON MAMMALIAN CELL CULTURES SHOWED MUTAGENIC EFFECTS. DID NOT CAUSE GENETIC DAMAGE IN CULTURED BACTERIAL CELLS. OVERALL WEIGHT OF EVIDENCE INDICATES THAT THE SUBSTANCE IS NOT MUTAGENIC. DIPOTASSIUM PEROXODISULPHATE: TESTS ON BACTERIAL OR MAMMALIAN CELL CULTURES DID NOT SHOW MUTAGENIC EFFECTS.
TERATOGENICITY.....	PENTAPOTASSIUM BIS(PEROXYMONOSULPHATE) BIS(SULPHATE): ANIMAL TESTING SHOWED EFFECTS ON EMBRYO-FETAL DEVELOPMENT AT LEVELS EQUAL TO OR ABOVE THOSE CAUSING MATERNAL TOXICITY.

Section 12: ECOLOGICAL CONSIDERATIONS

ECOLOGICAL INFORMATION.....	PENTAPOTASSIUM BIS(PEROXYMONOSULPHATE) BIS(SULPHATE) - 96 H LC50: CYPRINODON VARIEGATUS (SHEEPSHEAD MINNOW) 1.09 MG/L; 72 H ERC50: ALGAE > 1 MG/L; 48 H EC50: DAPHNIA 3.5 MG/L. DIPOTASSIUM PEROXODISULPHATE - 48 H LC50: DAPHNIA MAGNA (WATER FLEA) 92 MG/L.
BIOACCUMULATION BIODEGRADATION.....	READILY BIODEGRADABLE.

Section 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL.....	DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
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Section 14: TRANSPORT INFORMATION

TDG CLASSIFICATION.....	8.
UN NUMBER.....	3260.
PROPER SHIPPING NAME.....	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (MONOPERSULFATE COMPOUND).
PACKING GROUP.....	II.
SPECIAL SHIPPING INSTRUCTIONS.....	CORROSIVE MATERIAL.

Section 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION.....	C. D2B. E.
CPR COMPLIANCE.....	THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

Section 16: OTHER INFORMATION

N.AP.=NOT APPLICABLE N.AV.=NOT AVAILABLE 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 THEY ARE APPROPRIATE.
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