

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

PRODUCT: SHOCK CODE: MUR0026

### **SECTION 01: IDENTIFICATION**

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

MUR0026 SHOCK N.AV.

INDUSTRIAL APPLICATION, CHLORINE DISINFECTANT, POOL CHEMICALS.

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

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

## **SECTION 02: HAZARD IDENTIFICATION**



HAZARD CLASSIFICATION.....

OXIDIZING SOLIDS - CATEGORY 2. ACUTE TOXICITY (ORAL) - CATEGORY 4. SKIN CORROSION - CATEGORY 1B. SERIOUS EYE DAMAGE - CATEGORY 1. SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - CATEGORY 3 RESPIRATORY SYSTEM. ACUTE AQUATIC TOXICITY - CATEGORY 1. CHRONIC AQUATIC TOXICITY - CATEGORY 1.

SIGNAL WORD.....

HAZARD STATEMENT.....

- CATEGORY 1.
DANGER.
H272 MAY INTENSIFY FIRE; OXIDIZER. H302 HARMFUL IF SWALLOWED. H314
CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. H318 CAUSES SERIOUS EYE
DAMAGE. H335 MAY CAUSE RESPIRATORY IRRITATION. H410 VERY TOXIC TO

AQUATIC LIFE WITH LONG LASTING EFFECTS.

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 POISÓN 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.
P403+P233 STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER TIGHTLY
CLOSED. P405 STORE LOCKED UP. P501 DISPOSE OF CONTENTS/CONTAINER TO
APPROPRIATE WASTE SITE OR RECLAIMER IN ACCORDANCE WITH LOCAL AND

NATIONAL REGULATIONS.

OTHER HAZARDS...... CONTACT WITH ACIDS LIBERATES TOXIC GAS.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS			
CAS#	WT. %		
7778-54-3	60-100		
10137-74-3	0-3		
471-34-1	1-5		
1305-62-0	1-5		
7647-14-5	10-30		
	CAS #  7778-54-3 10137-74-3 471-34-1 1305-62-0	CAS # WT. %  7778-54-3 60-100 10137-74-3 0-3 471-34-1 1-5 1305-62-0 1-5	

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

DECORNI FICH OF FIRED FIELD	
EYE CONTACT	IN CASE OF CONTACT WITH SUBSTANCE, IMMEDIATELY FLUSH EYES WITH
	RUNNING WATER FOR AT LEAST 20 MINUTES. REMOVE CONTACT LENSES, IF
	PRESENT AFTER THE FIRST 5 MINUTES. CONTINUE RINSING. CALL A POISÓN
	CONTROL CENTER OR DOCTOR FOR FURTHER TREATMENT ADVICE.
SKIN CONTACT	FOR MINOR SKIN CONTACT, AVOID SPREADING MATERIAL ON UNAFFECTED SKIN.
	IN CASE OF CONTACT WITH SUBSTANCE, IMMEDIATELY FLUSH SKIN WITH
	RUNNING WATER FOR AT LEAST 20 MINUTES. REMOVE AND ISOLATE
	CONTAMINATED CLOTHING. CALL A POISON CENTER OR DOCTOR FOR
	TREATMENT ADVICE.
INHALATION	MOVE VICTIM TO FRESH AIR. IF PERSON IS NOT BREATHING, CALL 911 OR AN

	AMBULANCE, THEN GIVE ARTIFICIAL RESPIRATION. DO NOT USE
	MOUTH-TO-MOUTH METHOD IF VICTIM INHALED THE SUBSTANCE; GIVE
	ARTIFICIAL RESPIRATION WITH THE AID OF A POCKET MASK EQUIPPED WITH A
INGESTION	ONE-WAY VALVE OR OTHER PROPER RESPIRATORY MEDICAL DEVICE. CALL A
	POISON CONTROL CENTER OR DOCTOR FOR FURTHER TREATMENT ADVICE.
	IF SWALLOWED, SEEK MEDICAL ATTENTION IMMEDIATELY FROM POISON
	CONTROL CENTER OR DOCTOR. HAVE A PERSON SIP A GLASS OF WATER, IF
	ABLE TO SWALLOW. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS
	DEDOON DO NOT INDUCE VOMITING UNITED TO DO DO DV THE DOLOON

PERSON. DO NOT INDUCE VOMITING UNLESS TOLD TO DO SO BY THE POISON CONTROL CENTER OR DOCTOR.

MOST IMPORTANT SYMPTOMS AND ...... EFFECTS, ACUTE OR DELAYED:

DESCRIPTION OF FIRST AID MEASURES.

IF INGESTION, IRRITATION, ANY TYPE OF OVEREXPOSURE OR SYMPTOMS OF OVEREXPOSURE OCCUR DURING, OR PERSISTS AFTER USE OF THIS PRODUCT, CONTACT A POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN IMMEDIATELY: HAVE SAFETY DATA SHEET INFORMATION AVAILABLE. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON. REFER TO SECTION 11 - TOXICOLOGICAL INFORMATION.

INDICATION OF ANY IMMEDIATE MEDICAL NOTES TO PHYSICIAN: PROBABLE MUCOSAL DAMAGE MAY CONTRAINDICATE ATTENTION AND SPECIAL TREATMENT NEEDED

THE USE OF GASTRIC LAVAGE. ALL TREATMENTS SHOULD BE BASED ON OBSERVED SIGNS AND SYMPTOMS OF DISTRESS IN THE PATIENT. CONSIDERATION SHOULD BE GIVEN TO THE POSSIBILITY THAT OVEREXPOSURE TO MATERIALS OTHER THAN THIS PRODUCT MAY HAVE OCCURRED.

### SECTION 05: FIRE FIGHTING MEASURES

DRENCH WITH LARGE QUANTITIES OF WATER ONLY. SUITABLE EXTINGUISHING MEDIA...... DO NOT USE DRY CHEMICALS OR FOAMS. PRODUCT SUPPLIES OWN OXYGEN, UNSUITABLE EXTINGUISHING MEDIA..... THEREFORE ATTEMPTS TO SMOTHER FIRE WITH A WET BLANKET, CARBON DIOXIDE, DRY CHEMICAL EXTINGUISHER OR OTHER MEANS ARE NOT EFFECTIVE. PRODUCT HAS THE POTENTIAL TO CAUSE A VIOLENT REACTION IF DRY

CHEMICAL FIRE EXTINGUISHERS ARE USED.

SPECIAL HAZARDS ARISING FROM THE PRODUCT:

CONTAINERS MAY EXPLODE WHEN HEATED. MAY EXPLODE FROM HEAT OR CONTAMINATION. MAY IGNITE COMBUSTIBLES (WOOD, PAPER, OIL, CLOTHING, ETC.) RUNOFF MAY CREATE FIRE OR EXPLOSION HAZARD. SOME WILL REACT EXPLOSIVELY WITH HYDROCARBONS (FUELS). THESE SUBSTANCES WILL ACCELERATE BURNING WHEN INVOLVED IN A FIRE. EMITS TOXIC FUMES UNDER FIRE CONDITIONS. CHLORINE GAS MAY BE GENERATED

HAZARDOUS COMBUSTION PRODUCTS.

DEPENDING ON CONDITIONS, DECOMPOSITION PRODUCTS MAY INCLUDE THE FOLLOWING MATERIALS: CARBON OXIDES; HALOGENATED COMPOUNDS; METAL OXIDE/OXIDES

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS:

STRUCTURAL FIREFIGHTERS' PROTECTIVE CLOTHING PROVIDES LIMITED PROTECTION IN FIRE SITUATIONS ONLY; IT IS NOT EFFECTIVE IN SPILL SITUATIONS WHERE DIRECT CONTACT WITH THE SUBSTANCE IS POSSIBLE WEAR CHEMICAL PROTECTIVE CLOTHING THAT IS SPECIFICALLY RECOMMENDED BY THE MANUFACTURER. IT MAY PROVIDE LITTLE OR NO THERMAL PROTECTION. WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA).

# **SECTION 05: FIRE FIGHTING MEASURES**

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS:

SMALL FIRES: MOVE CONTAINERS FROM FIRE AREA IF YOU CAN DO IT WITHOUT RISK. PROMPTLY ISOLATE THE SCENE BY REMOVING ALL PERSONS FROM THE VICINITY OF THE INCIDENT IF THERE IS A FIRE. NO ACTION SHALL BE TAKEN INVOLVING ANY PERSONAL RISK OR WITHOUT SUITABLE TRAINING. THIS MATERIAL IS VERY TOXIC TO AQUATIC ORGANISMS. FIRE WATER CONTAMINATED WITH THIS MATERIAL MUST BE CONTAINED AND PREVENTED FROM BEING DISCHARGED TO ANY WATERWAY, SEWER OR DRAIN.

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

PERSONAL PRECAUTIONS.....

USE EXTREME CAUTION IN HANDLING SPILLED MATERIAL. VENTILATE THE AREA BEFORE ENTRY. USE SPARK-PROOF TOOLS AND EXPLOSION-PROOF EQUIPMENT. DO NOT WALK THROUGH SPILLED MATERIAL. DO NOT MIX THIS PRODUCT WITH ANY OTHER CHEMICALS, INCLUDING ANY OTHER POOL CHEMICALS OF ANY KIND, SUCH AS OTHER DISINFECTION OR "SHOCK" POOL PRODUCTS. CONTAMINATION WITH MOISTURE, ACIDS, ORGANIC MATTER, OTHER CHEMICALS (INCLUDING, BUT NOT LIMITED TO CLEANING CHEMICALS AND OTHER POOL CHEMICALS), PETROLEUM OR PAINT PRODUCTS OR OTHER EASILY COMBUSTIBLE MATERIALS MAY START A CHEMICAL REACTION WITH GENERATION OF HEAT, LIBERATION OF HAZARDOUS GASES AND POSSIBLE VIOLENT REACTION LEADING TO FIRE OR EXPLOSION. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT, AVOID DIRECT CONTACT. DO NOT TOUCH DAMAGED CONTAINERS OR SPILLED MATERIAL UNLESS WEARING APPROPRIATE PROTECTIVE CLOTHING.

ENVIRONMENTAL PRECAUTIONS.....

PREVENT ENTRY INTO WATERWAYS, SEWERS, BASEMENTS OR CONFINED AREAS.

METHODS AND MATERIALS FOR ..... AVOID GENERATING DUST. IF FIRE OR DECOMPOSITION OCCURS IN AREA OF SPILL, IMMEDIATELY DOUSE WITH PLENTY OF WATER. OTHERWISE, SWEEP UP CONTAINMENT AND CLEANING UP ALL VÍSIBLE MATERIAL USING A CLEAN (NEW, IF POSSIBLE), DRY SHOVEL AND

BROOM AND IMMEDIATELY DISSOLVE MATERIAL IN A WATER-FILLED CONTAINER. SPILLED MATERIAL THAT HAS BEEN SWEPT UP AND DISSOLVED IN WATER SHOULD BE USED IMMEDIATELY IN THE NORMAL APPLICATION FOR WHICH THIS

PRODUCT IS BEING CONSUMED.

### SECTION 07: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:.....

USE EXTREME CAUTION IN HANDLING SPILLED MATERIAL. USE ONLY WITH ADEQUATE VENTILATION. KEEP AWAY FROM COMBUSTIBLE MATERIAL. STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. USE SPARK-PROOF TOOLS AND EXPLOSION-PROOF EQUIPMENT. DO NOT MIX THIS PRODUCT WITH ANY OTHER CHEMICALS, INCLUDING ANY OTHER POOL CHEMICALS OF ANY KIND, SUCH AS OTHER DISINFECTION OR "SHOCK" POOL PRODUCTS. CONTAMINATION WITH MOISTURE, ACIDS, ORGANIC MATTER, OTHER CHEMICALS (INCLUDING, BUT NOT LIMITED TO CLEANING CHEMICALS AND OTHER POOL CHEMICALS), PETROLEUM OR PAINT PRODUCTS OR OTHER EASILY COMBUSTIBLE MATERIALS MAY START A CHEMICAL REACTION WITH GENERATION OF HEAT, LIBERATION OF HAZARDOUS GASES AND POSSIBLE VIOLENT REACTION LEADING TO FIRE OR EXPLOSION. ALWAYS ADD PRODUCT TO LARGE QUANTITIES OF WATER TO FULLY DISSOLVE PRODUCT. DO NOT POUR WATER INTO PRODUCT, ALWAYS ADD PRODUCT TO WATER. USE ONLY A CLEAN (NEW, IF POSSIBLE), DRY SCOOP MADE OF METAL OR PLASTIC EACH TIME PRODUCT IS TAKEN FROM THE CONTAINER. DO NOT USE WITH STABILIZED CHLORINE OR BROMINE TABLET CHEMICAL FEEDERS. DO NOT ADD THIS PRODUCT TO ANY DISPENSING DEVICE CONTAINING REMNANTS OF ANY OTHER PRODUCT OR POOL CHEMICAL. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT, AVOID DIRECT CONTACT. DO NOT BREATHE DUST. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. DO NOT INGEST. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING, DRINKING, OR USING TOBACCO. EMPTY CONTAINERS RETAIN PRODUCT RESIDUE AND CAN BE HAZARDOUS. DO NOT REUSE CONTAINER. RESIDUAL MATERIAL REMAINING IN EMPTY CONTAINER CAN REACT TO CAUSE FIRE. THOROUGHLY FLUSH EMPTY CONTAINER WITH WATER THEN DESTROY BY PLACING IN TRASH COLLECTION. VENTILATE ENCLOSED AREAS. KEEP ONLY IN THE ORIGINAL CONTAINER. KEEP CONTAINER CLOSED. SEPARATE FROM ACIDS, ALKALIS, REDUCING AGENTS AND COMBUSTIBLES. PRODUCT IS AN NFPA CLASS 3 OXIDIZER WHICH CAN CAUSE A SEVERE INCREASE IN FIRE INTENSITY. STORE IN A COOL, DRY,

CONDITIONS FOR SAFE STORAGE, ... INCLUDING ANY IMCOMPATIBILITES:

WELL-VENTILATED PLACE. IF PRODUCT BECOMES CONTAMINATED OR DECOMPOSES DO NOT RESEAL CONTAINER. IF POSSIBLE ISOLATE CONTAINER IN OPEN AIR OR WELL-VENTILATED AREA.

# **SECTION 08: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

	1		1		1
INGREDIENTS	TWA	SIH TLV STEL	PEL OSHA	PEL STEL	NIOSH REL
CALCIUM HYPOCHLORITE	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.
CALCIUM CHLORATE	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.
CALCIUM CARBONATE	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.
CALCIUM HYDROXIDE	5 MG/M3	N.AV.	N.AV.	N.AV.	5 MG/M3
SODIUM CHLORIDE	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.
APPROPRIATE ENGINI INDIVIDUAL PROTECT SUCH AS PERSONAL I	ION MEASURE	S GOOD GENERAL VEN BE MATCHED TO CON LOCAL EXHAUST VEN MAINTAIN AIRBORNE	NDITIONS. IF APPLICATION, OR OTHE	ABLÉ, USE PROCESS R ENGINEERING COI	ENCLOSURES, NTROLS TO
EQUIPMENTS:					
HAND PROTECTION.		STANDARD SHOULD PRODUCTS IF A RISK CONSIDERING THE P CHECK DURING USE PROTECTIVE PROPEI BREAKTHROUGH FOID DIFFERENT GLOVE MOF SEVERAL SUBSTANCCURATELY ESTIMA	BÉ WORN AT ALL TIME ASSESSMENT INDICE ARAMETERS SPECIF THAT THE GLOVES ARTIES. IT SHOULD BI R ANY GLOVE MATEI IANUFACTURERS. IN ANCES, THE PROTECE ATED. GLOVES: NITR	MES WHEN HANDLING CATES THIS IS NECES FIED BY THE GLOVE IN ARE STILL RETAINING E NOTED THAT THE T RIAL MAY BE DIFFER THE CASE OF MIXTU TION TIME OF THE G ILE, NEOPRENE, AND	G CHEMICAL SSARY. MANUFACTURER, G THEIR TIME TO ENT FOR JRES, CONSISTING JLOVES CANNOT BE D BUTYL RUBBER.
		THEY MUST USE APP FITTED, AIR-PURIFYIN APPROVED STANDAR RESPIRATOR SELEC EXPOSURE LEVELS, LIMITS OF THE SELEC	ROPRIATE, CERTIFII NG OR AIR-FED RESI RD IF A RISK ASSESS TION MUST BE BASE THE HAZARDS OF TH CTED RESPIRATOR.	ED RESPIRATORS. US PIRATOR COMPLYING IMENT INDICATES TH D ON KNOWN OR AN HE PRODUCT AND TH	SE A PROPERLY S WITH AN IIS IS NECESSARY. TICIPATED
EYE PROTECTION PROTECTIVE FOOTV PROTECTIVE CLOTH	VEARIING	WEAR APPROPRIATE WEAR SUITABLE PRO FOR THE BODY SHOU AND THE RISKS INVO HANDLING THIS PRO	PROTECTIVE FOOT TECTIVE CLOTHING JLD BE SELECTED B ILVED AND SHOULD DUCT.	WEAR TO PREVENT I . PERSONAL PROTEC ASED ON THE TASK I BE APPROVED BY A	CTIVE EQUIPMENT BEING PERFORMED
OTHERHYGIENIC PRACTICES		EYEWASH STATION A WASH HANDS, FORE, PRODUCTS, BEFORE END OF THE WORKIN TO REMOVE POTENT CLOTHING BEFORE F SHOWERS ARE CLOS	ARMS AND FACE THO EATING, SMOKING A IG PERIOD. APPROP IALLY CONTAMINATI REUSING. ENSURE TI	OROUGHLY AFTER H AND USING THE LAVA RIATE TECHNIQUES ED CLOTHING. WASH HAT EYEWASH STAT	ATORY AND AT THE SHOULD BE USED CONTAMINATED
OTHER		ENVIRONMENTAL EX RELEASE TO THE EN ATMOSPHERIC RELE. PRACTICE FOR SITE	(POSURE CONTROLS VIRONMENT, INCLUI ASE AND RELEASE 1	S SHOULD BE ENGINI DING PROCEDURES T O WATERWAYS. FOL	O PREVENT SPILLS, LOW BEST

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

PHYSICAL STATE COLORODOUR	SOLID. VARIOUS COLORS. SLIGHT CHLORINE.
ODOUR THRESHOLD PH	
MELTING/FREEZING POINT BOILING POINT/BOILING RANGEFLASH POINT (C), METHOD	170 TO 180 C (338 TO 356 F) DECOMPOSES. N.AP.
FLAMMABILITY (SOLIDS AND GASES)	N.AP. N.AV. N.AP.
UPPER FLAMMABLE LIMIT (% BY VOL.) LOWER FLAMMABLE LIMIT (% BY VOL.) VAPOUR PRESSURE (MMHG)	N.AP. N.AV.
VAPOUR DENSITY (AIR=1) RELATIVE DENSITY	N.AV. BULK DENSITY: 63-67 LBS/FT3 (1 - 1.07 G/CM3).

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

SOLUBILITY IN WATER (% W/W)...... SOLUBLE 100 %.

PARTITION COEFFICIENT ..... N.AV. (N-OCTANOL/WATER) AUTO IGNITION TEMPERATURE...... N.AV.

VISCOSITY..... NO DATA.

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

REACTIVITY:.... NO DANGEROUS REACTION KNOWN UNDER CONDITIONS OF NORMAL USE. THE PRODUCT MAY NOT BE STABLE UNDER CERTAIN CONDITIONS OF STORAGE CHEMICAL STABILITY:.... OR USE. PRODUCT DECOMPOSES AT APPROXIMATELY 170-180°C (338-356°F) RELEASING OXYGEN GAS AND SOME CHLORINE GAS. POSSIBILITY OF HAZARDOUS ..... HAZARDOUS REACTIONS OR INSTABILITY MAY OCCUR UNDER CERTAIN CONDITIONS OF STORAGE OR USE. CONDITIONS MAY INCLUDE THE FOLLOWING: **REACTIONS:** 

CONTACT WITH COMBUSTIBLE MATERIALS, CONTACT WITH ACIDS/AMMONIA. REACTIONS MAY INCLUDE THE FOLLOWING: RISK OF CAUSING OR INTENSIFYING

FIRE, LIBERATION OF TOXIC GAS.
HEATING MAY CAUSE A FIRE OR EXPLOSION. EXCESSIVE HEAT WILL CAUSE CONDITIONS TO AVOID..... DECOMPOSITION RESULTING IN THE RELEASE OF OXYGEN AND CHLORINE GAS

HIGHLY REACTIVE OR INCOMPATIBLE WITH THE FOLLOWING MATERIALS: INCOMPATIBLE MATERIALS:.... MOISTURE, COMBUSTIBLE MATERIALS, ORGANIC MATERIALS, METALS, ACIDS, ALKALIS, OXIDIZING MATERIALS, REDUCING MATERIALS, AMMONIA, PETROLEUM PRODUCTS, PAINT PRODUCTS, WOOD AND PAPER, AND POOL CHEMICALS. ACID OR AMMONIA CONTAMINATION WILL RELEASE TOXIC GASES.

HAZARDOUS PRODUCTS OF ...... PRODUCT SLOWLY RELEASES CHLORINE GAS.

**DECOMPOSITION** 

### **SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
CALCIUM HYPOCHLORITE	N.AV.	850 MG/KG (ORAL, RAT); >1000 MG/KG (DERMAL, RABBIT)
CALCIUM CHLORATE	N.AV.	N.AV.
CALCIUM CARBONATE	N.AV.	N.AV.
CALCIUM HYDROXIDE	N.AV.	7340 MG/KG (ORAL, RAT)
SODIUM CHLORIDE	N.AV.	3000 MG/KG (ORAL, RAT)
INFORMATION ON LIKELY ROUTES OF		

INHALATION...... MAY CAUSE CORROSIVE BURNS - IRREVERSIBLE DAMAGE. MAY CAUSE

RESPIRATORY IRRITATION.

INGESTION..... HARMFUL OR FATAL IF SWALLOWED. MAY CAUSE IRREVERSIBLE DAMAGE TO

**MUCOUS MEMBRANES** 

SKIN CONTACT..... CAUSES SEVERE SKIN BURNS.

SKIN ABSORPTION..... N.AV

EYE CONTACT..... CAUSES SERIOUS EYE DAMAGE. DIRECT CONTACT WITH THE EYES CAN CAUSE IRREVERSIBLE DAMAGE, INCLUDING BLINDNESS.

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

EFFECTS OF CHRONIC EXPOSURE...... REPEATED OR PROLONGED EXPOSURE THROUGH INHALATION TO CORROSIVE

FUMES MAY CAUSE BRONCHIAL IRRITATION WITH CHRONIC COUGH. REPEATED OR PROLONGED EXPOSURE OF THE SKIN TO CORROSIVE MATERIALS WILL CAUSE DERMATITIS. REPEATED OR PROLONGED EXPOSURE OF THE EYES TO CORROSIVE MATERIALS OR FUMES MAY CAUSE CONJUNCTIVITIS. . REPEATED OR PROLONGED EXPOSURE TO CORROSIVE MATERIALS OR FUMES MAY CAUSE

GASTROINTESTINAL DISTURBANCES

ADVERSE SYMPTOMS MAY INCLUDE THE FOLLOWING - INHALATION: RESPIRATORY TRACT IRRITATION, COUGHING, BREATHING DIFFICULTY OR SIGNS AND SYMPTOMS OF .....

OVEREXPOSURE

SHORTNESS OF BREATH, PULMONARY EDEMA. INGESTION: STOMACH PAINS, NAUSEA OR VOMITING, GASTRIC PERFORATION. SKIN: PAIN OR IRRITATION, REDNESS, BLISTERING MAY OCCUR. EYES: PAIN, WATERING, REDNESS, CORNEA

OPACITY, DIRECT CONTACT WITH THE EYES CAN CAUSE IRREVERSIBLE DAMAGE, INCLUDING BLINDNESS.

CARCINOGENICITY OF MATERIAL....... CALCIUM HYPOCHLORITE - IARC: 3.

TERATOGENICITY...... N.AV. MUTAGENICITY .. N.AV. REPRODUCTIVE EFFECTS..... N.AV.

SENSITIZING CAPABILITY OF MATERIAL N.AV.

# **SECTION 11: TOXICOLOGICAL INFORMATION**

SYNERGISTIC MATERIALS...... N.AV.

# **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**

INFORMATION ON SAFE HANDLING FOR DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, PROVINCIAL, AND DISPOSAL AND METHODS OF DISPOSAL. LOCAL ENVIRONMENTAL REGULATIONS. INCLUDING ANY CONTAMINATED PACKAGING

### **SECTION 14: TRANSPORT INFORMATION**

..... 2880

PROPER SHIPPING NAME...... CALCIUM HYPOCHLORITE, HYDRATED.

TDG CLASSIFICATION.....

PACKING GROUP......II.
ENVIRONMENTAL HAZARDS ACCORDING MARINE POLLUTANT.

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

TRANSPORT IN BULK..... N.AP.

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

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