



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

PRODUCT: MOR-CAL

CODE: MUR0035

### SECTION 01: IDENTIFICATION

PRODUCT CODE..... MUR0035  
 PRODUCT IDENTIFIER..... MOR-CAL  
 OTHER MEANS OF IDENTIFICATION..... N.AV.  
 RECOMMENDED USE AND ..... SPA WATER TREATMENT.  
 RESTRICTIONS ON USE  
 SUPPLIER IDENTIFIER..... 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 IRRITATION — CATEGORY 2. EYE IRRITATION - CATEGORY 2B .  
 SIGNAL WORD..... WARNING.  
 HAZARD STATEMENT..... H302 HARMFUL IF SWALLOWED. H315 CAUSES SKIN IRRITATION. H320 CAUSES EYE IRRITATION.  
 PRECAUTIONARY STATEMENT..... P264 WASH SKIN THOROUGHLY AFTER HANDLING. P270 DO NOT 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. P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION. P302+P352 IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER. P321 SPECIFIC TREATMENT (SEE SUPPLEMENTAL FIRST AID INSTRUCTIONS ON THE SAFETY DATA SHEET). P332+P313 IF SKIN IRRITATION OCCURS: GET MEDICAL ADVICE/ATTENTION. P362+P364 TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE REUSE. P305+P351+P338 IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. P337+P313 IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/ATTENTION. P501 DISPOSE OF CONTENTS/CONTAINER TO APPROPRIATE WASTE SITE OR RECLAIMER IN ACCORDANCE WITH LOCAL AND NATIONAL REGULATIONS.  
 OTHER HAZARDS..... NONE.

### SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
CALCIUM CHLORIDE	10043-52-4	83-87
POTASSIUM CHLORIDE	7447-40-7	2-3
SODIUM CHLORIDE	7647-14-5	1-2

### SECTION 04: FIRST AID MEASURES

#### DESCRIPTION OF FIRST AID MEASURES:

EYE CONTACT..... IF IN EYES, RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. IF IRRITATION OCCURS, GET MEDICAL ADVICE/ATTENTION.  
 SKIN CONTACT..... IF ON SKIN, WASH WITH PLENTY OF WATER. IF SKIN IRRITATION OCCURS: GET MEDICAL ADVICE/ ATTENTION. TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE REUSE. SPECIFIC TREATMENT: WASH WITH LOTS OF WATER.  
 INHALATION..... IF INHALATION OF DUST OCCURS AND ADVERSE EFFECTS RESULT, REMOVE TO UNCONTAMINATED AREA. CALL A POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL.

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**SECTION 04: FIRST AID MEASURES**

INGESTION.....	IF SWALLOWED, RINSE MOUTH. CONTACT A POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL.
MOST IMPORTANT SYMPTOMS AND ..... EFFECTS, ACUTE OR DELAYED:	INHALATION (BREATHING): INHALING DUST MAY CAUSE IRRITATION TO UPPER RESPIRATORY TRACT (NOSE AND THROAT). NASAL MUCOSAL AND OROPHARYNGEAL EYTHEMA. SKIN: SKIN IRRITATION. DIRECT ABRASION OF SKIN FROM SOLID, ERYTHEMA AND BURN FROM REACTION WITH WATER. PROLONGED CONTACT AND OCCLUSION MAY CAUSE MORE SEVERE SYMPTOMS. DAMAGE IS LOCALIZED TO CONTACT AREAS. EYE: EYE IRRITATION. DIRECT ABRASION OF CORNEA FROM SOLID, ERYTHEMA AND BURN FROM REACTION WITH WATER, CONJUNCTIVAL SWELLING AND CORNEA OPACIFICATION FROM HYPERTONIC SOLUTION AND HEAT. CORNEAL EYE PAIN, REDNESS, ACUTE CORNEAL THICKENING OR WHITENING. INGESTION (SWALLOWING): CONSUMPTION OF SOLIDS OR HYPERTONIC SOLUTIONS CAUSES NAUSEA, VOMITING, AND INCREASED THIRST. DELAYED SYMPTOMS/EFFECTS - CHRONIC EXPOSURES TO SKIN AND MUCUS MEMBRANES THAT CAUSE IRRITATION MAY CAUSE A CHRONIC DERMATITIS OR MUCOSAL MEMBRANE PROBLEM.
INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED	ANY SKIN CONDITION THAT DISRUPTS THE SKIN, SUCH AS ABRASIONS, CUTS, PSORIASIS, FUNGAL INFECTIONS, ETC. ANY UPPER RESPIRATORY CONDITIONS THAT COMPROMISE MUCOSA CAN INCREASE LOCAL DAMAGE FROM DUST CONTACT. ANY EYE CONDITION THAT COMPROMISES TEAR PRODUCTION, CONJUNCTIVA, OR NORMAL CORNEAL HOMEOSTASIS. PROTECTION OF FIRST-AIDERS: AT MINIMUM, TREATING PERSONNEL SHOULD UTILIZE PPE SUFFICIENT FOR PREVENTION OF BLOODBORNE PATHOGEN TRANSMISSION. IF POTENTIAL FOR EXPOSURE EXISTS REFER TO SECTION 8 FOR SPECIFIC PERSONAL PROTECTIVE EQUIPMENT. NOTES TO PHYSICIAN: DUE TO IRRITANT PROPERTIES, RESULTING FROM HEAT CREATED AS SOLID MATERIAL DISSOLVES IN WATER, SWALLOWING MAY RESULT IN BURNS/ULCERATION OF MUCUS MEMBRANES. IF BURN IS PRESENT, TREAT AS ANY THERMAL BURN, AFTER DECONTAMINATION. NO SPECIFIC ANTIDOTE. TREATMENT OF EXPOSURE SHOULD BE DIRECTED AT THE CONTROL OF SYMPTOMS AND THE CLINICAL CONDITION OF THE PATIENT.

**SECTION 05: FIRE FIGHTING MEASURES**

SUITABLE EXTINGUISHING MEDIA.....	USE EXTINGUISHING AGENTS APPROPRIATE FOR SURROUNDING FIRE.
UNSUITABLE EXTINGUISHING MEDIA.....	N.AV.
SPECIAL HAZARDS ARISING FROM THE PRODUCT:	THIS MATERIAL DOES NOT BURN.
HAZARDOUS COMBUSTION PRODUCTS. SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS:	HYDROGEN CHLORIDE GAS, CALCIUM OXIDE. KEEP UNNECESSARY PEOPLE AWAY, ISOLATE HAZARD AREA AND DENY ENTRY. THIS MATERIAL DOES NOT BURN. FIGHT FIRE FOR OTHER MATERIAL THAT IS BURNING. WATER SHOULD BE APPLIED IN LARGE QUANTITIES AS FINE SPRAY. WEAR NIOSH APPROVED POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS OPERATED IN PRESSURE DEMAND MODE. WEAR PROTECTIVE FIRE FIGHTING CLOTHING (INCLUDES FIRE FIGHTING HELMET, COAT, TROUSERS, BOOTS, AND GLOVES). AVOID CONTACT WITH THIS MATERIAL DURING FIRE FIGHTING OPERATIONS. IF CONTACT IS LIKELY, CHANGE TO FULL CHEMICAL RESISTANT FIRE FIGHTING CLOTHING WITH SELF-CONTAINED BREATHING APPARATUS. IF THIS IS NOT AVAILABLE, WEAR FULL CHEMICAL RESISTANT CLOTHING WITH SELF-CONTAINED BREATHING APPARATUS AND FIGHT FIRE FROM A REMOTE LOCATION. FOR PROTECTIVE EQUIPMENT IN POST-FIRE OR NON-FIRE CLEAN-UP SITUATIONS, REFER TO THE RELEVANT SECTIONS.

**SECTION 06: ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS.....	ISOLATE AREA. KEEP UNNECESSARY AND UNPROTECTED PERSONNEL FROM ENTERING THE AREA. USE APPROPRIATE SAFETY EQUIPMENT. FOR ADDITIONAL INFORMATION, REFER TO SECTION 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION. REFER TO SECTION 7, HANDLING, FOR ADDITIONAL PRECAUTIONARY MEASURES.
ENVIRONMENTAL PRECAUTIONS.....	PREVENT FROM ENTERING INTO SOIL, DITCHES, SEWERS, WATERWAYS AND/OR GROUNDWATER.
METHODS AND MATERIALS FOR ..... CONTAINMENT AND CLEANING UP	SMALL AND LARGE SPILLS: CONTAIN SPILLED MATERIAL IF POSSIBLE. COLLECT IN SUITABLE AND PROPERLY LABELED CONTAINERS. FLUSH RESIDUE WITH PLENTY OF WATER.

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**SECTION 07: HANDLING AND STORAGE**

PRECAUTIONS FOR SAFE HANDLING:..... HEAT DEVELOPED DURING DILUTING OR DISSOLVING IS VERY HIGH. USE COOL WATER WHEN DILUTING OR DISSOLVING (TEMPERATURE LESS THAN 80°F, 27°C). AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. DO NOT SWALLOW. WASH THOROUGHLY AFTER HANDLING. KEEP CONTAINER TIGHTLY CLOSED. SEE SECTION 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

CONDITIONS FOR SAFE STORAGE, ..... STORE IN A DRY PLACE. PROTECT FROM ATMOSPHERIC MOISTURE. KEEP INCLUDING ANY INCOMPATIBILITIES: CONTAINER TIGHTLY CLOSED. KEEP SEPARATED FROM INCOMPATIBLE SUBSTANCES.

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

INGREDIENTS	ACGIH TLV		OSHA PEL		NIOSH
	TWA	STEL	PEL	STEL	
CALCIUM CHLORIDE	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.
POTASSIUM CHLORIDE	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.
SODIUM CHLORIDE	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.
APPROPRIATE ENGINEERING CONTROLS	USE LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO MAINTAIN AIRBORNE LEVELS BELOW EXPOSURE LIMIT REQUIREMENTS OR GUIDELINES. IF THERE ARE NO APPLICABLE EXPOSURE LIMIT REQUIREMENTS OR GUIDELINES, GENERAL VENTILATION SHOULD BE SUFFICIENT FOR MOST OPERATIONS. LOCAL EXHAUST VENTILATION MAY BE NECESSARY FOR SOME OPERATIONS.				
EXPOSURE LIMIT OF MATERIAL.....	ACGIH (TWA) - 10 MG/M3 (INHALABLE) 3 MG/M3 (RESPIRABLE) AS PARTICULATES NOT OTHERWISE SPECIFIED (PNOS).				
INDIVIDUAL PROTECTION MEASURE SUCH AS PERSONAL PROTECTIVE EQUIPMENTS:					
HAND PROTECTION.....	USE GLOVES CHEMICALLY RESISTANT TO THIS MATERIAL. IF HANDS ARE CUT OR SCRATCHED, USE GLOVES CHEMICALLY RESISTANT TO THIS MATERIAL EVEN FOR BRIEF EXPOSURES. EXAMPLES OF PREFERRED GLOVE BARRIER MATERIALS INCLUDE: NEOPRENE, POLYVINYL CHLORIDE ("PVC" OR "VINYL"), NITRILE/BUTADIENE RUBBER ("NITRILE" OR "NBR"). NOTICE: THE SELECTION OF A SPECIFIC GLOVE FOR A PARTICULAR APPLICATION AND DURATION OF USE IN A WORKPLACE SHOULD ALSO TAKE INTO ACCOUNT ALL RELEVANT WORKPLACE FACTORS SUCH AS, BUT NOT LIMITED TO: OTHER CHEMICALS WHICH MAY BE HANDLED, PHYSICAL REQUIREMENTS (CUT/PUNCTURE PROTECTION, DEXTERITY, THERMAL PROTECTION), POTENTIAL BODY REACTIONS TO GLOVE MATERIALS, AS WELL AS THE INSTRUCTIONS/SPECIFICATIONS PROVIDED BY THE GLOVE SUPPLIER.				
RESPIRATORY PROTECTION.....	RESPIRATORY PROTECTION SHOULD BE WORN WHEN THERE IS A POTENTIAL TO EXCEED THE EXPOSURE LIMIT REQUIREMENTS OR GUIDELINES. IF THERE ARE NO APPLICABLE EXPOSURE LIMIT REQUIREMENTS OR GUIDELINES, WEAR RESPIRATORY PROTECTION WHEN ADVERSE EFFECTS, SUCH AS RESPIRATORY IRRITATION OR DISCOMFORT HAVE BEEN EXPERIENCED, OR WHERE INDICATED BY YOUR RISK ASSESSMENT PROCESS. IN DUSTY OR MISTY ATMOSPHERES, USE AN APPROVED PARTICULATE RESPIRATOR. THE FOLLOWING SHOULD BE EFFECTIVE TYPES OF AIR-PURIFYING RESPIRATORS: HIGH EFFICIENCY PARTICULATE AIR (HEPA) N95. A RESPIRATORY PROTECTION PROGRAM THAT MEETS 29 CFR 1910.134 MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT USE OF A RESPIRATOR.				
EYE PROTECTION.....	WEAR SAFETY GLASSES WITH SIDE-SHIELDS. FOR DUSTY OPERATIONS OR WHEN HANDLING SOLUTIONS OF THE MATERIAL, WEAR CHEMICAL GOGGLES.				
PROTECTIVE CLOTHING.....	WEAR CLEAN, BODY-COVERING CLOTHING.				
PROTECTIVE FOOTWEAR.....	PROTECTIVE FOOTWEAR.				
OTHER.....	EYEWASH STATION AND SAFETY SHOWER IN WORK AREA.				
HYGIENIC PRACTICES.....	USE GOOD PERSONAL HYGIENE. DO NOT CONSUME OR STORE FOOD IN THE WORK AREA. WASH HANDS BEFORE SMOKING OR EATING.				

**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE..... SOLID FLAKES.  
 COLOR..... WHITE.  
 ODOUR..... ODOURLESS.  
 ODOUR THRESHOLD..... N.AV.  
 PH..... N.AP.  
 MELTING POINT (C)..... 772 C (1422 F).  
 BOILING POINT..... N.AP.  
 FLASH POINT (C), METHOD..... N.AP.

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**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

EVAPORATION RATE..... N.AP.  
 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..... BULK DENSITY: 51 - 61 LB/FT3.  
 SOLUBILITY IN WATER (% W/W)..... READILY SOLUBLE.  
 COEFFICIENT OF WATER/OIL DIST..... N.AV.  
 AUTO IGNITION TEMPERATURE..... N.AP.  
 DECOMPOSITION TEMPERATURE..... N.AV.  
 VISCOSITY..... N.AP.

**SECTION 10: STABILITY AND REACTIVITY**

REACTIVITY:..... HYGROSCOPIC. LIBERATES LARGE AMOUNTS OF HEAT WHEN DISSOLVING IN WATER OR AQUEOUS ACIDS.  
 CHEMICAL STABILITY:..... STABLE UNDER NORMAL CONDITIONS OF USE, STORAGE AND TEMPERATURE.  
 POSSIBILITY OF HAZARDOUS REACTIONS:..... AVOID MOISTURE. HAZARDOUS POLYMERIZATION WILL NOT OCCUR.  
 REACTIONS:  
 CONDITIONS TO AVOID..... NONE KNOWN. AVOID MOISTURE.  
 INCOMPATIBLE MATERIALS:..... HEAT IS GENERATED WHEN MIXED WITH WATER OR AQUEOUS ACIDS. SPATTERING AND BOILING CAN OCCUR. AVOID CONTACT WITH: BROMIDE TRIFLUORIDE, 2-FURAN PERCARBOXYLIC ACID BECAUSE CALCIUM CHLORIDE IS INCOMPATIBLE WITH THOSE SUBSTANCES. CONTACT WITH ZINC FORMS FLAMMABLE HYDROGEN GAS, WHICH CAN BE EXPLOSIVE. CATALYZES EXOTHERMIC POLYMERIZATION OF METHYL VINYL ETHER. ATTACKS METALS IN THE PRESENCE OF MOISTURE, AND MAY RELEASE FLAMMABLE HYDROGEN GAS. REACTION OF BROMIDE IMPURITY WITH OXIDIZING MATERIALS MAY GENERATE TRACE LEVELS OF IMPURITIES SUCH AS BROMATES.  
 HAZARDOUS PRODUCTS OF DECOMPOSITION ..... HYDROGEN CHLORIDE GAS, CALCIUM OXIDE FORMED UNDER FIRE CONDITIONS.

**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
CALCIUM CHLORIDE	N.AV.	1000 MG/KG (ORAL, RAT); 2630 MG/KG (DERMAL, RAT)
POTASSIUM CHLORIDE	N.AV.	2600 MG/KG (ORAL, RAT)
SODIUM CHLORIDE	42 G/M3 1H (INH, RAT).	3 G/KG (ORAL, RAT); 10 G/KG (DERMAL, RABBIT)

## INFORMATION ON LIKELY ROUTES OF ENTRY:

SKIN CONTACT..... BRIEF CONTACT IS ESSENTIALLY NONIRRITATING TO SKIN. PROLONGED CONTACT MAY CAUSE SKIN IRRITATION, EVEN A BURN. NOT CLASSIFIED AS CORROSIVE TO THE SKIN ACCORDING TO DOT GUIDELINES. MAY CAUSE MORE SEVERE RESPONSE IF SKIN IS DAMP, ABRADED (SCRATCHED OR CUT), OR COVERED BY CLOTHING, GLOVES, OR FOOTWEAR.  
 SKIN ABSORPTION..... N.AV.  
 EYE CONTACT..... MAY CAUSE SLIGHT EYE IRRITATION, MECHANICAL INJURY ONLY. DUST FORMATION SHOULD BE AVOIDED, AS DUST CAN CAUSE SEVERE EYE IRRITATION WITH CORNEAL INJURY.  
 INHALATION..... DUST MAY CAUSE IRRITATION TO UPPER RESPIRATORY TRACT (NOSE AND THROAT).  
 INGESTION..... LOW TOXICITY IF SWALLOWED. SMALL AMOUNTS SWALLOWED INCIDENTALLY AS A RESULT OF NORMAL HANDLING OPERATIONS ARE NOT LIKELY TO CAUSE INJURY; HOWEVER, SWALLOWING LARGER AMOUNTS MAY CAUSE LOCAL MUCOSAL DAMAGE TO ESOPHAGUS AND STOMACH. SWALLOWING MAY RESULT IN GASTROINTESTINAL IRRITATION OR ULCERATION.  
 EFFECTS OF ACUTE EXPOSURE..... SEE ABOVE.  
 EFFECTS OF CHRONIC EXPOSURE..... CHRONIC TOXICITY: FOR THE MINOR COMPONENT(S): POTASSIUM CHLORIDE - IN ANIMALS, EFFECTS HAVE BEEN REPORTED ON THE FOLLOWING ORGANS AFTER INGESTION: GASTROINTESTINAL TRACT, HEART, AND KIDNEY. DOSE LEVELS PRODUCING THESE EFFECTS WERE MANY TIMES HIGHER THAN ANY DOSE LEVELS EXPECTED FROM EXPOSURE DUE TO USE. MEDICAL EXPERIENCE WITH SODIUM CHLORIDE HAS SHOWN A STRONG ASSOCIATION BETWEEN ELEVATED BLOOD PRESSURE AND PROLONGED DIETARY OVERUSE. RELATED EFFECTS COULD OCCUR IN THE KIDNEYS.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

SIGNS AND SYMPTOMS OF ..... SOLUTION AND OR SOLIDS MAY BE VISIBLE ON THE SKIN AND OR EYES.  
OVEREXPOSURE LOCALIZED REDNESS, WARMTH, AND IRRITATION CONSISTENT WITH MECHANISM OF INJURY: ABRASION, BURN, HYPERTONIC SOLUTION. INHALATION (BREATHING): INHALING DUST MAY CAUSE IRRITATION TO UPPER RESPIRATORY TRACT (NOSE AND THROAT). NASAL MUCOSAL AND OROPHARYNGEAL EYTHEMA. SKIN: SKIN IRRITATION. DIRECT ABRASION OF SKIN FROM SOLID, ERYTHEMA AND BURN FROM REACTION WITH WATER. PROLONGED CONTACT AND OCCLUSION MAY CAUSE MORE SEVERE SYMPTOMS. DAMAGE IS LOCALIZED TO CONTACT AREAS. EYE: EYE IRRITATION. DIRECT ABRASION OF CORNEA FROM SOLID, ERYTHEMA AND BURN FROM REACTION WITH WATER, CONJUNCTIVAL SWELLING AND CORNEA OPACIFICATION FROM HYPERTONIC SOLUTION AND HEAT. CORNEAL EYE PAIN, REDNESS, ACUTE CORNEAL THICKENING OR WHITENING. INGESTION (SWALLOWING): CONSUMPTION OF SOLIDS OR HYPERTONIC SOLUTIONS CAUSES NAUSEA, VOMITING, AND INCREASED THIRST. THIS PRODUCT IS NOT CLASSIFIED AS A CARCINOGEN BY NTP, IARC OR OSHA.

CARCINOGENICITY OF MATERIAL..... N.AV.  
TERATOGENICITY..... N.AV.  
MUTAGENICITY..... NOT CLASSIFIED AS A MUTAGEN PER GHS CRITERIA. THE DATA PRESENTED ARE FOR THE FOLLOWING MATERIAL: CALCIUM CHLORIDE (CaCl<sub>2</sub>) - IN VITRO GENETIC TOXICITY STUDIES WERE NEGATIVE. THE DATA PRESENTED ARE FOR THE FOLLOWING MATERIAL: POTASSIUM CHLORIDE - IN VITRO GENETIC TOXICITY STUDIES WERE POSITIVE. HOWEVER, THE RELEVANCE OF THIS TO HUMANS IS UNKNOWN. FOR THE MINOR COMPONENT(S): SODIUM CHLORIDE - IN VITRO GENETIC TOXICITY STUDIES WERE PREDOMINANTLY NEGATIVE.

REPRODUCTIVE EFFECTS..... N.AV.  
SENSITIZING CAPABILITY OF MATERIAL N.AV.  
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**

WASTE TREATMENT METHODS:..... DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

**SECTION 14: TRANSPORT INFORMATION**

UN NUMBER..... N.AP.  
PROPER SHIPPING NAME..... N.AP.  
TDG CLASSIFICATION..... NOT REGULATED.  
PACKING GROUP..... N.AP.  
ENVIRONMENTAL HAZARDS ACCORDING TO THE INTERNATIONAL MARITIME DANGEROUS GOODS CODE AND THE UNITED NATIONS MODEL REGULATIONS: SPECIAL PRECAUTIONS IN CONNECTION WITH TRANSPORT OR CONVEYANCE EITHER WITHIN OR OUTSIDE THE PREMISES: N.AV.

**SECTION 15: REGULATORY INFORMATION**

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC TO THE PRODUCT: N.AV.

**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

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**SECTION 16: OTHER INFORMATION**

OTHER INFORMATION..... 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.

PREPARED BY..... REGULATORY AFFAIRS  
PREPARATION DATE..... APR 18/2017