



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

PRODUCT: ALKIL

CODE: MUR0038

## SECTION 01: IDENTIFICATION

PRODUCT IDENTIFIER..... ALKIL  
 PRODUCT CODE..... MUR0038  
 OTHER MEANS OF IDENTIFICATION  
 RECOMMENDED USE AND ..... SWIMMING POOL ALGAECIDE.  
 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..... FLAMMABLE LIQUIDS - CATEGORY 2. ACUTE TOXICITY (ORAL) - CATEGORY 4.  
 SKIN CORROSION - CATEGORY 1B. SERIOUS EYE DAMAGE - CATEGORY 1.  
 SIGNAL WORD..... DANGER.  
 HAZARD STATEMENT..... H225 HIGHLY FLAMMABLE LIQUID AND VAPOUR. H302 HARMFUL IF SWALLOWED.  
 H314 CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.  
 PRECAUTIONARY STATEMENT..... P210 KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. - NO  
 SMOKING. P233 KEEP CONTAINER TIGHTLY CLOSED. P240 GROUND/BOND  
 CONTAINER AND RECEIVING EQUIPMENT. P241 USE EXPLOSION-PROOF  
 ELECTRICAL/VENTILATING/LIGHTING/EQUIPMENT. P242 USE ONLY  
 NON-SPARKING TOOLS. P280 WEAR PROTECTIVE GLOVES/PROTECTIVE  
 CLOTHING/EYE PROTECTION/FACE PROTECTION. P303+P361+P353 IF ON SKIN  
 (OR HAIR): REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING.  
 RINSE SKIN WITH WATER/SHOWER. P403+P235 STORE IN A WELL-VENTILATED  
 PLACE. KEEP COOL. P264 WASH SKIN THOROUGHLY AFTER HANDLING. P270 DO  
 NO EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. P301+P312 IF  
 SWALLOWED: CALL A POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL  
 UNWELL. P330 RINSE MOUTH. P260 DO NOT BREATHE  
 DUST/FUME/GAS/MIST/VAPOURS/SPRAY. 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 IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR  
 SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO.  
 CONTINUE RINSING. P405 STORE LOCKED UP. 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. %
QUATERNARY AMMONIUM COMPOUNDS BENZYL-C12-C16-ALKYLDIMETHYL,CHLORIDES	68424-85-1	5-10
ETHANOL	64-17-5	<2

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**SECTION 04: FIRST AID MEASURES**

## DESCRIPTION OF FIRST AID MEASURES:

EYE CONTACT.....	IMMEDIATELY FLUSH EYES WITH WATER FOR 15-20 MINUTES, WHILE HOLDING EYELIDS OPEN. REMOVE CONTACT LENSES, IF PRESENT, AFTER THE FIRST 5 MINUTES, THEN CONTINUE RINSING EYE. CALL A POISON CONTROL CENTER OR DOCTOR FOR TREATMENT ADVICE.
SKIN CONTACT.....	TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. CHEMICAL BURNS MUST BE TREATED BY A PHYSICIAN. WASH CONTAMINATED CLOTHING BEFORE REUSE.
INHALATION.....	MOVE TO FRESH AIR. CALL A PHYSICIAN IF SYMPTOMS DEVELOP OR PERSIST.
INGESTION.....	CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. RINSE MOUTH. DO NOT INDUCE VOMITING. IF VOMITING OCCURS, KEEP HEAD LOW SO THAT STOMACH CONTENT DOESN'T GET INTO THE LUNGS.
MOST IMPORTANT SYMPTOMS AND EFFECTS, ACUTE OR DELAYED:	BURNING PAIN AND SEVERE CORROSIVE SKIN DAMAGE. CAUSES SERIOUS EYE DAMAGE. SYMPTOMS MAY INCLUDE STINGING, TEARING, REDNESS, SWELLING, AND BLURRED VISION. PERMANENT EYE DAMAGE INCLUDING BLINDNESS COULD RESULT.
INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED	PROVIDE GENERAL SUPPORTIVE MEASURES AND TREAT SYMPTOMATICALLY. THERMAL BURNS: FLUSH WITH WATER IMMEDIATELY. WHILE FLUSHING, REMOVE CLOTHES WHICH DO NOT ADHERE TO AFFECTED AREA. CALL AN AMBULANCE. CONTINUE FLUSHING DURING TRANSPORT TO HOSPITAL. CHEMICAL BURNS: FLUSH WITH WATER IMMEDIATELY. WHILE FLUSHING, REMOVE CLOTHES WHICH DO NOT ADHERE TO AFFECTED AREA. CALL AN AMBULANCE. CONTINUE FLUSHING DURING TRANSPORT TO HOSPITAL. KEEP VICTIM WARM. KEEP VICTIM UNDER OBSERVATION. SYMPTOMS MAY BE DELAYED.
GENERAL:.....	TAKE OFF ALL CONTAMINATED CLOTHING IMMEDIATELY. ENSURE THAT MEDICAL PERSONNEL ARE AWARE OF THE MATERIAL(S) INVOLVED, AND TAKE PRECAUTIONS TO PROTECT THEMSELVES. SHOW THIS SAFETY DATA SHEET TO THE DOCTOR IN ATTENDANCE. WASH CONTAMINATED CLOTHING BEFORE REUSE.

**SECTION 05: FIRE FIGHTING MEASURES**

SUITABLE EXTINGUISHING MEDIA.....	ALCOHOL RESISTANT FOAM. WATER FOG. CARBON DIOXIDE (CO2). DRY CHEMICAL POWDER, CARBON DIOXIDE, SAND OR EARTH MAY BE USED FOR SMALL FIRES ONLY.
UNSUITABLE EXTINGUISHING MEDIA.....	DO NOT USE WATER JET AS AN EXTINGUISHER, AS THIS WILL SPREAD THE FIRE.
SPECIAL HAZARDS ARISING FROM THE PRODUCT:	VAPORS MAY FORM EXPLOSIVE MIXTURES WITH AIR. VAPORS MAY TRAVEL CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK. THIS PRODUCT IS A POOR CONDUCTOR OF ELECTRICITY AND CAN BECOME ELECTROSTATICALLY CHARGED. IF SUFFICIENT CHARGE IS ACCUMULATED, IGNITION OF FLAMMABLE MIXTURES CAN OCCUR. TO REDUCE POTENTIAL FOR STATIC DISCHARGE, USE PROPER BONDING AND GROUNDING PROCEDURES. THIS LIQUID MAY ACCUMULATE STATIC ELECTRICITY WHEN FILLING PROPERLY GROUNDED CONTAINERS. STATIC ELECTRICITY ACCUMULATION MAY BE SIGNIFICANTLY INCREASED BY THE PRESENCE OF SMALL QUANTITIES OF WATER OR OTHER CONTAMINANTS.
HAZARDOUS COMBUSTION PRODUCTS. SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS:	DURING FIRE, GASES HAZARDOUS TO HEALTH MAY BE FORMED. MATERIAL WILL FLOAT AND MAY IGNITE ON SURFACE OF WATER. DURING FIRE, GASES HAZARDOUS TO HEALTH MAY BE FORMED. SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING MUST BE WORN IN CASE OF FIRE. IN CASE OF FIRE AND/OR EXPLOSION DO NOT BREATHE FUMES. MOVE CONTAINERS FROM FIRE AREA IF YOU CAN DO SO WITHOUT RISK. USE STANDARD FIREFIGHTING PROCEDURES AND CONSIDER THE HAZARDS OF OTHER INVOLVED MATERIALS.

**SECTION 06: ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS.....	KEEP UNNECESSARY PERSONNEL AWAY. KEEP PEOPLE AWAY FROM AND UPWIND OF SPILL/LEAK. ELIMINATE ALL IGNITION SOURCES (NO SMOKING, FLARES, SPARKS, OR FLAMES IN IMMEDIATE AREA). WEAR APPROPRIATE PROTECTIVE EQUIPMENT AND CLOTHING DURING CLEAN-UP. DO NOT BREATHE MIST OR VAPOR. DO NOT TOUCH DAMAGED CONTAINERS OR SPILLED MATERIAL UNLESS WEARING APPROPRIATE PROTECTIVE CLOTHING. VENTILATE CLOSED SPACES BEFORE ENTERING THEM. USE APPROPRIATE CONTAINMENT TO AVOID ENVIRONMENTAL CONTAMINATION. TRANSFER BY MECHANICAL MEANS SUCH AS VACUUM TRUCK TO A SALVAGE TANK OR OTHER SUITABLE CONTAINER FOR RECOVERY OR SAFE DISPOSAL. LOCAL AUTHORITIES SHOULD BE ADVISED IF SIGNIFICANT SPILLAGES CANNOT BE CONTAINED. FOR PERSONAL PROTECTION, SEE SECTION 8 OF THE SDS.
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**SECTION 06: ACCIDENTAL RELEASE MEASURES**

ENVIRONMENTAL PRECAUTIONS..... AVOID RELEASE TO THE ENVIRONMENT. PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. AVOID DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND. INFORM APPROPRIATE MANAGERIAL OR SUPERVISORY PERSONNEL OF ALL ENVIRONMENTAL RELEASES. USE APPROPRIATE CONTAINMENT TO AVOID ENVIRONMENTAL CONTAMINATION.

METHODS AND MATERIALS FOR ..... ELIMINATE ALL IGNITION SOURCES (NO SMOKING, FLARES, SPARKS, OR FLAMES IN IMMEDIATE AREA). TAKE PRECAUTIONARY MEASURES AGAINST STATIC CONTAINMENT AND CLEANING UP ..... DISCHARGE. USE ONLY NON-SPARKING TOOLS. KEEP COMBUSTIBLES (WOOD, PAPER, OIL, ETC.) AWAY FROM SPILLED MATERIAL. LARGE SPILLS: STOP THE FLOW OF MATERIAL, IF THIS IS WITHOUT RISK. DIKE THE SPILLED MATERIAL, WHERE THIS IS POSSIBLE. COVER WITH PLASTIC SHEET TO PREVENT SPREADING. USE A NON-COMBUSTIBLE MATERIAL LIKE VERMICULITE, SAND OR EARTH TO SOAK UP THE PRODUCT AND PLACE INTO A CONTAINER FOR LATER DISPOSAL. PREVENT PRODUCT FROM ENTERING DRAINS. FOLLOWING PRODUCT RECOVERY, FLUSH AREA WITH WATER. SMALL SPILLS: ABSORB WITH EARTH, SAND OR OTHER NON-COMBUSTIBLE MATERIAL AND TRANSFER TO CONTAINERS FOR LATER DISPOSAL. WIPE UP WITH ABSORBENT MATERIAL (E.G. CLOTH, FLEECE). CLEAN SURFACE THOROUGHLY TO REMOVE RESIDUAL CONTAMINATION. NEVER RETURN SPILLS TO ORIGINAL CONTAINERS FOR RE-USE.

**SECTION 07: HANDLING AND STORAGE**

PRECAUTIONS FOR SAFE HANDLING:..... DO NOT HANDLE, STORE OR OPEN NEAR AN OPEN FLAME, SOURCES OF HEAT OR SOURCES OF IGNITION. PROTECT MATERIAL FROM DIRECT SUNLIGHT. EXPLOSION-PROOF GENERAL AND LOCAL EXHAUST VENTILATION. MINIMIZE FIRE RISKS FROM FLAMMABLE AND COMBUSTIBLE MATERIALS (INCLUDING COMBUSTIBLE DUST AND STATIC ACCUMULATING LIQUIDS) OR DANGEROUS REACTIONS WITH INCOMPATIBLE MATERIALS. HANDLING OPERATIONS THAT CAN PROMOTE ACCUMULATION OF STATIC CHARGES INCLUDE BUT ARE NOT LIMITED TO: MIXING, FILTERING, PUMPING AT HIGH FLOW RATES, SPLASH FILLING, CREATING MISTS OR SPRAYS, TANK AND CONTAINER FILLING, TANK CLEANING, SAMPLING, GAUGING, SWITCH LOADING, VACUUM TRUCK OPERATIONS. TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES. ALL EQUIPMENT USED WHEN HANDLING THE PRODUCT MUST BE GROUNDED. USE NON-SPARKING TOOLS AND EXPLOSION-PROOF EQUIPMENT. DO NOT BREATHE MIST OR VAPOR. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. AVOID PROLONGED EXPOSURE. DO NOT TASTE OR SWALLOW. WHEN USING, DO NOT EAT, DRINK OR SMOKE. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. WASH HANDS THOROUGHLY AFTER HANDLING. AVOID RELEASE TO THE ENVIRONMENT. OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES. FOR ADDITIONAL INFORMATION ON EQUIPMENT BONDING AND GROUNDING, REFER TO THE CANADIAN ELECTRICAL CODE IN CANADA, (CSA C22.1), OR THE AMERICAN PETROLEUM INSTITUTE (API) RECOMMENDED PRACTICE 2003, "PROTECTION AGAINST IGNITIONS ARISING OUT OF STATIC, LIGHTNING, AND STRAY CURRENTS" OR NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 77, "RECOMMENDED PRACTICE ON STATIC ELECTRICITY" OR NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70, "NATIONAL ELECTRICAL CODE".

CONDITIONS FOR SAFE STORAGE, ..... STORE LOCKED UP. KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. INCLUDING ANY IMCOMPATIBILITES: ..... PREVENT ELECTROSTATIC CHARGE BUILD-UP BY USING COMMON BONDING AND GROUNDING TECHNIQUES. ELIMINATE SOURCES OF IGNITION. AVOID SPARK PROMOTERS. GROUND/BOND CONTAINER AND EQUIPMENT. THESE ALONE MAY BE INSUFFICIENT TO REMOVE STATIC ELECTRICITY. STORE IN A COOL, DRY PLACE OUT OF DIRECT SUNLIGHT. STORE IN ORIGINAL TIGHTLY CLOSED CONTAINER. STORE IN A WELL-VENTILATED PLACE. KEEP IN AN AREA EQUIPPED WITH SPRINKLERS. STORE AWAY FROM INCOMPATIBLE MATERIALS (SEE SECTION 10 OF THE SDS).

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

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-C16-ALKYL DIMETHYL,CHLORIDES	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.
ETHANOL	N.AV.	1000 PPM	1900 MG/M3; 1000 PPM	N.AV.	TWA: 1900 MG/M3; 1000 PPM	

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

APPROPRIATE ENGINEERING CONTROLS	EXPLOSION-PROOF GENERAL AND LOCAL EXHAUST VENTILATION. GOOD GENERAL VENTILATION (TYPICALLY 10 AIR CHANGES PER HOUR) SHOULD BE USED. VENTILATION RATES SHOULD BE MATCHED TO CONDITIONS. IF APPLICABLE, USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO MAINTAIN AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS. IF EXPOSURE LIMITS HAVE NOT BEEN ESTABLISHED, MAINTAIN AIRBORNE LEVELS TO AN ACCEPTABLE LEVEL. EYE WASH FACILITIES AND EMERGENCY SHOWER MUST BE AVAILABLE WHEN HANDLING THIS PRODUCT.
INDIVIDUAL PROTECTION MEASURE SUCH AS PERSONAL PROTECTIVE EQUIPMENTS:	
HAND PROTECTION.....	WEAR APPROPRIATE CHEMICAL RESISTANT GLOVES. SUITABLE GLOVES CAN BE RECOMMENDED BY THE GLOVE SUPPLIER.
RESPIRATORY PROTECTION.....	IF ENGINEERING CONTROLS DO NOT MAINTAIN AIRBORNE CONCENTRATIONS BELOW RECOMMENDED EXPOSURE LIMITS (WHERE APPLICABLE) OR TO AN ACCEPTABLE LEVEL (IN COUNTRIES WHERE EXPOSURE LIMITS HAVE NOT BEEN ESTABLISHED), AN APPROVED RESPIRATOR MUST BE WORN.
EYE PROTECTION.....	WEAR SAFETY GLASSES WITH SIDE SHIELDS (OR GOGGLES) AND A FACE SHIELD.
PROTECTIVE CLOTHING.....	WEAR APPROPRIATE CHEMICAL RESISTANT CLOTHING.
PROTECTIVE FOOTWEAR.....	WEAR CHEMICAL RESISTANT FOOTWEAR.
OTHER.....	EYE WASH FOUNTAIN AND EMERGENCY SHOWERS ARE RECOMMENDED.
HYGIENIC PRACTICES.....	WHEN USING DO NOT SMOKE. KEEP AWAY FROM FOOD AND DRINK. ALWAYS OBSERVE GOOD PERSONAL HYGIENE MEASURES, SUCH AS WASHING AFTER HANDLING THE MATERIAL AND BEFORE EATING, DRINKING, AND/OR SMOKING. ROUTINELY WASH WORK CLOTHING AND PROTECTIVE EQUIPMENT TO REMOVE CONTAMINANTS.

**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE.....	LIQUID.
COLOR.....	LIGHT AMBER.
ODOUR.....	MILD AMINE ODOUR.
ODOUR THRESHOLD.....	N.AV.
PH.....	7.5.
FREEZING/MELTING POINT.....	N.AV.
BOILING POINT.....	N.AV.
FLASH POINT (C), METHOD.....	>103 DEG. F (39.4 DEG. C) - PENSKY MARTIN CLOSED CUP.
EVAPORATION RATE.....	N.AV.
FLAMMABILITY (SOLIDS AND GASES).....	N.AV.
UPPER FLAMMABLE LIMIT (% BY VOL.)...	NOT DETERMINED.
LOWER FLAMMABLE LIMIT (% BY VOL.)...	NOT DETERMINED.
VAPOUR PRESSURE (MMHG).....	N.AV.
VAPOUR DENSITY (AIR=1).....	N.AV.
RELATIVE DENSITY.....	1.0.
SOLUBILITY IN WATER (% W/W).....	SOLUBLE.
COEFFICIENT OF WATER/OIL DIST.....	N.AV.
AUTO IGNITION TEMPERATURE.....	N.AV.
DECOMPOSITION TEMPERATURE.....	N.AV.
VISCOSITY.....	N.AV.

**SECTION 10: STABILITY AND REACTIVITY**

REACTIVITY:.....	THE PRODUCT IS STABLE AND NON-REACTIVE UNDER NORMAL CONDITIONS OF USE, STORAGE AND TRANSPORT.
CHEMICAL STABILITY:.....	MATERIAL IS STABLE UNDER NORMAL CONDITIONS.
POSSIBILITY OF HAZARDOUS REACTIONS:.....	HAZARDOUS POLYMERIZATION WILL NOT OCCUR.
REACTIONS:	
CONDITIONS TO AVOID:.....	AVOID HEAT, SPARKS, OPEN FLAMES AND OTHER IGNITION SOURCES. AVOID TEMPERATURES EXCEEDING THE FLASH POINT. CONTACT WITH INCOMPATIBLE MATERIALS.
INCOMPATIBLE MATERIALS:.....	STRONG OXIDIZING AGENTS.
HAZARDOUS PRODUCTS OF DECOMPOSITION	NO HAZARDOUS DECOMPOSITION PRODUCTS ARE KNOWN. SEE HAZARDOUS COMBUSTION PRODUCTS.

**SECTION 11: TOXICOLOGICAL INFORMATION**

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**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-C16-ALKYLDIMETHYL,CHLORIDES	N.AV.	3560 MG/KG (DERMAL); 430 MG/KG (ORAL)
ETHANOL	117 - 125 MG/L, 4 H (INH, RAT)	10470 MG/KG (ORAL, RAT)
INFORMATION ON LIKELY ROUTES OF ENTRY:		
SKIN CONTACT.....	CAUSES SEVERE SKIN BURNS.	
SKIN ABSORPTION.....	N.AV.	
EYE CONTACT.....	CAUSES SERIOUS EYE DAMAGE.	
INHALATION.....	MAY CAUSE IRRITATION TO THE RESPIRATORY SYSTEM. PROLONGED INHALATION MAY BE HARMFUL.	
INGESTION.....	CAUSES DIGESTIVE TRACT BURNS. HARMFUL IF SWALLOWED.	
EFFECTS OF ACUTE EXPOSURE.....	CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. CAUSES SERIOUS EYE DAMAGE.	
EFFECTS OF CHRONIC EXPOSURE.....	PROLONGED INHALATION MAY BE HARMFUL.	
SIGNS AND SYMPTOMS OF OVEREXPOSURE		
CARCINOGENICITY OF MATERIAL.....	THIS PRODUCT IS NOT CONSIDERED TO BE A CARCINOGEN BY IARC, ACGIH, NTP, OR OSHA.	
TERATOGENICITY.....	N.AV.	
MUTAGENICITY.....	NO DATA AVAILABLE TO INDICATE PRODUCT OR ANY COMPONENTS PRESENT AT GREATER THAN 0.1% ARE MUTAGENIC OR GENOTOXIC.	
REPRODUCTIVE EFFECTS.....	THIS PRODUCT IS NOT EXPECTED TO CAUSE REPRODUCTIVE OR DEVELOPMENTAL EFFECTS.	
SENSITIZING CAPABILITY OF MATERIAL	NOT A RESPIRATORY SENSITIZER.	
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.....	2920.
PROPER SHIPPING NAME.....	CORROSIVE LIQUID, FLAMMABLE, N.O.S. (QUATERNARY AMMONIUM COMPOUND OR CHLORIDE, ETHANOL).
TDG CLASSIFICATION.....	8 (3).
PACKING GROUP.....	II.
ENVIRONMENTAL HAZARDS ACCORDING TO THE INTERNATIONAL MARITIME DANGEROUS GOODS CODE AND THE UNITED NATIONS MODEL REGULATIONS:	N.AV.
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

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**SECTION 16: OTHER INFORMATION**

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.

PREPARED BY..... REGULATORY AFFAIRS  
PREPARATION DATE..... JAN 1/2024