



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

PRODUCT: ALGON

CODE: MUR0037

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..... May28/11
PRODUCT NAME..... ALGON
PRODUCT CODE..... MUR0037
CHEMICAL FORMULA..... MIXTURE.
MOLECULAR WEIGHT..... MIXTURE.
CHEMICAL FAMILY..... MIXTURE.
MATERIAL USE..... SWIMMING POOL EQUIPMENT CLEANER.
EMERGENCY PHONE NO..... CANUTEC (613)-996-6666.

Section 02: HAZARDS IDENTIFICATION

ROUTE OF ENTRY:
SKIN CONTACT..... MAY CAUSE CORROSIVE BURNS. BRIEF EXPOSURES MAY CAUSE IRRITATION AND DEFATTING OF THE SKIN.
SKIN ABSORPTION..... N.AV.
EYE CONTACT..... MAY CAUSES BURN AND MAY RESULT IN PERMANENT INJURY TO EYES INCLUDING BLINDNESS.
INHALATION..... MISTS AND VAPORS MAY IRRITATE THE THROAT AND RESPIRATORY TRACT. HIGH VAPOR CONCENTRATIONS MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS. SYMPTOMS MAY INCLUDE HEADACHES, DIZZINESS, AND DROWSINESS.
INGESTION..... INGESTION MAY CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING AND DIARRHEA.
EFFECTS OF ACUTE EXPOSURE..... SEE ABOVE.
EFFECTS OF CHRONIC EXPOSURE..... INGESTION OF ETHANOL BY PREGNANT WOMEN CAN CAUSE REPRODUCTIVE TOXICITY TO THE FETUS.

Section 03: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	%	Exposure Limit	C.A.S.#	LD/50, Route,Species	LC/50 Route,Species
ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE (C12-18)	5-10	SEE SECTION 11	68391-01-5	SEE SECTION 11	SEE SECTION 11
ALKYL (68% C12, 32% C14) DIMETHYL ETHYLBENZYL AMMONIUM CHLORIDE	5-10	SEE SECTION 11	85409-23-0	SEE SECTION 11	SEE SECTION 11
ETHANOL	1-5	SEE SECTION 11	64-17-5	SEE SECTION 11	SEE SECTION 11

Section 04: FIRST AID MEASURES

EYE CONTACT..... IMMEDIATELY FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES, WHILE HOLDING EYELIDS OPEN. REMOVE CONTACT LENSES, IF PRESENT, AFTER THE FIRST 5 MINUTES, THEN CONTINUE RINSING EYE. SEEK MEDICAL ATTENTION AT ONCE.
SKIN CONTACT..... TAKE OFF CONTAMINATED CLOTHING. RINSE SKIN IMMEDIATELY WITH PLENTY OF WATER FOR 15-20 MINUTES. CALL A POISON CONTROL CENTER OR DOCTOR FOR TREATMENT ADVICE.
INHALATION..... IF SYMPTOMS ARE EXPERIENCE, MOVE VICTIM TO FRESH AIR. IF PERSON IS NOT BREATHING, CALL 911 OR AN AMBULANCE, THEN GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH IF POSSIBLE. CALL A POISON CONTROL CENTER OR DOCTOR FOR FURTHER TREATMENT ADVICE.
INGESTION..... CALL A POISON CONTROL CENTER OR DOCTOR IMMEDIATELY FOR TREATMENT ADVICE. HAVE PERSON SIP A GLASS OF WATER IF ABLE TO SWALLOW. DO NOT INDUCE VOMITING UNLESS TOLD TO DO SO BY A POISON CONTROL CENTER OR DOCTOR. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.
NOTES TO PHYSICIAN..... PROBABLE MUCOSAL DAMAGE MAY CONTRAINDICATE THE USE OF GASTRIC LAVAGE.

PRODUCT: ALGON

CODE: MUR0037

Section 05: FIRE FIGHTING MEASURES

T.D.G. FLAM. CLASS..... NON FLAMMABLE.
 FLAMMABILITY..... NON FLAMMABLE.
 IF YES, UNDER WHICH CONDITIONS?
 EXTINGUISHING MEDIA..... DRY CHEMICAL, FOAM, CARBON DIOXIDE OR WATER FOG. SOLID WATER STREAMS MAY SPREAD BURNING LIQUID.
 SPECIAL PROCEDURES..... FIREFIGHTERS SHOULD WEAR FULL PROTECTIVE CLOTHING INCLUDING SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH SPRAY.
 FLASH POINT (C), METHOD..... >104 F (40.0 C) - PENSKEY MARTIN CLOSED CUP.
 AUTO IGNITION TEMPERATURE..... N.AV.
 UPPER FLAMMABLE LIMIT (% BY VOL.).... N.AV.
 LOWER FLAMMABLE LIMIT (% BY VOL.)... N.AV.
 EXPLOSION DATA..... N.AV.
 EXPLOSIVE POWER..... N.AV.
 RATE OF BURNING..... N.AV.
 SENSITIVITY TO STATIC DISCHARGE..... N.AV.
 SENSITIVITY TO IMPACT..... N.AV.
 UNUSUAL FIRE AND EXPLOSION EXPLOSIVE MIXTURES CAN FORM WITH AIR. COMBUSTION PRODUCTS ARE HAZARDS TOXIC. SOLVENT VAPORS CAN TRAVEL TO AN IGNITION SOURCE AND FLASH BACK.
 HAZARDOUS COMBUSTION PRODUCTS.. IRRITATING AND TOXIC GASES OR FUMES MAY BE RELEASED DURING A FIRE.

Section 06: ACCIDENTAL RELEASE MEASURES

LEAK/SPILL..... ISOLATE SPILL OR LEAK AREA IMMEDIATELY. KEEP UNAUTHORIZED PERSONNEL AWAY. STAY UPWIND. KEEP OUT OF LOW AREAS WHERE VAPORS MAY ACCUMULATE. ELIMINATE ALL IGNITION SOURCES (NO SMOKING, FLARES, SPARKS OR FLAMES IN IMMEDIATE AREA). VENTILATE CLOSED SPACES BEFORE ENTERING. ALL EQUIPMENT USED WHEN HANDLING THE PRODUCT MUST BE GROUNDED. FLOOR WILL BE SLIPPERY. DO NOT TOUCH OR WALK THROUGH SPILLED MATERIAL. STOP LEAK IF YOU CAN DO IT WITHOUT RISK. A VAPOR SUPPRESSING FOAM MAY BE USED TO REDUCE VAPORS. PREVENT ENTRY INTO WATERWAYS, SEWERS, BASEMENTS OR CONFINED AREAS. ABSORB OR COVER WITH DRY EARTH, SAND OR OTHER NON-COMBUSTIBLE MATERIAL AND TRANSFER TO CONTAINERS. USE CLEAN NON-SPARKING TOOLS TO COLLECT ABSORBED MATERIAL. FOR LARGE SPILLS: DIKE FAR AHEAD OF LIQUID SPILL FOR LATER DISPOSAL. WATER SPRAY MAY REDUCE VAPOR BUT WILL INCREASE FOAMING. WATER MAY NOT PREVENT IGNITION IN CLOSED SPACES.

Section 07: HANDLING AND STORAGE

HANDLING PROCEDURES AND AVOID CONTACT WITH SKIN AND EYES. USE GOOD PERSONAL HYGIENE EQUIPMENT PRACTICES. WASH HANDS BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. WASH THOROUGHLY AFTER WORK USING SOAP AND WATER.
 STORAGE NEEDS..... KEEP THE CONTAINER TIGHTLY CLOSED AND IN A COOL, WELL-VENTILATED PLACE. KEEP FROM FREEZING. DO NOT HANDLE OR STORE NEAR AN OPEN FLAME, HEAT OR OTHER SOURCES OF IGNITION. PREVENT ELECTROSTATIC CHARGE BUILDUP BY USING COMMON BONDING AND GROUNDING TECHNIQUES.

Section 08: EXPOSURE CONTROLS AND PERSONAL PROTECTION

GLOVES/ TYPE..... USE IMPERVIOUS GLOVES (RUBBER OR NEOPRENE).
 RESPIRATORY/TYPE..... IF EXPOSURE LIMITS ARE EXCEEDED OR IF IRRITATION IS EXPERIENCED, NIOSH APPROVED RESPIRATORY PROTECTION SHOULD BE WORN. VENTILATION AND OTHER FORMS OF ENGINEERING CONTROLS ARE OFTEN THE PREFERRED MEANS FOR CONTROLLING CHEMICAL EXPOSURES. RESPIRATORY PROTECTION MAY BE NEEDED FOR NON-ROUTINE OR EMERGENCY SITUATIONS.
 EYE/TYPE..... WEAR CHEMICAL GOGGLES. USE A FACE SHIELD IF SPLASHING IS POSSIBLE.
 FOOTWEAR/TYPE..... WEAR APPROPRIATE PROTECTIVE FOOTWEAR.
 CLOTHING/TYPE..... WEAR SUITABLE PROTECTIVE CLOTHING.
 OTHER/TYPE..... EYEWASH STATION AND SAFETY SHOWER IN WORK AREA.
 ENGINEERING CONTROLS..... PROVIDE ADEQUATE LOCAL EXHAUST VENTILATION (EXPLOSION PROOF) TO MAINTAIN WORKER EXPOSURE BELOW EXPOSURE LIMITS.

Section 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE..... LIQUID.
 COLOR..... WATER-WHITE.
 ODOUR..... SLIGHT SWEET.
 ODOUR THRESHOLD..... N.AV.
 VAPOUR PRESSURE (MMHG)..... N.AV.
 VAPOUR DENSITY (AIR=1)..... N.AV.
 BY VOLUME

PRODUCT: ALGON

CODE: MUR0037

Section 09: PHYSICAL AND CHEMICAL PROPERTIES

BY WEIGHT
 EVAPORATION RATE..... N.AV.
 BOILING POINT..... N.AV.
 PH..... 7.5.
 SPECIFIC GRAVITY (WATER=1)..... 1.0.
 SOLUBILITY IN WATER (% W/W)..... SOLUBLE.
 COEFFICIENT OF WATER/OIL DIST..... N.AV.

Section 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY:..... STABLE.
 CONDITIONS TO AVOID..... KEEP AWAY FROM HEAT AND STRONG OXIDIZING AGENTS.
 MATERIALS TO AVOID..... STRONG OXIDIZING AGENTS (MAY RESULT IN FIRE.), REDUCING AGENTS.
 HAZARDOUS PRODUCTS OF CARBON MONOXIDE, CARBON DIOXIDE AND TOXIC HYDROGEN CHLORIDE
 DECOMPOSITION VAPORS.
 HAZARDOUS POLYMERIZATION..... WILL NOT OCCUR.

Section 11: TOXICOLOGICAL INFORMATION

EXPOSURE LIMIT OF MATERIAL..... FOR ETHANOL 64-17-5: ACGIH - THRESHOLD LIMITS VALUES - TIME WEIGHTED AVERAGES (TLV-TWA) 1000 PPM TWA.
 LC 50 OF MATERIAL, SPECIES & ROUTE.. N.AV.
 LD 50 OF MATERIAL, SPECIES & ROUTE.. N.AV.
 CARCINOGENICITY OF MATERIAL..... NTP, IARC, OSHA - NOT LISTED.
 REPRODUCTIVE EFFECTS..... N.AV.
 DEVELOPMENTAL TOXICITY..... N.AV.
 IRRITANCY OF MATERIAL..... SEE SECTION 2.
 SENSITIZING CAPABILITY OF MATERIAL. N.AV.
 SYNERGISTIC MATERIALS..... N.AV.
 MUTAGENICITY..... N.AV.
 TERATOGENICITY..... N.AV.

Section 12: ECOLOGICAL CONSIDERATIONS

ECOLOGICAL INFORMATION..... VERY TOXIC TO AQUATIC ORGANISMS. THIS PRODUCT IS BIODEGRADABLE.

Section 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL..... DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

Section 14: TRANSPORT INFORMATION

TDG CLASSIFICATION..... 8.
 PROPER SHIPPING NAME..... DISINFECTANT LIQUID CORROSIVE N.O.S.(QUATERNARY AMMONIUM COMPOUND).
 UN NUMBER..... 1903.
 PACKING GROUP..... II.
 SPECIAL SHIPPING INSTRUCTIONS..... NO SPECIAL SHIPPING REQUIREMENTS.

Section 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION..... 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.