



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..... Jun01/08  
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: 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)	3-7	N.AV.	68391-01-5	N.AV.	N.AV.
ALKYL (68% C12, 32% C14) DIMETHYL ETHYLBENZYL AMMONIUM CHLORIDE	3-7	N.AV.	85409-23-0	N.AV.	N.AV.
ETHANOL	0.5-1.5	SEE SECTION 11	64-17-5	SEE SECTION 11	SEE SECTION 11

**Section 03: HAZARDS IDENTIFICATION**

ROUTE OF ENTRY:  
SKIN CONTACT..... THIS PRODUCT MAY BE CORROSIVE TO THE SKIN.  
SKIN ABSORPTION..... THIS PRODUCT MAY BE HARMFUL IF IT IS ABSORBED THROUGH THE SKIN.  
EYE CONTACT..... THIS PRODUCT MAY BE CORROSIVE TO EYES.  
INHALATION..... EXPOSURE VIA INHALATION NOT LIKELY.HIGH VAPOR CONCENTRATIONS MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS.EFFECTS MAY INCLUDE HEADACHES, DIZZINESS, DROWSINESS, ANESTHETIC AND MAY HAVE OTHER CENTRAL NERVOUS SYSTEM EFFECTS.  
INGESTION..... THIS PRODUCT MAY BE FATAL IF IT IS SWALLOWED.  
EFFECTS OF ACUTE EXPOSURE..... SEE ABOVE.  
EFFECTS OF CHRONIC EXPOSURE..... SEE ABOVE.  
INHALATION, CHRONIC..... SEE ABOVE.

**Section 04: FIRST AID MEASURES**

EYE CONTACT..... IMMEDIATELY FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES, WHILE HOLDING EYELIDS OPEN. SEEK MEDICAL ATTENTION AT ONCE. .  
SKIN CONTACT..... IMMEDIATELY TAKE OFF ALL CONTAMINATED CLOTHING.WASH CONTAMINATED CLOTHING BEFORE REUSE.FOR SKIN CONTACT FLUSH WITH LARGE AMOUNTS OF WATER.GET MEDICAL ATTENTION OR ADVICE.  
INGESTION..... IF THE MATERIAL IS SWALLOWED, GET IMMEDIATE MEDICAL ATTENTION OR ADVICE. NEVER GIVE ANYTHING BY MOUTH TO A VICTIM WHO IS UNCONSCIOUS OR IS HAVING CONVULSIONS. DO NOT INDUCE VOMITING.  
INHALATION..... IF SYMPTOMS ARE EXPERIENCED, REMOVE SOURCE OF CONTAMINATION OR MOVE VICTIM TO FRESH AIR.IF SYMPTOMS PERSIST, GET MEDICAL ATTENTION.IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN.SEEK MEDICAL ATTENTION.  
NOTES TO PHYSICIAN..... IF THE PRODUCT IS INGESTED, PROBABLE MUCOSAL DAMAGE MAY CONTRAINDICATE THE USE OF GASTRIC LAVAGE. TREAT THE AFFECTED PERSON APPROPRIATELY. .

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**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, WATER FOG. USE WATER TO COOL FIRE-EXPOSED CONTAINERS AND TO PROTECT PERSONNEL.  
 SPECIAL PROCEDURES..... FIREFIGHTERS SHOULD WEAR FULL FIRE-FIGHTING TURN-OUT GEAR (FULL BUNKER GEAR) INCLUDING NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE.  
 FLASH POINT (C), METHOD..... >93.3.  
 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.  
 HAZARDOUS COMBUSTION PRODUCTS.. CARBON DIOXIDE AND CARBON MONOXIDE. AMMONIA. NITROGEN OXIDES.

**Section 06: ACCIDENTAL RELEASE MEASURES**

LEAK/SPILL..... ISOLATE SPILL OR LEAK AREA IMMEDIATELY. KEEP UNAUTHORIZED PERSONNEL AWAY. VENTILATE ENCLOSED AREAS. WEAR APPROPRIATE PROTECTIVE EQUIPMENT. ABSORB WITH AN INERT ABSORBENT. COLLECT IN SUITABLE AND PROPERLY LABELED CONTAINERS. WASH AFFECTED AREA WITH WATER. KEEP FROM ENTERING WATERWAYS OR SEWERS. COLLECT AND CONTAIN FOR DISPOSAL.

**Section 07: HANDLING AND STORAGE**

HANDLING PROCEDURES AND EQUIPMENT ..... AVOID CONTACT WITH SKIN AND EYES. WASH HANDS BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. WASH THOROUGHLY AFTER WORK USING SOAP AND WATER. AS WITH ALL CHEMICALS, GOOD INDUSTRIAL HYGIENE PRACTICES SHOULD BE FOLLOWED WHEN HANDLING THIS MATERIAL.  
 STORAGE NEEDS..... DO NOT HANDLE OR STORE NEAR AN OPEN FLAME, HEAT OR OTHER SOURCES OF IGNITION. STORE IN A COOL, DRY, WELL-VENTILATED AREA.

**Section 08: EXPOSURE CONTROLS/PERSONAL PROTECTION**

GLOVES/ TYPE..... IMPERVIOUS GLOVES.  
 RESPIRATORY/TYPE..... IF IRRITATION IS EXPERIENCED, A NIOSH-APPROVED RESPIRATOR 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; FACE SHIELD (IF SPLASHING IS POSSIBLE).  
 FOOTWEAR/TYPE..... SEE BELOW.  
 CLOTHING/TYPE..... SKIN CONTACT SHOULD BE PREVENTED THROUGH USE OF SUITABLE PROTECTIVE CLOTHING, GLOVES AND FOOTWEAR, SELECTED WITH REGARD FOR USE CONDITIONS AND EXPOSURE POTENTIAL. CONSIDERATION MUST BE GIVEN BOTH TO DURABILITY AS WELL AS PERMEATION RESISTANCE.  
 OTHER/TYPE..... EYEWASH STATION AND SAFETY SHOWER IN WORK AREA.  
 ENGINEERING CONTROLS..... GENERAL VENTILATION. LOCAL EXHAUST FOR MISTS AND VAPOURS.

**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)  
 BY VOLUME..... N.AV.  
 BY WEIGHT..... N.AV.  
 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.

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**Section 10: STABILITY AND REACTIVITY**

CHEMICAL STABILITY:  
 YES..... STABLE.  
 NO, WHICH CONDITIONS?  
 CONDITIONS TO AVOID..... KEEP AWAY FROM HEAT, SPARKS, OR OPEN FLAME.  
 COMPATABILITY WITH OTHER  
 SUBSTANCES:  
 YES  
 NO, WHICH ONES?..... OXIDIZING AGENTS.  
 REACTIVITY CONDITIONS:..... CONTACT WITH INCOMPATIBLES.  
 HAZARDOUS PRODUCTS OF ..... CARBON MONOXIDE, CARBON DIOXIDE. AMMONIA. NITROGEN OXIDES.  
 DECOMPOSITION  
 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.. FOR ETHANOL 64-17-5: TOXICOLOGY DATA - SELECTED LC50S INHALATION LC50 RAT: 124.7 MG/L/4H.  
 LD 50 OF MATERIAL, SPECIES & ROUTE.. ORAL LD50 (RAT) = >50 - 500 MG/KG. FOR ETHANOL 64-17-5: TOXICOLOGY DATA - SELECTED LD50S: ORAL LD50 RAT: 1501 MG/KG.  
 CARCINOGENICITY OF MATERIAL..... COMPONENTS ARE NOT LISTED CARCINOGENS.  
 REPRODUCTIVE EFFECTS..... N.AV.  
 DEVELOPMENTAL TOXICITY..... N.AV.  
 IRRITANCY OF MATERIAL..... SEE SECTION 03.  
 SENSITIZING CAPABILITY OF MATERIAL. N.AV.  
 SYNERGISTIC MATERIALS..... N.AV.  
 MUTAGENICITY..... N.AV.  
 TERATOGENICITY..... N.AV.

**Section 12: ECOLOGICAL CONSIDERATIONS**

ECOLOGICAL INFORMATION..... N.AV.

**Section 13: DISPOSAL CONSIDERATIONS**

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

**Section 14: TRANSPORT INFORMATION**

TDG CLASSIFICATION..... 8.  
 PROPER SHIPPING NAME..... CORROSIVE LIQUIDS, N.O.S. (ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE).  
 UN NUMBER..... 1760.  
 PACKING GROUP..... II.  
 SPECIAL SHIPPING INSTRUCTIONS..... NO SPECIAL SHIPPING REQUIREMENTS.

**Section 15: REGULATORY INFORMATION**

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.  
 WHMIS CLASSIFICATION..... D2A, E.

**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.