

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

PRODUCT: 4-L-G CODE: MUR0036

#### SECTION 01: IDENTIFICATION

PRODUCT CODE..... MUR0036 PRODUCT IDENTIFIER..... 4-L-G OTHER MEANS OF IDENTIFICATION...... RECOMMENDED USE AND ..... N.AV. 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**





ACUTE TOXICITY (ORAL) - CATEGORY 4. ACUTE TOXICITY (INHALATION) — CATEGORY 4. EYE IRRITATION - CATEGORY 2B . ACUTE AQUATIC TOXICITY -HAZARD CLASSIFICATION..... CATEGORY 1. CHRONIC AQUATIC TOXICITY - CATEGORY 1.

SIGNAL WORD..... WARNING.

H302 HARMFUL IF SWALLOWED. H320 CAUSES EYE IRRITATION. H332 HARMFUL IF HAZARD STATEMENT..... INHALED. H410 VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

P264 WASH SKIN THOROUGHLY AFTER HANDLING. P270 DO NO EAT, DRINK OR PRECAUTIONARY STATEMENT..... SMOKE WHEN USING THIS PRODUCT. P301+P312+P330 IF SWALLOWED: CALL A POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL. RINSE MOUTH. 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. P261 AVOID BREATHING

DUST/FUME/GAS/MIST/VAPOURS/SPRAY. P271 USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA. P304+P340+P312 IF INHALED: REMOVE VICTIM TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING. CALL A POISON CENTER

OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL. 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. %

1,2-ETHANEDIAMINE,N,N,',N',-TETRAMETHYL, POLYMER WITH 31075-24-8 1,1'-OXYBIS (2-CHLOROETHANE)

25-50

# **SECTION 04: FIRST AID MEASURES**

**DESCRIPTION OF FIRST AID MEASURES:** 

EYE CONTACT..... IMMEDIATELY FLUSH THE CONTAMINATED EYE(S) WITH LUKEWARM, GENTLY FLOWING WATER FOR AT LEAST 15 - 20 MINUTES OR UNTIL THE CHÉMICAL IS

REMOVED, WHILE HOLDING THE EYELID(S) OPEN. TAKE CARE NOT TO RINSE CONTAMINATED WATER INTO UNAFFECTED EYE OR ONTO THE FACE. IF IRRITATION PERSISTS, REPEAT FLUSHING. OBTAIN MEDICAL ATTENTION

NO HEALTH EFFECTS EXPECTED. IF IRRITATION DOES OCCUR, FLUSH WITH LUKEWARM, GENTLY FLOWING WATER FOR 5 MINUTES OR UNTIL CHEMICAL IS SKIN CONTACT.....

REMOVED. IF IRRITATION PERSISTS, OBTAIN MEDICAL ADVICE. .

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

INHALATION.....

USE PROPER RESPIRATORY PROTECTION TO IMMEDIATELY MOVE EXPOSED INDIVIDUAL TO FRESH AIR. IF BREATHING IS DIFFICULT, OXYGEN MAY BE BENEFICIAL IF ADMINISTERED BY TRAINED PERSONNEL, PREFERABLY ON A DOCTOR'S ADVICE. IF BREATHING IS STOPPED, TRAINED PERSONNEL SHOULD BEGIN ARTIFICIAL RESPIRATION (AR) OR, IF THE HEART HAS STOPPED CARDIOPULMONARY RESUSCITATION (CPR) IMMEDIATELY. AVOID MOUTH TO MOUTH CONTACT BY USING MOUTH GUARDS OR SHIELDS. IMMEDIATELY TRANSPORT VICTIM TO AN EMERGENCY CARE FACILITY.

IF IRRITATION OR DISCOMFORT OCCUR, OBTAIN MEDICAL ADVICE IMMEDIATELY.

INGESTION..... MOST IMPORTANT SYMPTOMS AND ...... SEE SECTION 11.

EFFECTS, ACUTE OR DELAYED:

INDICATIÓN OF ANY IMMEDIATE MEDICAL N.AV.

ATTENTION AND SPECIAL TREATMENT

NEEDED

### **SECTION 05: FIRE FIGHTING MEASURES**

SUITABLE EXTINGUISHING MEDIA.....

WATER FOG, CARBON DIOXIDE, FOAM OR DRY CHEMICAL MAY BE USED TO

EXTINGUISH FIRE.

UNSUITABLE EXTINGUISHING MEDIA SPECIAL HAZARDS ARISING FROM THE

N AV

NOT FLAMMABLE. SEE HAZARDOUS COMBUSTION PRODUCTS.

**PRODUCT** HAZARDOUS COMBUSTION PRODUCTS. SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS:

OXIDES OF CARBON, OXIDES OF NITROGEN, HALOGENATED COMPOUNDS. WEAR NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS (SUCH AS "SCOTT AIR-PAK"), AND FULL PROTECTIVE GEAR. ISOLATE "FUEL" SUPPLY FROM FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED SURFACES AND TO PROTECT PERSONNEL.

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

PERSONAL PRECAUTIONS.....

AVOID CONTACT WITH SKIN, EYES OR CLOTHING. USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED. ENSURE ADEQUATE VENTILATION, ESPECIALLY IN CONFINED AREAS. AVOID BREATHING VAPORS, MIST OR GAS. WEAR APPROPRIATE PROTECTIVE EQUIPMENT.

ENVIRONMENTAL PRECAUTIONS..... METHODS AND MATERIALS FOR ..... CONTAINMENT AND CLEANING UP

DO NOT ALLOW TO ENTER DRAINS, SEWERS OR WATERCOURSES.

COLLECT INTO A SUITABLE CONTAINER FOR DISPOSAL. IF IRRITATING FUMES ARE PRESENT, CONSIDER EVACUATION OF AFFECTED AREAS. LARGER SPILLS MAY REQUIRE A VACUUM.

#### SECTION 07: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:.....

DO NOT HANDLE UNLESS THE SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD. AVOID SKIN AND EYE CONTACT. AVOID INHALATION OF DUST OR VAPOURS. DO NOT PUNCTURE, DRAG OR SLIDE CONTAINERS. DO NOT SMOKE IN ANY CHEMICAL HANDLING OR STORAGE AREA. WASH HANDS BEFORE EATING. STORE IN A DRY WELL-VENTILATED LOCATION. PROTECT FROM FREEZING. KEEP CONTAINERS TIGHTLY CLOSED. STORE AWAY FROM INCOMPATIBLE MALERIALS

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY IMCOMPATIBILITES:

AND IGNITION SOURCES.

## SECTION 08: EXPOSURE CONTROLS AND PERSONAL PROTECTION

INGREDIENTS TWA ACGIH TLV OSHA PEL NIOSH REL
--

1,2-ETHANEDIAMINE,N, N.AV.

N.AV.

N.AV.

N,N',

N',-TETRAMETHYL, POLYMER WITH

1,1'-OXYBIS

(2-CHLOROETHANE)

APPROPRIATE ENGINEERING CONTROLS GENERAL MECHANICAL VENTILATION SYSTEM IS ADEQUATE. HOWEVER. LOCAL

EXHAUST SYSTEM IS PREFERRED TO MAINTAIN AIRBORNE CONCENTRATIONS BELOW THE RECOMMENDED OCCUPATIONAL EXPOSURE LIMITS, WHENEVER MISTING CONDITIONS ARE PRESENT OR THE MATERIAL IS USED IN A CONFINED

N.AV.

SPACE.

N.AV.

INDIVIDUAL PROTECTION MEASURE SUCH AS PERSONAL PROTECTIVE

**EQUIPMENTS:** 

HAND PROTECTION...... GLOVES.

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### SECTION 08: EXPOSURE CONTROLS AND PERSONAL PROTECTION

IF MISTING CAN OCCUR, A NIOSH APPROVED FULL MASK RESPIRATOR FOR RESPIRATORY PROTECTION.....

ORGANIC VAPOR IS REQUIRED. THE LOCAL EHS (ENVIRONMENTAL HEALTH AND SAFETY) PROFESSIONAL MUST IDENTIFY AND EVALUATE THE RESPIRATORY HAZARDS IN THE WORKPLACE. BASED ON THIS EVALUATION, THE EHS

PROFESSIONAL MUST SELECT THE APPROPRIATE RESPIRATORY TYPE AND/OR

FILTER AS REQUIRED.

EYE PROTECTION....PROTECTIVE CLOTHING.... CHEMICAL SAFETY GOGGLES. SAFETY PROTECTIVE CLOTHING SUCH AS WORK COVERALLS OR LONG SLEEVE

SHIRT AND TROUSERS IS REQUIRED.

PROTECTIVE FOOTWEAR..... WEAR CHEMICAL RESISTANT FOOTWEAR.

AN EMERGENCY SHOWER COMPLETE WITH EYE-WASH FOUNTAIN IS STRONGLY OTHER.....

RECOMMENDED

USE GOOD PERSONAL HYGIENE PRACTICES. WASH HANDS BEFORE EATING, DRINKING, OR SMOKING, OR USING TOILET FACILITIES. PROMPTLY REMOVE

CONTAMINATED CLOTHING AND WASH THOROUGHLY BEFORE REUSE.

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

PHYSICAL STATE..... LIQUID.

HYGIENIC PRACTICES.....

CLEAR, AMBER TO DARK BROWN. COLOR.....

ODOUR..... MILD. ODOUR THRESHOLD...... N.AV. PH..... 7.0. FREEZING/MELTING POINT...... N.AV. BOILING POINT.....>100 C

FLASH POINT (C), METHOD..... >100C/212F TAG CLOSED CUP.

EVAPORATION RATE..... N.AV. FLAMMABILITY (SOLIDS AND GASES)..... N.AV. UPPER FLAMMABLE LIMIT (% BY VOL.)... N.AV. LOWER FLAMMABLE LIMIT (% BY VOL.)... N.AV. VAPOUR PRESSURE (MMHG)..... N.AP. 

SOLUBILITY IN WATER (% W/W)..... COMPLETELY 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**

CONTACT WITH INCOMPATIBLES. REACTIVITY:.

CHEMICAL STABILITY:.... STABLE UNDER NORMAL CONDITIONS OF HANDLING AND STORAGE.

POSSIBILITY OF HAZARDOUS ..... PRODUCT IS STABLE UNDER NORMAL CONDITIONS OF STORAGE AND HANDLING.

REACTIONS

**DECOMPOSITION** 

## SECTION 11: TOXICOLOGICAL INFORMATION

LC50 LD50 **INGREDIENTS** 

1,2-ETHANEDIAMINE,N,N,N', N',-TETRAMETHYL, POLYMER WITH N.AV. 1,1'-OXYBIS (2-CHLOROETHANE)

1850 MG/KG (ORAL, RAT)

INFORMATION ON LIKELY ROUTES OF **ENTRY** 

SKIN CONTACT...... MAY CAUSE A MILD IRRITATION. EFFECTS MAY VARY DEPENDING ON THE LENGTH OF EXPOSURE, SOLUTION CONCENTRATION, AND FIRST AID MEASURES.

SKIN ABSORPTION..... N.AV

EYE CONTACT..... IRRITANT. EFFECTS MAY VARY DEPENDING ON THE LENGTH OF EXPOSURE.

SOLUTION CONCENTRATION, AND FIRST AID MEASURES.

INHALATION..... HARMFUL IF INHALED.

INGESTION IS NOT EXPECTED TO BE A PRIMARY ROUTE OF EXPOSURE. MAY BE INGESTION.....

HARMFUL IF SWALLOWED.

EFFECTS OF ACUTE EXPOSURE..... SEE ABOVE

EFFECTS OF CHRONIC EXPOSURE...... THE EFFECTS FROM CHRONIC EXPOSURE TO THIS PRODUCT HAVE NOT BEEN FULLY EVALUATED.

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## **SECTION 11: TOXICOLOGICAL INFORMATION**

SIGNS AND SYMPTOMS OF

**OVEREXPOSURE** 

NOT LISTED IN ANY OF OSHA STANDARDS SECTION 1910.1200 SOURCES AS CARCINOGENICITY OF MATERIAL...... CARCINOGENIC.

TERATOGENICITY...... NONE KNOWN. MUTAGENICITY...... NONE KNOWN. REPRODUCTIVE EFFECTS...... NONE KNOWN. SENSITIZING CAPABILITY OF MATERIAL NOT A SENSITIZER.

SYNERGISTIC MATERIALS...... NONE KNOWN.

LD 50 OF MATERIAL, SPECIES & ROUTE. LC 50 OF MATERIAL, SPECIES & ROUTE. 1951 MG/KG (ORAL, RAT); > 2000 MG/KG (DERMAL, RABBIT).

2.9 MG/L 4H (ÌNH, RAT).

### **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**

\_\_\_\_\_ N.AP PROPER SHIPPING NAME...... N.AP

TDG CLASSIFICATION..... NOT REGULATED.

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