BEBBINGTON INDUSTRIES SAFETY DATA SHEET ETHYLENE GLYCOL STANDARD

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

SUPPLIER

BEBBINGTON INDUSTRIES

44 WRIGHT AVENUE

DARTMOUTH, NOVA SCOTIA, CANADA B3B 1G6

PRODUCT NAME

ETHYLENE GLYCOL STANDARD

CHEMICAL FORMULA

C2H6O2

CHEMICAL FAMILY

ORGANIC COMPOUND

MATERIAL USE

INDUSTRIAL USE

EMERGENCY NUMBER

CANUTEC 1 613 996 6666

SECTION 02: HAZARDS IDENTIFICATION





SIGNAL WORD. HAZARD CLASSIFICATION..... WARNING. ACUTE TOXICITY (ORAL) — CATEGORY 4. SPECIFIC TARGET ORGAN TOXICITY — REPEATED EXPOSURE — CATEGORY 2.
H302 HARMFUL IF SWALLOWED. H373 MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.

HAZARD STATEMENT.....

PRECAUTIONARY STATEMENT.....

P260 DO NOT BREATHE DUST/FUME/GAS/MIST/VAPOURS/SPRAY. P264 WASH... 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. P314 GET MEDICAL ADVICE/ATTENTION IF YOU FEEL UNWELL. P501 DISPOSE OF CONTENTS/CONTAINER ACCORDING TO ALL ADVICE/BYSICIAN ACCORDING TO ALL ADVIC

OTHER HAZARDS.....

CONTENTS/CONTAINER ACCORDING TO ALL APPLICABLE REGULATIONS. NO DATA AVAILABLE.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS							
HAZARDOUS INGREDIENTS	CAS#	WT. %					
			Service .				

ETHYLENE GLYCOL

107-21-1

<= 100

SECTION 04: FIRST AID MEASURES

GENERAL ADVICE:

CONSULT A PHYSICIAN. SHOW THIS SAFETY DATA SHEET TO THE DOCTOR IN ATTENDANCE. MOVE OUT OF DANGEROUS AREA.

IF BREATHED IN, MOVE PERSON INTO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. CONSULT A PHYSICIAN.

WASH OFF WITH SOAP AND PLENTY OF WATER. CONSULT A PHYSICIAN.

WASH EYES WITH COPIOUS AMOUNT OF WATER.

if INHALED:

IN CASE OF SKIN CONTACT: IN CASE OF EYE CONTACT:

IF SWALLOWED:....

NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. RINSE MOUTH WITH WATER. CONSULT A PHYSICIAN.

SECTION 05: FIRE FIGHTING MEASURES

FLAMMABILITY....

NOT FLAMMABLE OR COMBUSTIBLE

SUITABLE EXTINGUISHING MEDIA.....

USE WATER SPRAY, ALCOHOL RESISTANT FOAM, DRY CHEMICAL OR CARBON

HAZARDOUS COMBUSTION PRODUCTS

DIOXIDE CARBON OXIDES.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

MATERIAL WILL NOT BURN UNLESS PREHEATED. CARBON MONOXIDE MAY BE

SPECIAL PROCEDURES.....

EVOLVED IF INCOMPLETE COMBUSTION OCCURS.

EVACUATE HAZARD AREA. WEAR FULL PROTECTIVE EQUIPMENT INCLUDING A SELF-CONTAINED BREATHING APPARATUS.

PRODUCT: ETHYLENE GLYCOL STANDARD

SECTION 06: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:....

ENVIRONMENTAL PRECAUTIONS:

USE PERSONAL PROTECTIVE EQUIPMENT. AVOID BREATHING VAPOURS, MIST OR GAS. ENSURE ADEQUATE VENTILATION.
PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. DO NOT LET PRODUCT ENTER DRAINS. DISCHARGE INTO THE ENVIRONMENT MUST BE

AVOIDED.

METHODS AND MATERIALS FOR

CONTAINMENT AND CLEAN UP:

SOAK UP WITH INERT ABSORBENT MATERIAL AND DISPOSE OF AS HAZARDOUS

WASTE, KEEP IN SUITABLE, CLOSED CONTAINERS FOR DISPOSAL.

SECTION 07: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING.....

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES. AVOID CONTACT WITH EYES, SKIN AND CLOTHING, AVOID BREATHING MIST OR VAPOUR. USE ADEQUATE VENTILATION.

CONDITIONS FOR SAFE STORAGE.....

PROTECT CONTAINER FROM PHYSICAL DAMAGE. KEEP THE CONTAINER TIGHTLY CLOSED WHEN NOT IN USE, STORE IN A COOL AND WELL-VENTILATED

SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
			1			

ETHYLENE GLYCOL

100 ppm

ENGINEERING CONTROLS.....

GOOD VENTILATION SHOULD BE PROVIDED TO KEEP VAPOUR AND MIST

CONCENTRATIONS BELOW THE EXPOSURE LIMITS.

COMPLETE SUIT PROTECTING AGAINST CHEMICALS. THE TYPE OF PROTECTIVE EQUIPMENT MUST BE SELECTED ACCORDING TO THE CONCENTRATION AND AMOUNT OF THE DANGEROUS SUBSTANCE AT THE SPECIFIC WORKPLACE. USE NIOSH APPROVED SUPPLIED-AIR RESPIRATOR. SKIN AND BODY PROTECTION.....

RESPIRATORY PROTECTION.....

EYE/FACE PROTECTION.....

OTHER/TYPE.....

HYGIENIC MEASURES.....

USE NIOSH APPROVED SUPPLIED-AIR RESPIRATOR.
FACE SHIELD WITH SAFETY GLASSES.
USE GOOD PERSONAL HYGIENE PRACTICES. WASH HANDS BEFORE EATING,
DRINKING, SMOKING, OR USING TOILET FACILITIES. PROMPTLY REMOVE SOILED
CLOTHING AND WASH THOROUGHLY BEFORE REUSE. SHOWER AFTER WORK
USING PLENTY OF SOAP AND WATER.

EYE WASH STATION AND SAFETY SHOWER SHOULD BE LOCATED NEAR THE WORK STATION.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE..... SLIGHTLY VISCOUS LIQUID. ODOUR MILD. ODOUR THRESHOLD..... 25 ppm. NO DATA AVAILABLE. MELTING POINT/FREEZING POINT (C).... MELTING POINT/FREEZING POINT (C)...
BOILING POINT
FLASH POINT (C), METHOD...
EVAPORATION RATE...
FLAMMABILITY (SOLIDS AND GASES)...
UPPER FLAMMABLE LIMIT (% BY VOL.).
LOWER FLAMMABLE LIMIT (% BY VOL.). арргох. -13 С. 196-200 C. 116 C. NOT APPLICABLE. 28% (V). 3.2 % (V). VAPOUR PRESSURE..... <10.0 Pa. VAPOUR FRESSOR...
VAPOUR DENSITY (AIR=1)...
SPECIFIC GRAVITY (WATER=1)...
SOLUBILITY IN WATER (% W/W)...
AUTO IGNITION TEMPERATURE... 2.14. 1.11. COMPLETELY MISCIBLE. 398 (C). PARTITION COEFFICIENT: log Pow: -1.93. N-OCTANOL/WATER DECOMPOSITION TEMPERATURE..... NO DATA AVAILABLE.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY CHEMICAL STABILITY:.. POSSIBILITY OF HAZARDOUS

VISCOSITY.....

NO DATA AVAILABLE STABLE UNDER RECOMMENDED STORAGE CONDITIONS.

NO DATA AVAILABLE. REACTIONS

CONDITIONS TO AVOID:..... EXTREMES OF TEMPERATURE AND DIRECT SUNLIGHT. INCOMPATIBLE MATERIALS :.... STRONG OXIDIZING AGENTS. STRONG BASES, STRONG ACIDS.

16.1 mPa.s.

PRODUCT: ETHYLENE GLYCOL STANDARD

SECTION 10: STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION CARBON OXIDES. **PRODUCTS**

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS

LC50

LD50

ETHYLENE GLYCOL

4700 mg/kg

ACUTE TOXICITY:

ORAL LD50.... INHALATION LC50....

GERM CELL MUTAGENICITY.....

CARCINOGENICITY.....

REPRODUCTIVE TOXICITY.....

STOT- SINGLE EXPOSURE. STOT - REPEAT EXPOSURE.....

ASPIRATION HAZARD. POTENTIAL HEALTH EFFECTS.....

SIGNS AND SYMPTOMS OF EXPOSURE.

SEE ABOVE.

RABBIT- 10626 mg/kg (Ethylene Glycol), RABBIT- NO SKIN IRRITATION - 4H.

NO DATA AVAILABLE.

NO EVIDENCE FOUND OF MUTAGENICITY.

ACGIH: NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER
THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A CARCINOGEN OR POTENTIAL
CARCINOGEN BY ACGIH. IARC: NO COMPONENT OF THIS PRODUCT PRESENT
AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A CARCINOGEN

OR POTENTIAL CARCINOGEN BY IARC.

DOES NOT IMPAIR FERTILITY, NOT A DEVELOPMENTAL TOXICANT, OVER EXPOSURE MAY CAUSE REPRODUCTIVE DISORDERS BASED ON TESTS WITH LABORATORY ANIMALS. NO DATA AVAILABLE.

MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED **EXPOSURE**

NO DATA AVAILABLE INHALATION - MAY BE HARMFUL IF INHALED, MAY CAUSE RESPIRATORY TRACT IRRITATION, INGESTION - HARMFUL IF SWALLOWED, EYES - MAY CAUSE EYE IRRITATION, SKIN - MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN, MAY CAUSE SKIN IRRITATION

CAUSE SKIN IRRITATION.
WHEN INGESTED, EARLY SYMPTOMS MIMIC ALCOHOL INEBRIATION AND ARE FOLLOWED BY NAUSEA, VOMITING, ABDOMINAL PAIN, WEAKNESS, MUSCLE TENDERNESS, RESPIRATORY FAILURE, CONVULSIONS, CARDIOVASCULAR COLLAPSE, PULMONARY EDEMA, HYPOCALCEMIC TETANY AND SEVERE METABOLIC ACIDOSIS. WITHOUT TREATMENT, DEATH MAY OCCUR IN 8 TO 24 HOURS. VICTIMS WHO SURVIVE THE INITIAL TOXICITY PERIOD USUALLY DEVELOP RENAL FAILURE ALONG WITH BRAIN AND LIVER DAMAGE. EXPOSURE TO AND/OR CONSUMPTION OF ALCOHOL MAY INCREASE TOXIC EFFECTS.

TO AND/OR CONSUMPTION OF ALCOHOL MAY INCREASE TOXIC EFFECTS.

SECTION 12: ECOLOGICAL INFORMATION

PERSISTENCE AND DEGRADABILITY..... BIOACCUMULATIVE POTENTIAL.... TOXICITY.....

READILY BIODEGRADABLE DOES NOT BIOACCUMULATE

TOXICITY TO FISH- LC50- ONCORTHYNCHUS MYKISS (RAINBOW TROUT) - 18,500 mg/L - 96H. EC50 - DAPHNIA MAGNA (WATER FLEA) - 74,000 mg/L - 24H . DISSOLVES IN WATER.

MOBILITY IN SOIL ... OTHER ADVERSE EFFECTS..... NO DATA AVAILABLE.

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:....

OFFER SURPLUS AND NON-RECYCLABLE SOLUTIONS TO A LICENSED DISPOSAL COMPANY, DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER

PACKAGING:....

DISPOSE OF AS UNUSED PRODUCT.

SECTION 14: TRANSPORT INFORMATION

UN NUMBER. NOT APPLICABLE. TDG CLASSIFICATION..... NOT REGULATED. PACKING GROUP N.AP SPECIAL SHIPPING INSTRUCTIONS...... N.AP.

PRODUCT: ETHYLENE GLYCOL STANDARD

SECTION 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION.....

D2A, D2B.
THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE HPR AND THE SDS CONTAINS ALL THE INFORMATION REQUIRED BY THE HPR.

SECTION 16: OTHER INFORMATION

PREPARED BY BEBBINGTON INDUSTRIES
JULY 2023

DISCLAIMER:

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. BEBBINGTON INDUSTRIES SHALL NOT BE THELD LIABLE FOR ANY DAMAGE OR INJURY RESULTING FROM HANDLING OR, OR FROM CONTACT WITH THE ABOVE PRODUCT. ALL PERSONS USING THIS PRODUCT SHOULD BE WHMIS TRAINED.