

BEBBINGTON INDUSTRIES SAFETY DATA SHEET

ACETIC ACID 92%

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

SUPPLIER	BEBBINGTON INDUSTRIES 44 WRIGHT AVENUE DARTMOUTH, NOVA SCOTIA, CANADA B3B 1G6
PRODUCT NAME	ACETIC ACID 92%
CHEMICAL FORMULA	C2H4O2
CHEMICAL FAMILY	ORGANIC ACID
MATERIAL USE	REFER TO TECHNICAL LITERATURE
EMERGENCY NUMBER	CANUTEC 1 613 996 6666

SECTION 02: HAZARDS IDENTIFICATION



SIGNAL WORD.....	DANGER.
HAZARD CLASSIFICATION.....	FLAMMABLE LIQUIDS — CATEGORY 3. ACUTE TOXICITY, ORAL (CATEGORY 5). SKIN CORROSION — CATEGORY 1A. SERIOUS EYE DAMAGE — CATEGORY 1.
HAZARD STATEMENT.....	H226 FLAMMABLE LIQUID AND VAPOUR. H314 CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. H303 MAY BE HARMFUL IF SWALLOWED.
PRECAUTIONARY STATEMENT.....	P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION. P210 KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES AND OTHER IGNITION SOURCES – NO SMOKING... P260 DO NOT BREATHE DUST/FUME/GAS/MIST/VAPOURS/SPRAY. P243 TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGE. P241 USE EXPLOSION-PROOF ELECTRICAL/VENTILATING/LIGHTING/.../ EQUIPMENT. P264 WASH... THOROUGHLY AFTER HANDLING. P270 DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. P242 USE ONLY NON-SPARKING TOOLS. P310 IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN. P305+P351+P338 IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. P304+P340 IF INHALED: REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING. P303+P361+P353 IF ON SKIN (OR HAIR): REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER. P301+P330+P331 IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE VOMITING. P370+P378 IN CASE OF FIRE: USE DRY SAND, DRY CHEMICAL OR ALCOHOL RESISTANT FOAM FOR EXTINCTION. P403+P235 STORE IN A WELL-VENTILATED PLACE. KEEP COOL. P233 KEEP CONTAINER TIGHTLY CLOSED. P405 STORE LOCKED UP. DISPOSAL: DISPOSE OF CONTENTS/CONTAINERS IN ACCORDANCE WITH FEDERAL, PROVINCIAL REGULATIONS.
OTHER HAZARDS.....	NO DATA AVAILABLE.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
ACETIC ACID	64-19-7	92

SECTION 04: FIRST AID MEASURES

GENERAL ADVICE:.....	MOVE OUT OF DANGEROUS AREA. CONSULT A PHYSICIAN. SHOW THE SAFETY DATA SHEET TO THE DOCTOR IN ATTENDANCE.
IF INHALED:.....	IF BREATHED IN, MOVE PERSON INTO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION AND GET MEDICAL ATTENTION.
IN CASE OF SKIN CONTACT:.....	TAKE OFF CONTAMINATED CLOTHING AND SHOES IMMEDIATELY. WASH OFF WITH SOAP AND PLENTY OF WATER FOR AT LEAST 20 MINUTES. CONSULT A PHYSICIAN.

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SECTION 04: FIRST AID MEASURES

IN CASE OF EYE CONTACT:..... IRRIGATE EYES FOR AT LEAST 15 MINUTES WITH COPIOUS AMOUNTS OF WATER, KEEPING EYELIDS APART AND AWAY FROM EYEBALLS DURING IRRIGATION. REMOVE CONTACT LENSES IF PRESENT AND EASY TO DO. CONTINUE FLUSHING. GET MEDICAL ATTENTION.

IF SWALLOWED:..... DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. RINSE MOUTH WITH WATER. CONSULT A PHYSICIAN. DO NOT LEAVE VICTIM UNATTENDED.

SECTION 05: FIRE FIGHTING MEASURES

FLAMMABILITY..... REFER TO FLASH POINT.

SUITABLE EXTINGUISHING MEDIA..... SUITABLE FOR SURROUNDING FIRE. USE WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE, OR APPROPRIATE FOAM.

HAZARDOUS COMBUSTION PRODUCTS..... OXIDES OF CARBON.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL..... NO DATA AVAILABLE.

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

SECTION 06: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:..... WEAR RESPIRATORY PROTECTION. AVOID BREATHING VAPOURS, MIST OR GAS. ENSURE ADEQUATE VENTILATION. EVACUATE PERSONNEL TO SAFE AREA.

ENVIRONMENTAL PRECAUTIONS:..... DO NOT ALLOW PRODUCT TO ENTER DRAINS.

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. ALWAYS ADD ACID TO WATER. WEAR PROTECTIVE EQUIPMENT DURING HANDLING. USE ADEQUATE VENTILATION. FOLLOW LABEL WARNINGS EVEN AFTER CONTAINER IS EMPTIED.

CONDITIONS FOR SAFE STORAGE..... PROTECT CONTAINER FROM PHYSICAL DAMAGE. KEEP THE CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. STORE AWAY FROM INCOMPATIBLE MATERIALS. STORE IN A COOL AND WELL-VENTILATED AREA. KEEP AWAY FROM FLAMES AND SPARKS. STORE AWAY FROM STRONG OXIDIZERS.

SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
EXPOSURE LIMITS.....	ACETIC ACID: ACGIH TWA: 10 PPM; ACHIG STEL 15 PPM, OSHA PEL 10 PPM, 25 MG/M3 OSHA TWA 10 PPM, 25 MG/M3.					
ENGINEERING CONTROLS.....	USE GOOD VENTILATION. LOCAL EXHAUST SUGGESTED FOR ENCLOSED SPACES. AVOID ALL SOURCES OF IGNITION: HEAT, SPARKS, OPEN FLAME.					
RESPIRATORY PROTECTION.....	USE NIOSH APPROVED SUPPLIED-AIR RESPIRATOR.					
SKIN AND BODY PROTECTION.....	ACID-PROOF GAUNTLET GLOVES SUCH AS: PVC, NEOPRENE OR NITRILE. 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.					
EYE/FACE PROTECTION.....	SPLASH PROOF CHEMICAL GOGGLES. FACE SHIELD.					
OTHER/TYPE.....	EYE WASH STATION AND SAFETY SHOWER SHOULD BE LOCATED NEAR THE WORK STATION.					
NOTE.....	IN CASE OF EMERGENCY OR WHERE THERE IS A STRONG POSSIBILITY OF CONSIDERABLE EXPOSURE, WEAR A COMPLETE ACID SUIT WITH HOOD, BOOTS, AND GLOVES. IF ACID VAPOUR OR MIST ARE PRESENT AND EXPOSURE LIMITS MAY BE EXCEEDED, WEAR APPROPRIATE NIOSH RESPIRATORY PROTECTION.					

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE..... CLEAR COLOURLESS LIQUID. COLOURLESS LIQUID TO SLIGHT YELLOW.

ODOUR..... VINEGAR.

ODOUR THRESHOLD..... >0.21 PPM.

PH..... ACIDIC. (2.4 @60 G/L WATER).

MELTING POINT/FREEZING POINT (C)..... 16.2. 61.2 F.

BOILING POINT..... 117 - 119 (C).

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SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

FLASH POINT (C), METHOD..... 39. (TCC).
 EVAPORATION RATE..... NO DATA AVAILABLE.
 FLAMMABILITY (SOLIDS AND GASES)..... NOT APPLICABLE.
 UPPER FLAMMABLE LIMIT (% BY VOL.)... N.AV.
 LOWER FLAMMABLE LIMIT (% BY VOL.)... N.AV.
 VAPOUR PRESSURE..... 11.4.
 VAPOUR DENSITY (AIR=1)..... 2.1.
 SPECIFIC GRAVITY (WATER=1)..... 1.045.
 SOLUBILITY IN WATER (% W/W)..... COMPLETELY MISCIBLE.
 AUTO IGNITION TEMPERATURE..... 516 (C).
 PARTITION COEFFICIENT:..... NO DATA AVAILABLE.
 N-OCTANOL/WATER.....
 DECOMPOSITION TEMPERATURE..... NOT AVAILABLE.
 VISCOSITY..... NO DATA AVAILABLE.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:..... AVOID INCOMPATIBLES.
 CHEMICAL STABILITY:..... STABLE UNDER RECOMMENDED STORAGE CONDITIONS.
 POSSIBILITY OF HAZARDOUS REACTIONS..... NO DATA AVAILABLE.
 CONDITIONS TO AVOID:..... AVOID ALL SOURCES OF IGNITION; HEAT, SPARKS, OPEN FLAME.
 INCOMPATIBLE MATERIALS..... OXIDIZING AGENTS, BASES.
 HAZARDOUS DECOMPOSITION PRODUCTS..... CARBON OXIDES.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
ACUTE TOXICITY:		
ORAL LD50.....		ACETIC ACID: ORAL LD50 (RAT) 3310 MG/KG; LD50 (MOUSE) 4960 MG/KG.
INHALATION LC50.....	>5620 PPM/1H RAT.	
DERMAL LD50.....	LD50 (RABBIT) 1060 MG/KG.	
SKIN CORROSION / IRRITATION.....	CONTACT MAY CAUSE BURNS AND PERMANENT INJURY.	
SERIOUS EYE DAMAGE / EYE IRRITATION.....	CAUSES SERIOUS EYE DAMAGE.	
RESPIRATORY OR SKIN SENSITIZATION.....	NO EVIDENCE WAS FOUND OF RESPIRATORY OR SKIN SENSITIZATION.	
GERM CELL MUTAGENICITY.....	NO EVIDENCE WAS FOUND OF MUTAGENICITY.	
CARCINOGENICITY.....	THIS PRODUCT DOES NOT CONTAIN ANY INGREDIENT DESIGNATED BY IARC, NTP, ACGIH OR OSHA AS PROBABLE OR SUSPECTED HUMAN CARCINOGENS.	
REPRODUCTIVE TOXICITY.....	NO EVIDENCE FOUND OF REPRODUCTIVE TOXICITY.	
STOT- SINGLE EXPOSURE.....	NO DATA AVAILABLE.	
STOT - REPEAT EXPOSURE.....	NO DATA AVAILABLE.	
ASPIRATION HAZARD.....	NO DATA AVAILABLE.	
POTENTIAL HEALTH EFFECTS.....	INHALATION - MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. INGESTION - HARMFUL IF SWALLOWED. EYES - CAUSES SEVERE EYE BURNS. MAY CAUSE EYE IRRITATION. SKIN - MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CAUSES SKIN IRRITATION.	
SIGNS AND SYMPTOMS OF EXPOSURE..	MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. MAY BE HARMFUL IF SWALLOWED. MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION. CAUSES SEVERE EYE BURNS. MAY CAUSE IRRITATION.	

SECTION 12: ECOLOGICAL INFORMATION

PERSISTENCE AND DEGRADABILITY..... READILY BIODEGRADABLE.
 BIOACCUMULATIVE POTENTIAL..... SIGNIFICANT ACCUMULATION IN ORGANISMS IS NOT TO BE EXPECTED.
 TOXICITY..... LC50 (96H) 320 MG/L, BRACHYDANIO RERIO (IUCLD OECD).
 MOBILITY IN SOIL..... NO DATA AVAILABLE.
 OTHER ADVERSE EFFECTS..... BIOCHEMICAL OXYGEN DEMAND (BOD) INCUBATION PERIOD 5 D: 0.45 MG O2/MG.

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:..... IN ACCORDANCE WITH MUNICIPAL, PROVINCIAL AND FEDERAL REGULATIONS.
 PRODUCT:..... AVOID RELEASE TO THE ENVIRONMENT.

PRODUCT: ACETIC ACID 92%**SECTION 14: TRANSPORT INFORMATION**

UN NUMBER..... 2789.
TDG CLASSIFICATION..... 8 (3).
PACKING GROUP..... II.
PROPER SHIPPING NAME..... ACETIC ACID GLACIAL.
SPECIAL SHIPPING INSTRUCTIONS..... REFER TO TRANSPORTATION OF DANGEROUS GOOD REGULATIONS.

SECTION 15: REGULATORY INFORMATION

WI IMIS CLASSIFICATION..... B3, E.
HPR COMPLIANCE..... 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

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