

BEBBINGTON INDUSTRIES SAFETY DATA SHEET

METHYL ETHYL KETONE

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

SUPPLIER	BEBBINGTON INDUSTRIES 44 WRIGHT AVENUE DARTMOUTH, NOVA SCOTIA, CANADA B3B 1G6
PRODUCT NAME	METHYL ETHYL KETONE
CHEMICAL FORMULA	C4H8O
CHEMICAL FAMILY	KETONES
MATERIAL USE	SOLVENT
EMERGENCY NUMBER	CANUTEC 1 613 996 6666

SECTION 02: HAZARDS IDENTIFICATION



SIGNAL WORD.....	DANGER.
HAZARD CLASSIFICATION.....	FLAMMABLE LIQUIDS — CATEGORY 2. EYE IRRITATION — CATEGORY 2A. SPECIFIC TARGET ORGAN TOXICITY — SINGLE EXPOSURE — CATEGORY 3.
HAZARD STATEMENT.....	H225 HIGHLY FLAMMABLE LIQUID AND VAPOUR. H319 CAUSES SERIOUS EYE IRRITATION. H336 MAY CAUSE DROWSINESS OR DIZZINESS.
PRECAUTIONARY STATEMENT.....	P210 KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES AND OTHER IGNITION SOURCES - NO SMOKING... P235 KEEP COOL. P240 GROUND/BOND CONTAINER AND RECEIVING EQUIPMENT. P241 USE EXPLOSION-PROOF ELECTRICAL/VENTILATING/LIGHTING... / EQUIPMENT. P242 USE ONLY NON-SPARKING TOOLS. P243 TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGE. P261 AVOID BREATHING DUST/FUME/GAS/MIST/VAPOURS/SPRAY. P264 WASH... THOROUGHLY AFTER HANDLING. P271 USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA. P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION. P303+P361+P353 IF ON SKIN (OR HAIR): REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER. P304+P340 IF INHALED: REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING. P305+P351+P338 IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. P312 CALL A POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL. P337+P313 IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/ATTENTION. P370+P378 IN CASE OF FIRE: USE DRY SAND, DRY CHEMICAL OR ALCOHOL RESISTANT FOAM FOR EXTINCTION. P403+P233 STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED. P405 STORE LOCKED UP. P501 DISPOSE OF CONTENTS/CONTAINER ACCORDING TO ALL APPLICABLE REGULATIONS. VAPOURS CAN ACCUMULATE IN LOW AREAS.
OTHER HAZARDS.....	

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
METHYL ETHYL KETONE (MEK)	78-93-3	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 INHALED.....	IF BREATHED IN, MOVE PERSON INTO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. CONSULT A PHYSICIAN.
IN CASE OF SKIN CONTACT.....	WASH OFF WITH SOAP AND PLENTY OF WATER. CONSULT A PHYSICIAN.

PRODUCT: METHYL ETHYL KETONE**SECTION 04: FIRST AID MEASURES**

IN CASE OF EYE CONTACT:..... IRRIGATE EYES FOR AT LEAST 15 MINUTES WITH COPIOUS OF WATER, KEEPING EYELIDS APART AND AWAY FROM EYEBALLS DURING IRRIGATION
 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..... FLAMMABLE IN THE PRESENCE OF A SOURCE OF IGNITION WHEN THE TEMPERATURE IS ABOVE THE FLASH POINT. KEEP AWAY FROM HEAT/SPARK/OPEN FLAME/HOT SURFACE. NO SMOKING.
 SUITABLE EXTINGUISHING MEDIA..... SUITABLE FOR SURROUNDING FIRE. CARBON DIOXIDE, DRY CHEMICAL, ALCOHOL FOAM, WATER FOG.
 HAZARDOUS COMBUSTION PRODUCTS..... CARBON OXIDES.
 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL..... FLASH BACK POSSIBLE OVER CONSIDERABLE DISTANCE. CONTAINER EXPLOSION MAY OCCUR UNDER FIRE CONDITIONS.
 SPECIAL PROCEDURES..... EVACUATE HAZARD AREA. WEAR FULL PROTECTIVE EQUIPMENT INCLUDING A SELF-CONTAINED BREATHING APPARATUS.

SECTION 06: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:..... USE PERSONAL PROTECTIVE EQUIPMENT. AVOID BREATHING VAPORS, MIST OR GAS. ENSURE ADEQUATE VENTILATION. REMOVE ALL SOURCES OF IGNITION. EVACUATE PERSONNEL TO SAFE AREAS. BEWARE OF VAPOURS ACCUMULATING TO FORM EXPLOSIVE CONCENTRATIONS. VAPOURS CAN ACCUMULATE IN LOW AREAS.
 ENVIRONMENTAL PRECAUTIONS:..... 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:..... CONTAIN SPILLAGE AND THEN COLLECT WITH ELECTRICALLY PROTECTED VACUUM CLEANER OR BY WET-BRUSHING AND PLACE IN CONTAINER FOR DISPOSAL ACCORDING TO LOCAL REGULATIONS.

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 EXPLOSION PROOF EQUIPMENT. USE ADEQUATE VENTILATION. KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME. TAKE MEASURES TO PREVENT THE BUILD UP OF ELECTROSTATIC CHARGE.
 CONDITIONS FOR SAFE STORAGE..... KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAMES. 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.

SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
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METHYL ETHYL KETONE (MEK)	200 ppm	300 ppm				
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ENGINEERING CONTROLS..... GOOD VENTILATION SHOULD BE PROVIDED TO KEEP VAPOUR AND MIST CONCENTRATIONS BELOW THE EXPOSURE LIMITS.
 SKIN AND BODY PROTECTION..... IMPERVIOUS CLOTHING. FLAME RETARDANT ANTISTATIC PROTECTIVE CLOTHING. THE TYPE OF EQUIPMENT MUST BE SELECTED ACCORDING TO THE CONCENTRATION AND AMOUNT OF THE DANGEROUS SUBSTANCE AT THE SPECIFIC WORKPLACE. FLAME RETARDANT ANTISTATIC PROTECTIVE CLOTHING.
 RESPIRATORY PROTECTION..... USE NIOSH APPROVED SUPPLIED-AIR RESPIRATOR.
 EYE/FACE PROTECTION..... SPLASH PROOF CHEMICAL GOGGLES. FACE SHIELD.
 HYGIENIC MEASURES..... 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.
 OTHER/TYPE..... EYE WASH STATION AND SAFETY SHOWER SHOULD BE LOCATED NEAR THE WORK STATION.

PRODUCT: METHYL ETHYL KETONE

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE.....	LIQUID.
ODOUR.....	CHARACTERISTIC.
ODOUR THRESHOLD.....	NO DATA AVAILABLE.
PH.....	NOT APPLICABLE.
MELTING POINT/FREEZING POINT (C).....	-87 C (MEK).
BOILING POINT.....	80C/176F.
FLASH POINT (C), METHOD.....	-9.
EVAPORATION RATE.....	3.3 METHOD: DIN 53170, DI-ETHYL ETHER=1
FLAMMABILITY (SOLIDS AND GASES).....	NOT APPLICABLE.
UPPER FLAMMABLE LIMIT (% BY VOL.).....	11.5 %(V).
LOWER FLAMMABLE LIMIT (% BY VOL.).....	1.8 %(V).
VAPOUR PRESSURE.....	12.6 Pa.
VAPOUR DENSITY (AIR=1).....	2.4.
SPECIFIC GRAVITY (WATER=1).....	0.805.
SOLUBILITY IN WATER (% W/W).....	MISCIBLE IN WATER.
AUTO IGNITION TEMPERATURE.....	515 C.
PARTITION COEFFICIENT.....	Log Pow: 0.3.
N-OCTANOL/WATER.....	
DECOMPOSITION TEMPERATURE.....	NO DATA AVAILABLE.
VISCOSITY.....	NO DATA AVAILBLE.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY.....	NO DATA AVAILABLE.
CHEMICAL STABILITY.....	STABLE UNDER RECOMMENDED STORAGE CONDITIONS.
POSSIBILITY OF HAZARDOUS REACTIONS.....	VAPOURS MAY FORM EXPLOSIVE MIXTURE WITH AIR.
CONDITIONS TO AVOID.....	AVOID OPEN FLAMES AND SPARKS. EXPOSURE TO MOISTURE.
INCOMPATIBLE MATERIALS.....	STRONG OXIDIZING AGENTS. REDUCING AGENTS.
HAZARDOUS DECOMPOSITION PRODUCTS.....	CARBON OXIDES.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
METHYL ETHYL KETONE (MEK)	INHALATION MOUSE - 32000 /G/M3 -4H	ORAL RAT - 2737 MG/KG
ACUTE TOXICITY:		
ORAL LD50.....	SEE ABOVE.	
INHALATION LC50.....	SEE ABOVE.	
DERMAL LD50.....	RABBIT - 6480 mg/kg (MEK).	
SKIN CORROSION / IRRITATION.....	RABBIT - NO SKIN IRRITATION - 4H.	
SERIOUS EYE DAMAGE / EYE IRRITATION.....	CAUSES SERIOUS EYE IRRITATION.	
RESPIRATORY OR SKIN SENSITIZATION.....	NO EVIDENCE WAS FOUND OF RESPIRATORY OR SKIN SENSITIZATION.	
GERM CELL MUTAGENICITY.....	NO EVIDENCE FOUND OF MUTAGENICITY.	
CARCINOGENICITY.....	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. 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.	
REPRODUCTIVE TOXICITY.....	NO EVIDENCE FOUND OF REPRODUCTIVE TOXICITY.	
STOT - SINGLE EXPOSURE.....	MAY CAUSE DROWSINESS OR DIZZINESS.	
STOT - REPEAT EXPOSURE.....	REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING.	
ASPIRATION HAZARD.....	MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.	
POTENTIAL HEALTH EFFECTS.....	INHALATION - MAY BE HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS. INGESTION - MAY BE HARMFUL IF SWALLOWED. EYES- CAUSES EYE IRRITATION. SKIN - MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN. MAY CAUSE SKIN IRRITATION.	
SIGNS AND SYMPTOMS OF EXPOSURE..	CENTRAL NERVOUS SYSTEM DEPRESSION, GASTROINTESTINAL DISTURBANCE, NARCOSIS.	

SECTION 12: ECOLOGICAL INFORMATION

PERSISTENCE AND DEGRADABILITY.....	READILY BIODEGRADABLE. OXIDIZES RAPIDLY BY PHOTO-CHEMICAL REACTIONS IN AIR.
BIOACCUMULATIVE POTENTIAL.....	NO BIOACCUMULATION IS TO BE EXPECTED.
TOXICITY.....	EC50 - DAPHNIA MAGNA (WATER FLEA) - >7060 mg/L - 48H (MEK). TOXICITY TO FISH: LC50- PRIMPHALES PROMELAS (FATHEAD MINNOW) - 3130 - 3320 MG/L - 96H

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SECTION 12: ECOLOGICAL INFORMATION

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

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:..... BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AFTERBURNER AND SCRUBBER BUT EXERT EXTRA CARE IN IGNITING AS THIS MATERIAL IS HIGHLY FLAMMABLE. OFFER SURPLUS AND NON-RECYCLABLE SOLUTIONS TO A LICENCED DISPOSAL COMPANY.
PACKAGING:..... DISPOSE OF AS UNUSED PRODUCT.

SECTION 14: TRANSPORT INFORMATION

UN NUMBER..... 1193.
TDG CLASSIFICATION..... 3.
PACKING GROUP..... II.
PROPER SHIPPING NAME..... METHYL ETHYL KETONE
SPECIAL SHIPPING INSTRUCTIONS..... REFER TO TRANSPORTATION OF DANGEROUS GOOD REGULATIONS.

SECTION 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION..... B2, D2B.
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
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DISCLAIMER:

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