

BEBBINGTON INDUSTRIES SAFETY DATA SHEET

HEXANE

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

SUPPLIER	BEBBINGTON INDUSTRIES 44 WRIGHT AVENUE DARTMOUTH, NOVA SCOTIA, CANADA B3B 1G6
PRODUCT NAME	HEXANE
CHEMICAL FORMULA	$C_nH_{2n=2}$ AND C_nH_{2n} STRUCTURES
CHEMICAL FAMILY	HYDROCARBON MIXTURE
MATERIAL USE	SOLVENT
EMERGENCY NUMBER	CANUTEC 1 613 996 6666

SECTION 02: HAZARDS IDENTIFICATION



SIGNAL WORD.....	DANGER.
HAZARD CLASSIFICATION.....	FLAMMABLE LIQUIDS — CATEGORY 2. SKIN IRRITATION — CATEGORY 2. EYE IRRITATION — CATEGORY 2B. REPRODUCTIVE TOXICITY — CATEGORY 2. SPECIFIC TARGET ORGAN TOXICITY — SINGLE EXPOSURE — CATEGORY 3. SPECIFIC TARGET ORGAN TOXICITY — REPEATED EXPOSURE — CATEGORY 2. ASPIRATION HAZARD — CATEGORY 1.
HAZARD STATEMENT.....	H225 HIGHLY FLAMMABLE LIQUID AND VAPOUR. H304 MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. H315+H320 CAUSES SKIN AND EYE IRRITATION. H336 MAY CAUSE DROWSINESS OR DIZZINESS. H361 SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD. H373 MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.
PRECAUTIONARY STATEMENT.....	P210 KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES AND OTHER IGNITION SOURCES – NO SMOKING... P233 KEEP CONTAINER TIGHTLY CLOSED. 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. P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION. P301+P310 IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN. P303+P361+P353 IF ON SKIN (OR HAIR): REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER. P305+P351+P338 IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. P331 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. P405 STORE LOCKED UP. P501 DISPOSE OF CONTENTS/CONTAINER ACCORDING TO ALL APPLICABLE REGULATIONS.
OTHER HAZARDS.....	VAPOURS CAN ACCUMULATE IN LOW AREAS. TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT	64742-49-0	100
n-HEXANE	110-54-3	20-45

PRODUCT: HEXANE**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.

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..... HIGHLY FLAMMABLE VAPOURS WHICH ARE HEAVIER THAN AIR MAY ACCUMULATE IN LOW AREAS AND/OR SPREAD ALONG GROUND AWAY FROM HANDLING SITE. VAPORS MAY FORM EXPLOSIVE MIXTURES WITH AIR.

SPECIAL PROCEDURES..... EVACUATE HAZARD AREA. WEAR FULL PROTECTIVE EQUIPMENT INCLUDING A SELF-CONTAINED BREATHING APPARATUS. USE WATER TO COOL CONTAINERS.

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..... AVOID CONTACT WITH EYES, SKIN AND CLOTHING. VAPOURS MAY ACCUMULATE AND TRAVEL TO DISTANT IGNITION SOURCES AND FLASHBACK. AVOID BREATHING MIST OR VAPOUR. WEAR PROTECTIVE EQUIPMENT DURING HANDLING. 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
-------------	-----	-------------------	-----	------------------	-----	-------

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT		500 ppm				
n-HEXANE	50 ppm					

ENGINEERING CONTROLS..... GOOD VENTILATION SHOULD BE PROVIDED TO KEEP VAPOUR AND MIST CONCENTRATIONS BELOW THE EXPOSURE LIMITS.

SKIN AND BODY PROTECTION..... 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. FLAME RETARDANT ANTISTATIC PROTECTIVE CLOTHING.

RESPIRATORY PROTECTION..... USE NIOSH APPROVED SUPPLIED-AIR RESPIRATOR.

PRODUCT: HEXANE

SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

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.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE.....	COLOURLESS LIQUID.
ODOUR.....	NO DATA AVAILABLE.
ODOUR THRESHOLD.....	NO DATA AVAILABLE.
PH.....	NO DATA AVAILABLE.
MELTING POINT/FREEZING POINT (C).....	BELOW THE LOWER LIMIT OF -20 C.
BOILING POINT.....	55-85 deg C.
FLASH POINT (C), METHOD.....	-20 C.
EVAPORATION RATE.....	NO DATA AVAILABLE.
FLAMMABILITY (SOLIDS AND GASES).....	NO DATA AVAILABLE.
UPPER FLAMMABLE LIMIT (% BY VOL.)...	8.3 %.
LOWER FLAMMABLE LIMIT (% BY VOL.)...	1.2 %.
VAPOUR PRESSURE.....	19 - 50 kPa at 25 deg C.
VAPOUR DENSITY (AIR=1).....	NO DATA AVAILABLE.
SPECIFIC GRAVITY (WATER=1).....	0.65 - 0.70.
SOLUBILITY IN WATER (% W/W).....	NEGLIGIBLE.
AUTO IGNITION TEMPERATURE.....	>200 C.
PARTITION COEFFICIENT:.....	3.6 FOR ISOHEXANE AND 4 FOR N-HEXANE.
N-OCTANOL/WATER	
DECOMPOSITION TEMPERATURE.....	NO DATA AVAILABLE.
VISCOSITY.....	0.4-0.7 MM2/S (20 C).

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:.....	HEAT, SPARKS AND OPEN FLAME. EXPOSURE TO MOISTURE.
INCOMPATIBLE MATERIALS.....	STRONG OXIDIZING AGENTS.
HAZARDOUS DECOMPOSITION PRODUCTS.....	CARBON OXIDES. ALDEHYDES.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT		INHALATION-RAT- >20 mg/L - 4H ORAL-RAT- >5000 mg/kg
n-HEXANE		INHALATION-RAT- 4h - 48000 ppm ORAL-RAT- 25,000 mg/kg
ACUTE TOXICITY:		
ORAL LD50.....	SEE ABOVE.	
INHALATION LC50.....	SEE ABOVE.	
DERMAL LD50.....	DERMAL-RABBIT- 3.35 g/kg.	
SKIN CORROSION / IRRITATION.....	IRRITATING TO SKIN.	
SERIOUS EYE DAMAGE / EYE IRRITATION.....	MILD EYE IRRITATION.	
RESPIRATORY OR SKIN SENSITIZATION.....	NOT SENSITIZING.	
GERM CELL MUTAGENICITY.....	NO EVIDENCE FOUND OF MUTAGENICITY.	
CARCINOGENICITY.....	NOT CLASSIFIED FOR CARCINOGENICITY.	
REPRODUCTIVE TOXICITY.....	OVER EXPOSURE MAY CAUSE REPRODUCTIVE DISORDERS BASED ON TESTS WITH LABORATORY ANIMALS.	
STOT- SINGLE EXPOSURE.....	MAY CAUSE DROWSINESS OR DIZZINESS.	
STOT - REPEAT EXPOSURE.....	MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.	
ASPIRATION HAZARD.....	MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.	
POTENTIAL HEALTH EFFECTS.....	INHALATION - MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS. INGESTION - MAY BE HARMFUL IF SWALLOWED. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. EYES - MAY CAUSE EYE IRRITATION. SKIN - MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN. MAY CAUSE SKIN IRRITATION.	

PRODUCT: HEXANE

SECTION 11: TOXICOLOGICAL INFORMATION

SIGNS AND SYMPTOMS OF EXPOSURE: PROLONGED OR REPEATED CONTACT WITH SKIN MAY CAUSE, DEFATTING, DERMATITIS. CONTACT WITH EYES CAN CAUSE, REDNESS, BLURRED VISION, PROVOKE TEARS. EFFECTS DUE TO INGESTION MAY INCLUDE, GASTROINTESTINAL DISCOMFORT, CENTRAL NERVOUS SYSTEM DEPRESSION, LUNG IRRITATION, CHEST PAIN, PULMONARY EDEMA, GIDDINESS, SLOWED REACTION TIME., SLURRED SPEECH, HEADACHE, DIZZINESS, DROWSINESS, UNCONSCIOUSNESS.

SECTION 12: ECOLOGICAL INFORMATION

PERSISTENCE AND DEGRADABILITY..... READILY BIODEGRADABLE.
 BIOACCUMULATIVE POTENTIAL..... DOES NOT GREATLY BIOACCUMULATE IN LIPIDS OF ECOLOGICAL RECEPTOR.
 TOXICITY..... TOXICITY TO FISH: LC50- PRIMPHALES (FATHEAD MINNOW) - 2.5 mg/L - 96H (N-HEXANE). EC50 - DAPHNIA MAGNA (WATER FLEA) - 3878 mg/L - 48H - (n-HEXANE).
 MOBILITY IN SOIL..... NO DATA AVAILABLE.
 OTHER ADVERSE EFFECTS..... VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

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:..... EMPTY CONTAINERS MAY CONTAIN RESIDUE AND CAN BE DANGEROUS. DO NOT ATTEMPT TO REFILL OR CLEAN CONTAINERS WITHOUT PROPER INSTRUCTIONS.

SECTION 14: TRANSPORT INFORMATION

UN NUMBER..... 1208.
 TDG CLASSIFICATION..... 3.
 PACKING GROUP..... II.
 PROPER SHIPPING NAME..... HEXANES.
 SPECIAL SHIPPING INSTRUCTIONS..... REFER TO TRANSPORTATION OF DANGEROUS GOOD REGULATIONS.

SECTION 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION..... B2, D2A, 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

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 HELD 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.