

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Hexane

HE100-00

SECTION 01: PRODUCT INFORMATION AND COMPANY INFORMATION

MANUFACTURER: Same as above
PREPARED BY: Production Department
VERSION DATE: 01-Aug-16
TELEPHONE NO.: (519) 451-1614
EMERGENCY PHONE NO.: (613) 996-6666
CHEMICAL FAMILY: Not Available **CHEMICAL FORMULA:** Not Applicable
MOLECULAR WEIGHT: Not Applicable **MATERIAL USE:** Please Refer to technical literature
SYNONYMS:

SECTION 02: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	Conc. Approx. %	C.A.S. #	LD/50 (RTE/SPEC)	LC/50 (RTE/SPEC)	TLV
N-hexane	40-70	110-54-3	28710 mg/kg	48000 mg/kg	N.Av.
Methylcyclopentane	5-10	96-37-7	N.Av.	N.Av.	N.Av.
3-Methylpentane	15-40	96-14-0	N.Av.	N.Av.	N.Av.
2- methyl pentane	5-10	107-83-5	N.Av.	N.Av.	N.Av.

SECTION 03: HAZARD IDENTIFICATION

ROUTE OF ENTRY

Eyes: Causes eye irritation.

Skin: Causes mild skin irritation. Can dry skin.

Inhalation: In high concentrations, vapor may cause irritation of the nose and Throat, dizziness, and headache. Peripheral neurotoxicity has been reported in connection with over exposure to n-hexane. Prolonged exposure over a period of weeks or months to levels well above the TLV may cause neurotoxic disease, with symptoms including weakness and lack of sensation in fingers, hands, arms, feet and legs. Methyl ethyl ketone has been reported to potentiate the Neurotoxic effects caused by either n-hexane or methyl-n-butyl Ketone. Methyl ethyl ketone by itself does not cause a peripheral neuropathy. MEK may also potentiate the liver and kidney toxicity of haloalkane solvents.

Ingestion: May cause irritation of the mouth, throat and stomach. Ingestion of This product would cause headache, dizziness, fatigue and central nervous system depression.

SECTION 04: FIRSAID

Skin Contact: Flush skin with large amounts of water. If irritation persists, get medical attention

Eye Contact: Flush eyes with water for at least 15 minutes while holding eyelids open. If irritation persists or signs of toxicity occur, seek medical attention.

Inhalation, Acute: Remove from source of exposure. If inhaled, remove to fresh air. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation (CPR) immediately. Get medical attention immediately.

Ingestion: Do not induce vomiting. Get medical attention! If vomiting occurs, keep head lower than hips to prevent aspiration.

Notes to physician: Any material aspirated during vomiting may cause lung injury. Therefore, emesis should not be induced mechanically or pharmacologically. If it is considered necessary to evacuate the stomach contents, this should be done by means least likely to cause aspiration (e.g., gastric lavage after endotracheal intubation).

SECTION 05: FIRE EXPLOSION HAZARD AND FIRE FIGHTING MEASURES

FLAMMABLE?	Yes
IF YES, UNDER WHICH CONDITIONS?	
FLASH POINT (TCC) (C):	-31 °C
FLAMMABLE LIMITS:	LEL(% BY VOL.): 1.2 UEL(% BY VOL.): 7.4
AUTO IGNITION TEMPERATURE (C)	23 °C
EXTINGUISHING MEDIA	Use DRY chemicals, CO2, alcohol foam or water spray.
SPECIAL PROCEDURES:	Fire fighters should wear full protective clothing, including self-contained breathing equipment
HAZARDOUS COMBUSTION PRODUCTS:	Not Available
UNUSUAL FIRE AND EXPLOSION HAZARDS	Not Available
SENSITIVITY TO STATIC DISCHARGE	Not Available
SENSITIVITY TO MECHANICAL IMPACT:	Not Available

SECTION 06: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedure: Personal Precautionary Measures: Wear appropriate protective equipment.
Environmental Precautionary Measures: Prevent entry into sewers or streams, dike if needed.
Procedure for Clean Up: Ventilate area. Blanket spill with foam as a precaution against accidental ignition. Take extreme care to avoid sparks - do not operate electrical appliances near spill, unless explosion proof. Collect liquid with explosion proof pumps. Absorb residue or small spills with absorbent material and remove to non-leaking containers for disposal.

SECTION 07: HANDLING AND STORAGE

Handling Procedures and Storage Requirements

Handling: Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Do not cut, drill, grind, weld or perform similar operations on or near containers. Keep away from sources of ignition. Use explosion proof electrical equipment.

Storage: Store in a cool, dry, well ventilated area, away from heat and ignition sources.

SECTION 08: PERSONAL PROTECTIVE EQUIPMENT / EXPOSURE CONTROLS

GLOVES/TYPE:	Viton gloves. Nitrile gloves.
RESPIRATOR/TYPE:	If exposure exceeds occupational exposure limits, use an appropriate NIOSH-approved respirator.
EYE/TYPE:	Safety glasses with side shields or chemical goggles.
OTHER/TYPE:	Ensure that eyewash stations and safety showers are proximal to the work-station location.
ENGINEERING CONTROL	Local exhaust ventilation designed for explosive atmospheres.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE/APPEARANCE:	Liquid	ODOUR THRESHOLD:	N. Av.
ODOUR:	Gasoline	VAPOUR DENSITY (Air=1):	3
VAPOUR PRESSURE (mm Hg @ 20C):	124 mm Hg	SPECIFIC GRAVITY:	0.673
EVAPORATION RATE (Ether = 1):	N. Av.	FREEZING POINT (C)	-95 °C
BOILING POINT (C):	56-70°C	% VOLATILE (WT):	N. Av.
Ph (% SOLUTION):	N. Av.		
SOLUBILITY IN WATER (% W/W)	N. Av.		

SECTION 10: STABILITY AND REACTIVITY

CHEMICALLY STABLE? Stable

IF NO, UNDER WHICH CONDITIONS?

INCOMPATIBILITY WITH OTHER SUBSTANCES Yes

IF YES, WITH WHICH ONES: Strong oxidizing agents.

SPECIAL REACTIVITY AND UNDER WHAT CONDITIONS

HAZARDOUS DECOMPOSITION PRODUCTS: Not available.

SECTION 11: TOXICOLOGICAL INFORMATION

EXPOSURE LIMIT OF MATERIAL

LC 50 OF MATERIAL, SPECIES AND ROUTE See Sec 2

LD 50 OF MATERIAL, SPECIES AND ROUTE

CARCINOGENICITY OF MATERIAL

REPRODUCTIVE EFFECTS:

IRRITANCY OF MATERIAL

SENSITIZING CAPABILITY OF MATERIAL

SYNERGISTIC MATERIALS

SECTION 12: ECOLOGICAL INFORMATION

AQUATIC TOXICITY Do not allow product or runoff from fire control to enter storm or sanitary sewers, lakes, rivers, streams or public waterways. Block off drains and ditches. Spill areas must be cleaned and restored to original condition or to the satisfaction of authorities. May be harmful to aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Disposal of Waste Method: Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.
Contaminated Packaging: Empty containers should be recycled or disposed of through an approved waste management facility.

SECTION 14: TRANSPORT INFORMATION

TDG CLASSIFICATION Class 3, Hexane

UN NUMBER: 1208

PACKING GROUP: II

Special Provisions for Transport

SECTION 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION B2, D2B
B2 FLAMMABLE LIQUIDS
D2B TOXIC MATERIALS

SECTION 16: OTHER INFORMATION

ABBREVIATIONS USED: N.Av. = Not Available
N.App. / N.Ap. = Not Applicable

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SOURCES: Supplier MSDS

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