



Comet Chemical Company Ltd.
3463 Thomas Street Innisfil ,ON L9S 3W4
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Material Safety Data Sheet

HEXANE

Revision Date: 2008/08/15

Section 1 : PRODUCT AND COMPANY IDENTIFICATION

Chemical family: Not available.

Product uses: Solvent.
Oil extraction from oilseeds.

Product name: Hexane

Supplier: Comet Chemical Ltd.
3463 Thomas Street
Innisfil, On.
L9S 3W4.

Supplier 24 hour phone number: (705)436-5580 – weekdays from 8:00-5:00.
(800)567-7455 all other times (Newalta Services).

Section 2 : INGREDIENT INFORMATION

C.A.S.	CONCENTRATION %	Ingrédient	V.L.E.	DL/50	CL/50
110-54-3	100	N-HEXANE	50 PPM (SKIN)	25,000 MG/KG RAT ORAL	48,000 PPM/4H RAT INHALATION 627,000 MG/M3/3M RAT INHALATION 150,000 MG/M3/2H MOUSE INHALATION

Section 2A: ADDITIONAL INGREDIENT INFORMATION

Note: (supplier).
CAS# 64742-49-0: TLV 400 ppm.

*: Commercial hexane is a mixture of hexane isomers, including methylcyclopentane.

Section 3 : HAZARD IDENTIFICATION

Route of entry: Eye contact, skin contact, skin absorption, inhalation and ingestion.

Effects of acute exposure

Eye contact: Irritant.
Corneal injury is unlikely.

Skin contact: Drying and defatting of skin.

Skin absorption: Not considered toxic by skin absorption.

Inhalation: May cause dizziness.
Irritant.
May cause intoxication.

- Ingestion:** Effects may be similar to inhalation.
- Effects of chronic exposure:** Prolonged or repeated overexposure may cause drying and cracking of the skin (dermatitis).
- Sensitization to product:** No
- Carcinogenic effects:** Experimental animals only.
The relationship to humans has not been fully established.
- Reproductive effects:** None known.
- Teratogenicity:** None known.
- Mutagenicity:** Experimental mutagen.
- Synergistic materials:** None known.

Section 4 : FIRST AID MEASURES

- Skin contact:** Remove contaminated clothing.
Wash thoroughly with soap and water.
Seek medical attention if irritation persists.
- Eye contact:** Flush eyes with clear, running water for 15 minutes while holding eyelids open. If irritation persists, consult a physician.
- Inhalation:** Remove victim to fresh air. If not breathing, qualified personnel should administer artificial respiration. Get medical attention.
- Ingestion:** Obtain immediate medical attention.
Do not induce vomiting, keep person warm, quiet.
Guard against aspiration of liquids into lungs.
If vomiting occurs, keep head below hips.
Never give anything by mouth to an unconscious person.
Immediately drink plenty of water.

Section 5 : FIRE FIGHTING MEASURES

- Flammability:** Flammable.
- Conditions of flammability:** Vapours may travel to a source of ignition and flash back.
Heat, sparks and open flames.
- Extinguishing media:** Dry chemical.
Foam
Water fog.
Do not use direct water jet.
- Special procedures:** Firefighters should wear adequate protective gear.
Self-contained breathing apparatus required.
Use water spray to cool fire exposed containers.
This material may produce a floating fire hazard.
- Auto-ignition temperature (°C):** 230°C
- Flash point (°C), method:** -31°C
- Lower flammability limit (% vol):** 1.2% @ 20°C
- Upper flammability limit (% vol):** 7.4% @ 20°C

Explosion Data

- Sensitivity to static discharge:** Take precautionary measures against static discharge.
- Sensitivity to mechanical impact:** Not sensitive.
- Hazardous combustion products:** Carbon monoxide (CO).
Oxides of nitrogen (NO_x).
Smoke
Partially oxidized hydrocarbons.
- Rate of burning:** Not available.
- Explosive power:** Not available.

Section 6 : ACCIDENTAL RELEASE MEASURES

- Leak/Spill:** Eliminate all sources of ignition.
Dike area to prevent spreading.
Prevent entry into drains, sewers, and other waterways.
Ventilate area.
Wear appropriate protective equipment.
Ground handling equipment.
Use non-sparking tools.
Explosion proof motors are recommended.
Recover free liquid.
Pump to containers or soak up on inert absorbent.
Place in a closed container for disposal.
Do not flush to sewer.
Blanket spill with foam to protect against accidental ignition.
Do not operate electrical appliances near spill.

Section 7 : HANDLING AND STORAGE

- Handling procedures and equipment:** Keep away from heat, sparks, and open flame.
Avoid breathing vapors/mists.
Use adequate ventilation.
Wear personal protective equipment appropriate to task.
Wash thoroughly after handling.
Use proper grounding procedures.
Avoid contact with skin, eyes and clothing.
Do not cut, grind, weld or drill on or near containers.
Launder contaminated clothing prior to reuse.
- Storage requirements:** Store away from all sources of ignition.
Store away from incompatible materials.
Store in a cool, dry and well ventilated area.

Section 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary Measures

- Gloves/Type:** Nitrile gloves.
Viton gloves.
- Respiratory/Type:** None required under normal use.
NIOSH approved respirator with organic vapor cartridge is required if ventilation is inadequate or exposure limits are exceeded.

Eye/Type: 

Safety glasses with side-shields.



Or goggles.

Footwear/Type: Nitrile boots.

Clothing/Type: Long sleeve shirt, long trousers.



Impervious apron.

Other/Type: Eye wash facility should be in close proximity.
Emergency shower should be in close proximity.

Ventilation requirements: Ventilate adequately.
As needed to stay below TLV.

Exposure limit of material: 400 ppm.

Section 9 : PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid.

Appearance & odor: Colourless.
Clear
Gasoline-like odor.

Odor threshold (ppm): 60

Vapour pressure (mmHg): 124mmHg/16.5kPa @ 20°C.

Vapour density (air=1): 3

Volatiles (%)

By volume: Not available.

**Evaporation rate
(butyl acetate = 1):** Not available.

Boiling point (°C): 56°C–70°C

Freezing point (°C): <–95°C

pH: Not available.

Specific gravity @ 20 °C: 0.673

Solubility in water (%): 10 mg/l.

Coefficient of water\oil dist.: Not available.

VOC: Not available.

Section 10 : STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions.

Conditions of instability: Contact with incompatible substances.

Hazardous polymerization: Will not occur.

Incompatible substances: Strong oxidizing agents.

Hazardous decomposition products: See hazardous combustion products.

Section 11 : TOXICOLOGICAL INFORMATION

LD50 of product, species & route: (estimated).
28,700 mg/kg rat oral.

LC50 of product, species & route: Estimated.
48,000 ppm mouse.

Section 12 : ECOLOGICAL INFORMATION

Environmental toxicity: No data at this time.

Environmental fate: No data at this time.

Section 13 : DISPOSAL CONSIDERATIONS

Waste disposal: In accordance with municipal, provincial and federal regulations.
May be incinerated.

Section 14 : TRANSPORT INFORMATION

TDG classification: HEXANES
UN1208
Class 3
PG II.



Special shipping information: See transportation information.

Section 15 : REGULATORY INFORMATION

WHMIS classification:

B2, D2B.



DSL status: Appears on DSL.

Section 16 : OTHER INFORMATION

Supplier MSDS date: 2008/08/15

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