

Hexane

SDS Preparation Date (mm/dd/yyyy): 11/07/2016

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## SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

#### Product identifier used on the label

: Hexane

Product Code(s) : None assigned.

#### Recommended use of the chemical and restrictions on use

: Industrial solvent.

Use pattern: Professional use only

Recommended restrictions None known.

Chemical family : Pure substance

Name, address, and telephone number  
of the supplier:

Comet Chemical Company Ltd.

3463 Thomas Street  
Innisfil, ON, Canada  
L9S 3W4

Supplier's Telephone # : 705-436-5580

24 Hr. Emergency Tel # : TERRRAPURE ENVIRONMENTAL : 800-567-7455

Name, address, and telephone number of  
the manufacturer:

Refer to supplier

### SECTION 2. HAZARDS IDENTIFICATION

#### Classification of the chemical

Clear, colorless liquid. Hydrocarbon odour.

Most important hazards: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

#### Hazard classification:

Flammable Liquids - Category 2

Skin Irritation - Category 2

Specific Target Organ Toxicity, Single Exposure - Category 1

Specific Target Organ Toxicity, Single Exposure - Category 3 narcotic effects

Specific target organ toxicity, single exposure - Category 3 respiratory tract irritation

Aspiration Toxicity - Category 1

#### Label elements

#### Hazard pictogram(s)



Signal Word

DANGER!



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### *Hazard statement(s)*

Highly flammable liquid and vapour.  
Causes skin irritation.  
May cause respiratory irritation.  
May cause drowsiness or dizziness.  
May cause damage to organs.  
May be fatal if swallowed and enters airways.

### *Precautionary statement(s)*

Keep away from heat, open flames and hot surfaces. - No smoking.

Keep container tightly closed.

Ground/Bond container and receiving equipment.

Use explosion-proof electrical and ventilating equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Do not breathe mist or vapor.

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Wear protective gloves and eye/face protection.

IF exposed: Call a POISON CENTRE or doctor/physician.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse.

If skin irritation occurs, get medical advice/attention.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

In case of fire: Use water fog, dry chemical, CO2 or 'alcohol' foam to extinguish.

Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

Keep cool.

Dispose of contents/container in accordance with local regulation.

### Other hazards

Other hazards which do not result in classification:

Burning produces obnoxious and toxic fumes.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.  
May cause eye irritation.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance

Chemical name	Common name and synonyms	CAS #	Concentration (% by weight)
n-Hexane	Hexane	110-54-3	100.00

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### SECTION 4. FIRST-AID MEASURES

#### Description of first aid measures

*Ingestion* : Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.

*Inhalation* : If inhaled: Remove person to fresh air and keep comfortable for breathing. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a POISON CENTRE or doctor/physician if you feel unwell.

*Skin contact* : Immediately flush with plenty of water, while removing contaminated clothing. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse.

*Eye contact* : For eye contact, flush with running water for at least 15 minutes. If eye irritation persists: get medical advice/attention.

#### Most important symptoms and effects, both acute and delayed

: Causes skin irritation. Redness, swelling, itching and dryness. May cause respiratory irritation. May cause coughing and breathing difficulties. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal. May cause headache, nausea, dizziness and other symptoms of central nervous system depression. May cause eye irritation. Symptoms may include stinging and tearing. Causes damage to organs. (Peripheral nervous system )

#### Indication of any immediate medical attention and special treatment needed

: Treat symptomatically. Aspiration hazard.. This product is a CNS depressant.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

##### *Suitable extinguishing media*

: Carbon dioxide (CO2); Dry chemical; Alcohol resistant foam; Water fog

##### *Unsuitable extinguishing media*

: Do not use a solid water stream as it may scatter and spread fire.

#### Special hazards arising from the substance or mixture / Conditions of flammability

: Highly flammable liquid and vapour. Vapours may ignite explosively. Vapours are heavier than air and may spread along floors. Static discharge, impact, friction, and heat may ignite exposed chemical material.  
Empty containers may contain hazardous residues.

#### Flammability classification (OSHA 29 CFR 1910.106)

: Flammable Liquids - Category 2

#### Hazardous combustion products

: Carbon dioxide, carbon monoxide and other unidentified organic compounds.

#### Special protective equipment and precautions for firefighters

##### *Protective equipment for fire-fighters*

: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

##### *Special fire-fighting procedures*

: Do not breathe fumes or vapours. Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.



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### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

- : All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

**Environmental precautions** : Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

#### Methods and material for containment and cleaning up

- : Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools and equipment in the clean-up process. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Contact the proper local authorities. Refer to Section 13 for disposal of contaminated material.

#### Special spill response procedures

- : In case of transportation accident, contact TERRAPURE ENVIRONMENTAL at 1-800-567-7455.

EPA/CERCLA Reportable quantity (RQ):  
n-Hexane (5000 lbs / 2270 kg)

### SECTION 7. HANDLING AND STORAGE

#### Precautions for safe handling

- : Wear protective gloves and eye/face protection. Use only in well-ventilated areas. Do not breathe mist or vapor. Avoid contact with skin, eyes and clothing. Keep container tightly closed. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Keep away from flames and hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharges. Ground all equipment during handling.

**Conditions for safe storage** : Keep container tightly closed. Store in cool/well-ventilated place. Store locked up. Keep cool. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking. Empty containers may contain hazardous residues.

**Incompatible materials** : Acids, oxidizing agents, halogens and halogenated compounds. Metal salts.

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Exposure Limits:</u>					
<u>Chemical Name</u>		<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
		<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
n-Hexane		50 ppm (skin)	N/Av	500 ppm (1800 mg/m <sup>3</sup> )	N/Av

#### Exposure controls

#### Ventilation and engineering measures

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- Respiratory protection** : Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Use explosion-proof equipment. In case of insufficient ventilation wear suitable respiratory equipment.
- Skin protection** : Wear protective gloves. Advice should be sought from glove suppliers.
- Eye / face protection** : Wear eye/face protection. Wear as appropriate: Tightly fitting safety goggles
- Other protective equipment** : Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.
- General hygiene considerations**
  - Do not breathe mist or vapor. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not take contaminated clothing home. Handle in accordance with good industrial hygiene and safety practice.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : Clear colourless liquid.

**Odour** : Hydrocarbon odour.

**Odour threshold** : 60 ppm

**pH** : No information available.

**Melting/Freezing point** : <-95°C

**Initial boiling point and boiling range** : 56-70°C

**Flash point** : -31°C

**Flashpoint (Method)** : Cleveland closed cup

**Evaporation rate (BuAe = 1)** : Not available.

**Flammability (solid, gas)** : Not applicable.

**Lower flammable limit (% by vol.)** : 1.2%

**Upper flammable limit (% by vol.)** : 7.4%

**Oxidizing properties** : None known.

**Explosive properties** : Not explosive

**Vapour pressure** : 124 mm Hg

**Vapour density** : (Air = 1) 3

**Relative density / Specific gravity** : 0.673

**Solubility in water** : Insoluble. (10 mg/L)

**Other solubility(ies)** : Soluble in most organic solvents.

**Partition coefficient: n-octanol/water or Coefficient of water/oil distribution** : 3.9

**Auto-ignition temperature** : 230 °C

**Decomposition temperature** : No information available.

**Viscosity** : 0.44-0.45 @ 25°C

**Volatiles (% by weight)** : No information available.

**Volatile organic Compounds (VOC's)** : No information available.

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### Absolute pressure of container

: Not applicable.

**Flame projection length** : Not applicable.

### Other physical/chemical comments

: None known or reported by the manufacturer.

## SECTION 10. STABILITY AND REACTIVITY

**Reactivity** : Not normally reactive.

**Chemical stability** : Stable under normal conditions.

### Possibility of hazardous reactions

: Hazardous polymerization does not occur.

**Conditions to avoid** : Open flames, sparks, high heat, direct sunlight, and close proximity to incompatible substances. Do not use in areas without adequate ventilation.

**Incompatible materials** : Incompatible materials (see Section 7).

**Hazardous decomposition products** : None known, refer to hazardous combustion products in Section 5.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure:

**Routes of entry inhalation** : YES

**Routes of entry skin & eye** : YES

**Routes of entry Ingestion** : YES

**Routes of exposure skin absorption**

: YES

### Potential Health Effects:

#### Signs and symptoms of short-term (acute) exposure

##### *Sign and symptoms Inhalation*

: May cause respiratory tract irritation. Coughing, difficulty breathing, and tightness in chest. May cause headache, nausea, dizziness and other symptoms of central nervous system depression.

##### *Sign and symptoms ingestion*

: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

##### *Sign and symptoms skin*

: Causes skin irritation. Symptoms may include redness, edema, drying defatting and cracking of the skin.

##### *Sign and symptoms eyes*

: Direct eye contact may cause slight or mild, transient irritation.

### Potential Chronic Health Effects

: Prolonged exposure can cause central nervous system effects.

### **Mutagenicity**

: Not expected to be mutagenic in humans.

### **Carcinogenicity**

: No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

### **Reproductive effects & Teratogenicity**

: Not expected to cause reproductive effects.

### **Sensitization to material**

: Not expected to be a skin or respiratory sensitizer.

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**Specific target organ effects** : This material is classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012). Classification:

Specific Target Organ Toxicity, Single Exposure - Category 1.

Specific Target Organ Toxicity, Single Exposure - Category 3 narcotic effects.

Specific Target Organ Toxicity, Single Exposure -Category 3 (respiratory)

Causes damage to organs.(Peripheral nervous system)

May cause drowsiness or dizziness. .

May cause respiratory irritation.

**Medical conditions aggravated by overexposure**

: Pre-existing skin, eye, respiratory and central nervous system disorders.

**Synergistic materials**

: No information available.

**Toxicological data**

: See below for toxicological data on the substance.

<u>Chemical name</u>	<u>LC<sub>50</sub>(4hr)</u>	<u>LD<sub>50</sub></u>	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
n-Hexane	38 500 ppm (135.7 mg/L) (vapour)	28 670 mg/kg	> 3350 mg/kg (No mortality)

## Other important toxicological hazards

: None reported by the manufacturer.

## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

: Toxic to aquatic life with long lasting effects. Do not allow material to contaminate ground water system.

See the following tables for the substance's ecotoxicity data.

**Ecotoxicity data:**

<u>Ingredients</u>	<u>CAS No</u>	<b>Toxicity to Fish</b>		
		<b>LC50 / 96h</b>	<b>NOEC / 21 day</b>	<b>M Factor</b>
n-Hexane	110-54-3	2.5 mg/L (Fathead minnow)	2.8 mg/L/28-day (Rainbow trout)	None.

<u>Ingredients</u>	<u>CAS No</u>	<b>Toxicity to Daphnia</b>		
		<b>EC50 / 48h</b>	<b>NOEC / 21 day</b>	<b>M Factor</b>
n-Hexane	110-54-3	3.9 mg/L (Daphnia magna)	4.9 mg/L (QSAR)	None.

<u>Ingredients</u>	<u>CAS No</u>	<b>Toxicity to Algae</b>		
		<b>EC50 / 96h or 72h</b>	<b>NOEC / 96h or 72h</b>	<b>M Factor</b>
n-Hexane	110-54-3	0.89 mg/L/96hr (Green algae)	N/Av	1

**Persistence and degradability**

: Readily biodegradable

**Bioaccumulation potential**

: No information available.

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Components	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
n-Hexane (CAS 110-54-3)	3.9	200

**Mobility in soil** : The product itself has not been tested.

**Other Adverse Environmental effects**

: None known.

## SECTION 13. DISPOSAL CONSIDERATIONS

<b>Handling for Disposal</b>	: Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8.
<b>Methods of Disposal</b>	: Dispose in accordance with all applicable federal, state, provincial and local regulations.
<b>RCRA</b>	: If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

## SECTION 14. TRANSPORTATION INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	UN1208	HEXANES	3	II	
49CFR/DOT Additional information	May be shipped as LIMITED QUANTITY when transported in quantities no larger than 1 Litre, in packages not exceeding 30 kg gross mass.				
TDG	UN1208	HEXANES	3	II	 
TDG Additional information	May be shipped as LIMITED QUANTITY when transported in quantities no larger than 1 Litre, in packages not exceeding 30 kg gross mass.				
IMDG	UN1208	HEXANES	3	II	 
IMDG Additional information	Consult the IMDG regulations for exceptions.				
ICAO/IATA	UN1208	Hexanes	3	II	 
ICAO/IATA Additional information	Refer to ICAO/IATA Packing Instruction				

**Special precautions for user** : Keep away from heat, sparks and open flame. - No smoking.

**Environmental hazards** : This product meets the criteria for an environmentally hazardous material according to the IMDG Code. Toxic to aquatic life with long lasting effects. See ECOLOGICAL INFORMATION, Section 12.

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: This information is not available.

## SECTION 15 - REGULATORY INFORMATION

## US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
n-Hexane	110-54-3	Yes	5000 lb/ 2270 kg	None.	Yes	1%

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Fire Hazard; Immediate (Acute) health hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

## US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
n-Hexane	110-54-3	No	N/Ap	No	Yes	Yes	Yes	Yes	Yes

## Canadian Information:

Canadian Environmental Protection Act (CEPA): All ingredients are present on the DSL.

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

## International Information:

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	CAS #	European EINECS	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECL/KECL	China IECSC	New Zealand IOC
n-Hexane	110-54-3	203-777-6	Present	Present	(2)-6	KE-18626	Present	HSR001166

## SECTION 16. OTHER INFORMATION

## Legend

- : ACGIH: American Conference of Governmental Industrial Hygienists
- AICS: Australian Inventory of Chemical Substances
- ATE: Acute Toxicity Estimate
- CA: California
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- CSA: Canadian Standards Association

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DOT: Department of Transportation  
ECHA: European Chemicals Agency  
ECOTOX: U.S. EPA Ecotoxicology Database  
EINECS: European Inventory of Existing Commercial chemical Substances  
ENCS: Existing and New Chemical Substances  
EPA: Environmental Protection Agency  
HSDB: Hazardous Substances Data Bank  
IARC: International Agency for Research on Cancer  
IBC: Intermediate Bulk Container  
IECSC: Inventory of Existing Chemical Substances  
IMDG: International Maritime Dangerous Goods  
IOC: Inventory of Chemicals  
IUCLID: International Uniform Chemical Information Database  
KECI: Korean Existing Chemicals Inventory  
KECL: Korean Existing Chemicals List  
LC: Lethal Concentration  
LD: Lethal Dose  
MA: Massachusetts  
MN: Minnesota  
N/Ap: Not Applicable  
N/Av: Not Available  
NIOSH: National Institute of Occupational Safety and Health  
NJ: New Jersey  
NOEC: No observable effect concentration  
NTP: National Toxicology Program  
OECD: Organisation for Economic Co-operation and Development  
OSHA: Occupational Safety and Health Administration  
PA: Pennsylvania  
PEL: Permissible exposure limit  
PICCS: Philippine Inventory of Chemicals and Chemical Substances  
RCRA: Resource Conservation and Recovery Act  
RI: Rhode Island  
RTECS: Registry of Toxic Effects of Chemical Substances  
SARA: Superfund Amendments and Reauthorization Act  
SDS: Safety Data Sheet / Material Safety Data Sheet  
STEL: Short Term Exposure Limit  
TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
TLV: Threshold Limit Values  
TSCA: Toxic Substance Control Act  
TWA: Time Weighted Average  
WHMIS: Workplace Hazardous Materials Identification System

### References

- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2016
- 2. International Agency for Research on Cancer Monographs, searched 2016
- 3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2016(Chempendium, HSDB and RTECs).
- 4. Material Safety Data Sheets from manufacturer.
- 5. US EPA Title III List of Lists - 2016 version.
- 6. California Proposition 65 List - 2016 version.
- 7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2016.

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Other special considerations for handling

: Provide adequate information, instruction and training for operators.



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