


# Material Safety Data Sheet

Section 1. Chemical Product and Company Identification		
<b>Product Name:</b>	<b>Hexane</b>	<b>Version: 5</b> <b>Effective Date: June 25, 2014</b>
<b>Supplier / Manufacturer:</b>	Chemfax Products Ltd. 11444 – 42 Street SE Calgary, AB T2C 5C4 Tel: 403-287-2055	
<b>Material Uses</b>	Industrial solvent	
<b>24 Hour Emergency</b>	Canutec (613) 996-6666	
<b>WHMIS</b>		
		
This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR		
<b>HMIS Ratings</b> for this product are: <b>Health 2 , Flammability 3 , Reactivity 0</b>		

Section 2. Composition and Information on Ingredients		
<b>Name</b>	<b>CAS#</b>	<b>% by weight</b>
N – Hexane	Various	40 - 70
See Section 8 for information on permissible exposure limits and threshold limit values		

Section 3. Hazards Identification	
<b>Physical State and Appearance</b>	Clear, colourless liquid, with strong solvent / hydrocarbon odour
<b>Hazard Summary</b>	Toxic, irritant
<b>Routes of Exposure</b>	Skin – contact, absorption, eyes, inhalation and ingestion
<b>Potential Acute Health Effects</b>	<p><b>Skin:</b> Irritant. Will cause irritation and redness, leading to dermatitis. Can be absorbed through the skin</p> <p><b>Eyes:</b> Irritant. Liquid and vapours can cause severe irritation of the eyes</p>

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	<p><b>Inhalation:</b> Extremely hazardous. Prolonged exposure can lead to headaches, nausea, vomiting, dizziness, central nervous system effects and convulsions</p> <p><b>Ingestion:</b> Extremely hazardous. May cause headache, nausea, vomiting and unconsciousness. Can also cause liver and kidney damage. Repeated exposure can lead to deterioration of health due to accumulation in one or more organs. Use of alcoholic beverages enhances toxic effects. Severe over exposure can result in death</p>
<b>Medical Conditions Aggravated by Exposure</b>	Peripheral neurotoxicity has been reported in connection with over exposure to N-Hexane
See Toxicological Information – Section 11	
<b>Additional Hazard Identification Remarks</b>	None

<b>Section 4. First Aid Measures</b>	
<b>Eye Contact</b>	Flush eyes with water for 15 minutes. Seek medical attention.
<b>Skin Contact</b>	Flush area with water. If irritation persists seek medical attention. Launder clothing before reuse.
<b>Inhalation</b>	Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention.
<b>Ingestion</b>	Give two glasses of water. Do not induce vomiting. Lay victim on left side to prevent aspiration of any vomit. Seek immediate medical attention.
<b>Notes to Physician</b>	No additional remarks
<b>Additional First Aid Remarks</b>	None

<b>Section 5. Fire Fighting Measures</b>	
<b>Flammability of the Product</b>	Flammable
<b>Flash Point</b>	-18 to - 27 °C
<b>Explosive Limits</b>	LEL: 1.2 %      UEL: 7.4%
<b>Auto Ignition Temperature</b>	225 °C
<b>Static Discharge</b>	Yes
<b>Suitable Extinguishing Media</b>	CO <sub>2</sub> , dry chemical, water spray, foam
<b>Hazardous Combustion Products</b>	Oxides of carbon

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<b>Precautions for Fire Fighting</b>	Fire fighters should wear self contained breathing apparatus and full protective clothing. Use water spray to cool containers and structures exposed to fire.
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<b>Section 6. Accidental Release Measures</b>	
<b>Personal Precautions</b>	Gloves (nitrile), safety glasses, coveralls, air purifying respirator (with organic vapour cartridges) or air supply pack dependant on the volume spilt
<b>Environmental Precautions</b>	Do not allow to enter any surface water courses or drains and sewers. Product may collect in low places. Remove all sources of ignition and naked flames.
<b>Methods for Clean Up</b>	With all sources of ignition removed and wearing correct protective apparel, close area and remove all personnel not required for clean up. Pump up large volumes of product, or soak up smaller amounts with an absorbent. Place collected material in a suitable container for disposal. Wash area down with soap and water to remove residues.

<b>Section 7. Handling and Storage</b>	
<b>Handling</b>	Handle with care. Flammable liquid.
<b>Storage</b>	Store in a cool dry place away from any sources of ignition

<b>Section 8. Exposure Controls and Personal Protection</b>				
<b>Exposure Guidelines</b>	<b>TWA: 8 Hr</b>	<b>STEL: 15 min</b>	<b>Ceiling</b>	<b>IDLH *</b>
<b>N- Hexane</b>	50 ppm (NIOSH)			1100ppm
	* Immediately Dangerous to Life and Health			
<b>Exposure Controls</b>	Local exhaust ventilation			
<b>Personal Protection</b>				
<b>Respiratory</b>	Air purifying respirators fitted with the organic vapour cartridges must worn if exposure limits are being exceeded			
<b>Skin</b>	Gloves (nitrile), coverall, chemical resistant footwear			
<b>Eyes</b>	Safety glasses			
<b>Other</b>	None			

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Section 9. Physical and Chemical Properties	
<b>Physical State and Appearance</b>	Clear, colourless liquid, with strong solvent / hydrocarbon odour
<b>Odour Threshold</b>	No data
<b>pH</b>	Not applicable
<b>Boiling Point</b>	66 – 69 °C
<b>Melting Point / Freezing point</b>	-95 °C
<b>Evaporation Rate</b>	8.5 to 9
<b>Vapour Density</b>	2.8 – 3 @ 101 kPa
<b>Vapour Pressure</b>	120 – 141 mmHg @ 20 °C
<b>Specific Gravity</b>	0.673
<b>Solubility in Water</b>	Not soluble
<b>% Volatile</b>	90 - 100
<b>Other Data</b>	None

Section 10. Stability and Reactivity	
<b>Chemical Stability</b>	Stable
<b>Hazardous Polymerisation</b>	Will not occur
<b>Conditions to Avoid</b>	Open flames, sparks, all sources of ignition. Excessive heat.
<b>Materials to Avoid</b>	Oxidising agents
<b>Hazardous Decomposition Products</b>	None known

Section 11. Toxicological Information	
<b>Principle Routes of Exposure</b>	
<b>Skin:</b>	Irritant. Will cause irritation and redness, leading to dermatitis. Can be absorbed through the skin
<b>Eyes:</b>	Irritant. Liquid and vapours can cause severe irritation of the eyes
<b>Inhalation:</b>	Extremely hazardous. Prolonged exposure can lead to headaches, nausea, vomiting, dizziness, central nervous system effects and convulsions
<b>Ingestion:</b>	Extremely hazardous. May cause headache, nausea, vomiting and unconsciousness. Can also cause liver and kidney damage. Repeated exposure can lead to deterioration of health due to accumulation in one or more organs. Use of alcoholic beverages enhances toxic effects. Severe over exposure can result in death
<b>Additional Information</b>	

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<b>Acute Toxicity</b>	
<b>N- Hexane</b>	LD50: 25 g/kg (Rat, oral) LD50: >2000 mg/kg (Rabbit, dermal) LC50: 48000 ppm (Rat, inhalation)
<b>Chronic Toxic Effects</b> – Kidney and liver damage. Chronic exposure can lead to lack of feeling in the extremities and leading to more severe nerve damage	
<b>Carcinogenicity</b> – None of the ingredients are listed	
<b>Reproductive Toxicity / Teratogenicity / Embryotoxicity / Mutagenicity</b> – None known	

<b>Section 12. Ecological Information</b>	
<b>Ecotoxicity</b>	N Hexane: LC50: 2.5 mg/L (Pimephales promelas) LC50: 4.12 mg/L (Lepomis macrochirus) LC50: 4.14 mg/L (Oncorhynchus mykiss)
<b>BOD and COD</b>	No data
<b>Biodegradability / OECD</b>	No data
<b>Toxicity of the Products of Biodegradation</b>	No data
<b>Special Remarks</b>	May be harmful to aquatic life

<b>Section 13. Disposal Considerations</b>	
Dispose of in accordance with local, provincial and federal regulations	

<b>Section 14. Transport Information</b>	
<b>TDG Classification</b>	Hexane Mixture: UN 1208 Class 3, PG II
<b>Emergency Response Guide #</b>	ERG # 128
<b>Marine Pollutant</b>	No
<b>Special Precautions</b>	None

<b>Section 15. Regulatory Information</b>	
<b>Canada – DSL Inventory</b>	All components of this product are either on the Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL) or exempt
<b>TSCA</b>	All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt
<b>WHMIS Hazard Class</b>	B2 D2B
<b>Additional Information</b>	None

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**Section 16. Other Information****Prepared by:**

Chemfax Products Ltd., Technical Department

**Date Prepared:** October 6, 2011**Revision Date:** June 25, 2014**Disclaimer**

Notice to reader

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