

Product Name: **General Purpose Viscosity Standard – N.4**

Revision Date: *March 26, 2007*



MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product name: **General Purpose Viscosity Standard – N.4**
Product description: Petroleum hydrocarbon liquid; hexanes/ normal hexane
Product code: 9727-C10
Intended use: Low viscosity calibration standard

COMPANY IDENTIFICATION

Supplier: Cannon Instrument Company
2139 High Tech Road
State College, Pennsylvania 16803
Product Technical Information: (814) 353-8000
Product MSDS Information: (814) 353-8000

EMERGENCY TELEPHONE NUMBER:

24-Hour Transportation Emergency: (800) 255-3924 Domestic CHEM-TEL Inc.
24-Hour Health Emergency: +1 (813) 248-0585 Overseas CHEM-TEL Inc. (please call collect)

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

OSHA Hazardous Substance(s) or Complex Substance(s)

This product is hazardous as defined in 29 CFR1910.1200, based on the following:

<u>INGREDIENTS</u>	<u>CAS Number</u>	<u>Wt %</u>	<u>EINECS</u>	<u>SYM</u>	<u>R-Phrases</u>
n-Hexane	110-54-3	95%	203-777-6	F, Xn, N	R11, R62, R65, R48/20, R38, R67, R51/53
Related materials	Various	< 5%	NA	NA	NA

Occupational Exposure Limits:

<u>Component</u>	<u>Limit</u>	<u>TWA</u>	<u>STEL</u>	<u>Ceiling / Peak</u>	<u>Notation</u>
n-Hexane	ACGIH	50 ppm	NA	NA	Skin
n-Hexane	German MAK	1800 mg/m3	NA	4	NA
n-Hexane	OSHA PEL	500 ppm	NA	NA	NA

Note: State, local or other governments/ agencies may have established more stringent guidelines. Consult regulatory agencies or seek expert advice for additional standards/ recommendations

SECTION 3 HAZARD IDENTIFICATION

This material is considered hazardous according to regulatory guidelines (See Section 15).

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POTENTIAL PHYSICAL/CHEMICAL EFFECTS:

Extremely flammable liquid and vapor. Vapor can cause flash fire. Keep away from heat, sparks, flames, static electricity or other sources of ignition. Use explosion-proof pumps and/ or other electrical equipment as required. Static accumulation hazard: Bond/ ground equipment containers during transfer operations

POTENTIAL HEALTH EFFECTS:

Overexposure to n-hexane may cause effects on the peripheral nerves, resulting in weakness or numbness of lower limbs. Prolonged overexposure may result in damage to the central nervous system. Narcotic effects occur at levels above the PEL/ TLV. Prolonged repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis. Eye irritation. Skin irritation. Respiratory irritation, dizziness, nausea, loss of consciousness. Toxic effects or illness can result from absorption through skin. ***Aspiration hazard:*** If ingested, liquid can be aspirated into the lungs, resulting in chemical pneumonitis and severe lung irritation, potentially resulting in death. DO NOT INDUCE VOMITING.

Eye: Eye irritant. Contact may cause stinging, watering, redness, and swelling.

Skin: Skin irritant. Contact may cause redness, itching, burning, and skin damage. Prolonged or repeated contact can worsen irritation by causing drying and cracking of the skin, leading to dermatitis (inflammation). Contact may result in skin absorption but symptoms of toxicity are not anticipated by this route alone under normal conditions of use.

Inhalation (Breathing): Low degree of toxicity by inhalation.

Other Comments: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage (sometimes referred to as Solvent or Painters' Syndrome). Intentional misuse by deliberately concentrating and inhaling this material may be harmful or fatal.

Ingestion (Swallowing): Low degree of toxicity by ingestion. ASPIRATION HAZARD - This material can enter lungs during swallowing or vomiting and cause lung inflammation and damage. DO NOT INDUCE VOMITING.

Signs and Symptoms: Effects of overexposure may include irritation of the nose and throat, irritation of the digestive tract, headaches, nausea, transient excitation followed by signs of nervous system depression (e.g., headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue).

Cancer: Not classified as carcinogenic

Target Organs: Overexposure may cause injury to the peripheral nervous system. There is limited evidence from animal studies that overexposure may cause injury to the male reproductive system.

Pre-Existing Medical Conditions: Conditions aggravated by exposure may include skin disorders, respiratory (asthma-like) disorders. Exposure to high concentrations of this material may increase the sensitivity of the heart to certain drugs. Persons with pre-existing heart disorders may be more susceptible to this effect (see Section 4 - Note to Physicians).

POTENTIAL ENVIRONMENTAL EFFECTS:

Specific data/ information has not been provided by suppliers

NFPA HAZARD ID: Health: 1 Flammability: 3 Reactivity: 0
(National Fire Protection Association)

HMIS HAZARD ID: Health: 2* Flammability: 3 Reactivity: 0

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*Possible chronic effects

NOTE: This material should not be used for any other purpose than the intended use in Section 1 without expert advice.

SECTION 4	FIRST AID MEASURES
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INHALATION: If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

SKIN CONTACT: Remove contaminated shoes and clothing, and flush affected area(s) with large amounts of water. If skin surface is damaged, apply a clean dressing and seek medical attention. If skin surface is not damaged, cleanse affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops, seek medical attention.

EYE CONTACT: Move victim away from exposure and into fresh air. If irritation or redness develops, flush eyes with clean water and seek medical attention. For direct contact, hold eyelids apart and flush the affected eye(s) with clean water for at least 15 minutes. Seek medical attention.

INGESTION: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. If victim is drowsy or unconscious and vomiting, place on the left side with the head down. If possible, do not leave victim unattended and observe closely for adequacy of breathing. Seek medical attention.

NOTE TO PHYSICIAN: Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to high concentrations of hydrocarbon solvents (e.g., in enclosed spaces or with deliberate abuse). The use of other drugs with less arrhythmogenic potential should be considered. If sympathomimetic drugs are administered, observe for the development of cardiac arrhythmias.

Material, if aspirated into the lungs, may cause chemical pneumonitis. Treat appropriately.

PRE-EXISTING MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY EXPOSURE

None identified by the suppliers

SECTION 5	FIRE-FIGHTING MEASURES
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EXTINGUISHING MEDIA

Appropriate extinguishing media: Dry chemical, carbon dioxide, or foam is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.

Inappropriate extinguishing media: Water may be ineffective for extinguishment, unless used under favorable conditions by experienced fire fighters.

FIRE FIGHTING

Fire fighting instructions: For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when

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explicitly required by DOT, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

Isolate immediate hazard area, keep unauthorized personnel out. Move undamaged containers from immediate hazard area if it can be done with minimal risk. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

Unusual fire hazards: This material is extremely flammable and can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe). Vapors may travel considerable distances to a source of ignition where they can ignite, flash back, or explode. May create vapor/air explosion hazard indoors, in confined spaces, outdoors, or in sewers. Vapors are heavier than air and can accumulate in low areas. If container is not properly cooled, it can rupture in the heat of a fire.

Hazardous combustion products:

Carbon monoxide. carbon dioxide.

FLAMMABILITY PROPERTIES

OSHA Flammability Class: Flammable Liquid

NFPA Flammability Class: 1B Flammable Liquid

NFPA RATINGS: Health: 1 Flammability: 3 Reactivity: 0

Flash point °C (°F) [method]: -23°C (-9.4°F) [TCC, ASTM D-56]

Flammable limits (approx. Volume % in air) – LEL: 1.1 **UEL:** 7.7

Autoignition temperature °C (°F): 225°C / 437°F

SECTION 6	ACCIDENTAL RELEASE MEASURES
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NOTIFICATION PROCEDURES

Notify fire authorities and appropriate federal, state, and local agencies. Immediate cleanup of any spill is recommended. If spill of any amount is made into or upon navigable waters, the contiguous zones, or adjoining shorelines, notify the National Response Center (phone number 800-424-8802).

PROTECTIVE MEASURES

Extremely flammable. Keep all sources of ignition and hot metal surfaces away from spill/release. The use of explosion-proof electrical equipment is recommended. Stay upwind and away from spill/release. Notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant (see Section 8).

SPILL MANAGEMENT

Land/ water spill: Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Dike far ahead of spill for later recovery or disposal. Use foam on spills to minimize vapors (see Section 5). Spilled material may be absorbed into an appropriate absorbent material.

Water spill and land spill management recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

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ENVIRONMENTAL PRECAUTIONS

As above, Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Prevent contact with soil

SECTION 7	HANDLING AND STORAGE
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HANDLING

Open container slowly to relieve any pressure. Bond and ground all equipment when transferring from one vessel to another. Can accumulate static charge by flow or agitation. Can be ignited by static discharge. The use of explosion-proof electrical equipment is recommended and may be required (see appropriate fire codes). Refer to NFPA-704 and/or API RP 2003 for specific bonding/grounding requirements. Wash thoroughly after handling. Do not wear contaminated clothing or shoes. Keep contaminated clothing away from sources of ignition such as sparks or open flames. Use good personal hygiene practices.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Loading/unloading temperature (°C/°F): Ambient
Transport temperature (°C/°F): Ambient
Transport pressure (kPa): Ambient
Static accumulator: Yes

STORAGE

Keep container(s) tightly closed. Use and store this material in cool, dry, well-ventilated areas away from heat, direct sunlight, hot metal surfaces, and all sources of ignition. Post area "No Smoking or Open Flame." Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage. Outdoor or detached storage is preferred. Indoor storage should meet OSHA standards and appropriate fire codes.

Storage temperature (°C/°F): Ambient
Storage pressure (kPa) Ambient
Suitable materials and coatings: Ambient
Unsuitable materials and coatings: Ambient

SPECIFIC USES:

Cannon Instruments supplies this product as a laboratory calibration standard and reagent. It is an industrial hydrocarbon/ solvent with myriad additional uses. However, the advice in this MSDS is intended for only the recommended/ supplied application. Seek expert advice before using this product for other purposes.

SECTION 8	EXPOSURE CONTROLS/PERSONAL PROTECTION
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EXPOSURE LIMITS/STANDARDS

WORKPLACE EXPOSURE GUIDELINES

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. The information and recommendations contained herein is compiled from suppliers' MSDS and are accurate and reliable to the best of Cannon Instrument Company's knowledge and belief as of the indicated revision date. No representation, warranty or guarantee, however, is made with regards to accuracy, reliability or completeness. Conditions of use of the material are under the control of the user; therefore, it is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

OSHA REGULATION 29CFR1910.1000 PERMISSIBLE EXPOSURE LIMITS:

Normal hexane: 50 ppm (180 mg/m³) TWA with a “skin” notation
Other Hexane isomers: 500 ppm (1800 mg/m³) TWA and a STEL of 1000 ppm (3600 mg/m³).

ACGIH THRESHOLD LIMIT VALUES:

Normal hexane: 50 ppm (180 mg/m³) TWA with a “skin” notation
Other Hexane isomers: 500 ppm (1800 mg/m³) TWA and a STEL of 1000 ppm (3600 mg/m³).

ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Engineering controls are preferable to personal protective equipment. If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits (see Section 2), additional engineering controls may be required. Where explosive mixtures may be present, electrical systems safe for such locations must be used (see appropriate electrical codes).

PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection:

If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include: (generic type - no filter/cartridge recommendation)

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Hand Protection:

Any specific glove information provided is based on published literature and glove manufacturer data. Replace worn or damaged gloves. The types of gloves to be considered for this material include: nitrile, polyvinyl alcohol, or Viton® (see glove manufacturer literature for information on permeability).

Eye Protection:

The use of a face shield and chemical goggles to safeguard against potential eye contact, irritation, or injury is recommended.

Skin and Body Protection:

The use of gloves impervious to the specific material handled is advised to prevent skin contact, possible irritation, and skin damage. Examples of approved materials are nitrile, polyvinyl alcohol, or Viton® (see manufacturer literature for information on permeability). Depending on conditions of use, apron and/or arm covers may be necessary.

Specific Hygiene Measures:

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and personal protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned.

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ENVIRONMENTAL CONTROLS

See section 6, 7, 12, 13.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Typical physical and chemical properties are given below. Consult the Cannon Instrument Company as indicated in Section 1 for additional data.

GENERAL INFORMATION

Physical state:	Liquid
Form:	Liquid
Color:	Colorless
Odor:	Mild petroleum solvent odor
Odor threshold:	Not available

IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION

Relative density (formerly Specific Gravity): 0.664 @ 15.6°C
Bulk density g/cc: Not available
Density: 5.53 lb/gal @ 15.6°C (60°F)
Flash point °C (°F) [method]: -26°C / -15°F (TCC, ASTM D-56)
Flammable limits (approx. Volume % in air) - LEL: 1.2 UEL: 7.7
Ignition temperature (polymers) °C (°F): Not available
Autoignition temperature °C (°F): 437°F / 225°C
Boiling point/range °C (°F): 67°C (152.6°F) to 69°C (156.2°F)
Vapor density (Air=1): 3 Approximate
Vapor pressure: 2.5 psia @ 21°C
Evaporation rate: >1
pH: Not applicable
Log Pow (n-Octanol/water partition coefficient): Not available
Solubility in water (20 °C): Negligible

Viscosity @ 40°C cSt (mm²/sec): See product specification
100°C cSt (mm²/sec): See product specification

OTHER INFORMATION

Freezing point °C (°F): -95°C (-139°F)
Melting Point °C (°F): -95°C (-139°F)
Pour point °C (°F): Not available
Molecular weight: 86
Hygroscopic: No
Coefficient of thermal expansion: Not available

SECTION 10 STABILITY AND REACTIVITY

STABILITY:

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Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Extremely flammable liquid and vapor. Vapor can cause flash fire.

CONDITIONS TO AVOID:

Avoid all possible sources of ignition (see Sections 5 and 7).

MATERIALS TO AVOID:

Avoid contact with acids and oxidizers such as chlorine and other halogens, chromates, perchlorates, peroxides and oxygen.

HAZARDOUS DECOMPOSITION PRODUCTS:

Combustion can yield carbon dioxide, carbon monoxide.

HAZARDOUS POLYMERIZATION:

Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

CHRONIC DATA:

Target Organs: Excessive exposure to n-hexane can result in peripheral neuropathies. The initial symptoms are symmetrical sensory numbness and paresthesias of distal portions of the extremities. Motor weakness is typically observed in muscles of the toes and fingers but may also involve muscles of the arms, thighs and forearms. The onset of these symptoms may be delayed for several months to a year after the beginning of exposure. The neurotoxic properties of n-hexane are potentiated by exposure to methyl ethyl ketone and methyl isobutyl ketone.

Prolonged exposure to high concentrations of n-hexane (>1,000 ppm) has resulted in decreased sperm count and degenerative changes in the testes of rats but not those of mice.

Other Hexanes - CAS: VARIOUS

Target Organs: A mixture of hexane isomers, free of n-hexane, did not produce neurotoxic effects in rats exposed to 500 ppm for six months.

ACUTE DATA:

n-Hexane - CAS: 110-54-3

Dermal LD50 = >2,000 mg/kg (Rabbit)

LC50 = >3,367 ppm (4-hr., Rat)

Oral LD50 = > 5,000 mg/kg (Rat): 28.7 g/kg(Rat)

Other Hexanes - CAS: VARIOUS

Dermal LD50 = >2,000 mg/kg (Rabbit) (based on n-Hexane)

LC50 = >3,367 ppm (4-hr., Rat) (based on n-Hexane)

Oral LD50 = >5,000 mg/kg (Rat) (based on n-Hexane)

SECTION 12 ECOLOGICAL INFORMATION

Supplier of this product have not provided any relevant data/ information

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ECOTOXICITY

No data are available

MOBILITY

No data are available

PERSISTENCE AND DEGRADABILITY

Biodegradation: No data are available
Hydrolysis: No data are available
Photolysis: No data are available
Atmospheric oxidation: No data are available

BIOACCUMULATION POTENTIAL

No data are available

OTHER ECOLOGICAL INFORMATION

VOC: No data are available
COD: No data are available

SECTION 13

DISPOSAL CONSIDERATIONS

Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

DISPOSAL RECOMMENDATIONS

This material, if discarded as produced, would be a RCRA "characteristic" hazardous waste due to the characteristic(s) of ignitability (D001). If the spilled or released material impacts soil, water, or other media, characteristic testing of the contaminated materials may be required prior to their disposal. Further, this material, once it becomes a waste, is subject to the land disposal restrictions in 40 CFR 268.40 and may require treatment prior to disposal to meet specific standards. Consult state and local regulations to determine whether they are more stringent than the federal requirements. Container contents should be completely used and containers should be emptied prior to discard. Container rinsate could be considered a RCRA hazardous waste and must be disposed of with care and in full compliance with federal, state and local regulations. Larger empty containers, such as drums, should be returned to the distributor or to a drum reconditioner. To assure proper disposal of smaller empty containers, consult with state and local regulations and disposal authorities.

REGULATORY DISPOSAL INFORMATION

Empty container warning (where applicable): empty containers may retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

SECTION 14

TRANSPORT INFORMATION

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. The information and recommendations contained herein is compiled from suppliers' MSDS and are accurate and reliable to the best of Cannon Instrument Company's knowledge and belief as of the indicated revision date. No representation, warranty or guarantee, however, is made with regards to accuracy, reliability or completeness. Conditions of use of the material are under the control of the user; therefore, it is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

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Note: The information provided below may not apply to all shipping situations. Consult appropriate Dangerous Goods Regulations for additional requirements and mode-specific, material-specific, or quantity-specific shipping requirements.

United States Department of Transportation (US DOT):

UN/ID#	Proper Shipping Name	Class/Division	Hazard Label(s)	Packing Group
UN1208	Hexanes	3	Flammable Liquid	II

International Air Transport Association (IATA):

UN/ID#	Proper Shipping Name	Class/Division	Hazard Label(s)	Packing Group
UN1208	Hexanes	3	Flammable Liquid	II

SECTION 15 REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purposes, this material is classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

NATIONAL CHEMICAL INVENTORY LISTING:

This product, and/ or its constituents, is listed on the US EPA/ TSCA (Toxic Substances Control Act) Inventory

COMMUNITY RTK:

Chemical Name	CAS Number
Normal hexane	110-54-3
Other hexane isomers	various

CERCLA:

Chemical Name	CAS Number	Typical Value	Component TPQ
Normal hexane	110-54-3	>85%	5,000 pounds
Other hexane isomers	---	<15%	5,000 pounds

SARA (311/312) REPORTABLE HAZARD CATEGORIES:

Acute Health: Yes
Chronic Health: Yes
Fire Hazard: Yes
Pressure Hazard: No

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Reactive Hazard: No

SARA (313) TOXIC RELEASE INVENTORY:

This material contains the following chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372:

n-Hexane.....110-54-3.....>60%

International chemical inventories and hazard classifications

This product and/ or its components are on the Canadian Domestic Substance List/ NDSL

WHMIS Classifications (Canada):

B2 - Flammable and combustible material - Flammable liquid

D2B - Poisonous and infectious material - Other effects – Toxic



WHMIS Health Effects Criteria Met by this Chemical:

D2B - Chronic toxicity - toxic - other

WHMIS Ingredient Disclosure List:

Not included. Meets criteria for disclosure at 1% or greater.

This product and/ or its components are on EINECS (European Inventory of Existing Chemical Substances) and/ or ELINCS (European Library of Notified Chemical Substances)

EU Hazard Classification, risk and safety phrases (Europe):



F: Highly Flammable



Xn: Harmful



N: Dangerous for the Environment

R11: Highly flammable

R38: Irritating to skin

R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation

R62: Possible risk of impaired fertility

R65: Harmful: may cause lung damage if swallowed

R67: Vapours may cause drowsiness or dizziness

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S2: Keep out of reach of children

S9: Keep container in a well ventilated place

S16: Keep away from sources of ignition - No smoking

S29: Do not empty into drains

S33: Take precautionary measures against static discharges

S36/37: Wear suitable protective clothing and gloves

S61: Avoid release to the environment. Refer to special instructions/safety data sheet

S62: If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label

SECTION 16

OTHER INFORMATION

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THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

Revision Summary:

- **October 15, 2005 -- This MSDS has been fully reviewed and reformatted to conform to changes in standard format**
- **January 5, 2007 -- Update information to be consistent with current supplier MSDS**
- **February 27, 2007: Added Canadian and European classification and labeling information, based on current regulations and/or recommendations from suppliers (see Section 15)**
- **March 26, 2007: Updated and standardized format of Transport Information (see Section 14)**

NOTES: