



HAZTECH
SYSTEMS,TM
INC.

Material Safety Data Sheet



NFPA

HMIS

Health Hazard	2
Fire Hazard	3
Reactivity	0

PPE (See Section 15)



Section 1. Chemical Product and Company Identification

Common Name/ Trade Name	Hexane	Code	RE2079
Manufacturer	HazTech Systems, Inc. P.O. Box 929 Mariposa, CA 95338	CAS #	110-54-3
Commercial Name	Not available.	RTECS	MN9275000
Synonym	Not available.	TSCA	TSCA 9(b)
Chemical Name	Hexane	CI #	Not applicable.
Chemical Family	Solvent.	In case of emergency contact CHEMTREC (24 hours) at 800-424-9300	
Chemical Formula	C6-H14	HazTech Systems, Inc. 800-337-2497	
Supplier	Spectrum Chemical Mfg. Corp. 14422 S. San Pedro St. Gardena, CA 90248	Spectrum Chemical Mfg. Corp. 310-516-8000	

Section 2. Composition and Information on Ingredients

Name	CAS #	TWA (mg/m ³)	Exposure Limits		% by Weight
			STEL	CEIL (mg/m ³)	
Hexane	110-54-3	176			98.5 - 99.8
Toxicological Data on Ingredients	Hexane: ORAL (LD ₅₀)	Acute: 25000 mg/kg (Rat).			

Section 3. Hazards Identification

Potential Acute Health Effects <input type="checkbox"/>	Hazardous in case of skin contact (permeator), of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant). <input type="checkbox"/>
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. <input type="checkbox"/> MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. <input type="checkbox"/> TERATOGENIC EFFECTS: Not available. <input type="checkbox"/> DEVELOPMENTAL TOXICITY: Not available. <input type="checkbox"/> The substance may be toxic to peripheral nervous system, skin, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.

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Section 4. First Aid Measures

- Eye Contact Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes,
 keeping eyelids open. Get medical attention if irritation occurs.
- Skin Contact Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation
 develops.
- Serious Skin Contact Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical
 attention.
- Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get
 medical attention if symptoms appear.
- Serious Inhalation Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband.
 If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation.
 Seek medical attention.
- Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious
 person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
- Serious Ingestion Not available.

Section 5. Fire and Explosion Data

Flammability Flammable.

Auto-Ignition Temperature 225°C (437°F)

Flash Point CLOSED CUP: -22.5°C (-8.5°F). (TAG)Flammable Limits LOWER: 1.15% UPPER: 7.5%Products of Combustion These products are carbon oxides (CO, CO₂).Fire Hazards in Presence Highly flammable in presence of open flames and sparks, of heat. of Various Substances Non-flammable in presence of shocks.Explosion Hazards in Presence Risks of explosion of the product in presence of mechanical impact: Not available. of Various Substances Risks of explosion of the product in presence of static discharge: Not available.Fire Fighting Media Flammable liquid, insoluble in water. and Instructions SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray or fog.

Special Remarks on Extremely flammable liquid and vapor. Fire Hazards Vapor may cause flash fire.

Special Remarks on Not available.

Explosion Hazards

Section 6. Accidental Release MeasuresSmall Spill Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill Flammable liquid, insoluble in water. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled
 material. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

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Section 7. Handling and Storage

Precautions Keep locked up. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Avoid contact with skin. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

Storage Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

Section 8. Exposure Controls/Personal Protection

Engineering Controls Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection Safety glasses. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves (impervious).

Personal Protection in Case of a Large Spill Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits TWA: 500 (ppm) from OSHA (PEL) [United States] Inhalation
 TWA: 1800 (mg/m3) from OSHA (PEL) [United States] Inhalation
 TWA: 176 (mg/m3) from ACGIH (TLV) [United States] SKIN
 TWA: 50 (ppm) from ACGIH (TLV) [United States] SKIN
 TWA: 500 STEL: 1000 (ppm) from ACGIH (TLV) [United States] Inhalation
 TWA: 1760 STEL: 3500 (mg/m3) from ACGIH (TLV) [United States] Inhalation
 Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State and Appearance <input type="checkbox"/>	Liquid.	Volatility	Not available.
<input type="checkbox"/>			
Molecular Weight	86.18g/mole	Odor Threshold	130 ppm
pH (1% Solution in Water)	Not applicable.	Water/Oil Dist. Coeff.	The product is more soluble in oil; log(oil/water) = 3.9 <input type="checkbox"/>
Boiling Point	68°C(154.4°F)	Ionicity (in Water)	Not available.
Melting Point	-95°C(-139°F)	Dispersion Properties	See solubility in water, diethyl ether, acetone. <input type="checkbox"/>
Critical Temperature	Not available.	Solubility <input type="checkbox"/>	Soluble in diethyl ether, acetone. <input type="checkbox"/> Insoluble in cold water, hot water.
Specific Gravity	0.66 (Water-1)	Odor	Gasoline-like or petroleum-like (Slight.) <input type="checkbox"/>
Vapor Pressure	17.3kPa(@ 20°C)	Taste	Not available.
Vapor Density	2.97 (Air=1)	Color	Clear Colorless.

Section 10. Stability and Reactivity Data

Stability The product is stable.

Instability Temperature Not available.

Conditions of Instability Heat, ignition sources, incompatibles.

Incompatibility with Various Substances Reactive with oxidizing agents.

Corrosivity Not available.

Special Remarks on Corrosivity Hexane can react vigorously with strong oxidizers (e.g. chlorine, bromine, fluorine).

Polymerization Will not occur.

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Section 11. Toxicological Information

Route of Entry Absorbed through skin. Dermal contact. Inhalation. Ingestion.

Toxicity to Animals WARNING: THE LC₅₀ VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD₅₀): 25000 mg/kg [Rat]. Acute toxicity of the gas (LC₅₀): 48000 ppm 4 hours [Rat].Chronic Effects on Humans MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. May cause damage to the following organs: peripheral nervous system, skin, central nervous system (CNS).Other Toxic Effects on Humans Very hazardous in case of ingestion, of inhalation. Hazardous in case of skin contact (permeator). Slightly hazardous in case of skin contact (irritant).

Special Remarks on Toxicity to Animals Not available.

Special Remarks on Chronic Effects on Humans May cause adverse reproductive effects based on animal data. May affect genetic material. May be tumorigenic based on animal data. Passes through the placental barrier in animal.

Special Remarks on Other Acute Potential Health Effects: Skin: May cause mild skin irritation. It can be absorbed through the skin in harmful amounts. Eyes: May cause mild eye irritation. Inhalation: May be harmful if inhaled. Inhalation of vapors may cause respiratory tract irritation. Overexposure may affect, brain, spinal cord, behavior/central and peripheral nervous systems (lightheadness, dizziness, hallucinations, paralysis, blurred vision, memory loss, headache, euphoria, general anesthetic, muscle weakness, numbness of the extremities, asphyxia, unconsciousness and possible death), metabolism, respiration, blood, cardiovascular system, gastrointestinal system (nausea) Ingestion: May be harmful if swallowed. May cause gastrointestinal tract irritation with abdominal pain and nausea. May also affect the liver, blood, brain, peripheral and central nervous systems. Symptoms of overexposure by ingestion are similar to that of overexposure by inhalation.**Section 12. Ecological Information**

Ecotoxicity Not available.

BOD5 and COD Not available.

Products of Biodegradation Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation Not available.

Section 13. Disposal Considerations

Waste Disposal Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14. Transport Information

DOT Classification CLASS 3: Flammable liquid.

Identification : Hexane UNNA: 1208 PG: II

Special Provisions for Transport Not available.

DOT (Pictograms)

**Section 15. Other Regulatory Information and Pictograms**Federal and State Regulations Connecticut carcinogen reporting list.: Hexane Illinois toxic substances disclosure to employee act: Hexane Illinois chemical safety act: Hexane New York release reporting list: Hexane Pennsylvania RTK: Hexane Florida: Hexane Minnesota: Hexane Massachusetts RTK: Hexane New Jersey: Hexane New Jersey spill list: Hexane Louisiana spill reporting: Hexane TSCA 8(b) inventory: Hexane SARA 313 toxic chemical notification and release reporting: Hexane CERCLA: Hazardous substances.: Hexane: 5000 lbs. (2268 kg)

California Proposition 65 Warnings

Other Regulations OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

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Other Classifications WHMIS (Canada) CLASS B-2: Flammable liquid with a flash point lower than 37.8CC (100°F).
CLASS D-2B: Material causing other toxic effects (TOXIC).
DSCL (EEC) R11- Highly flammable. S2- Keep out of the reach of children.

HMIS (U.S.A.)

Health Hazard	2
Fire Hazard	3
Reactivity	0
Personal Protection	g

National Fire Protection
Association (U.S.A.)

Flammability

WHMIS (Canada)
(Pictograms)DSCL (Europe)
(Pictograms)TDG (Canada)
(Pictograms)ADR (Europe)
(Pictograms)

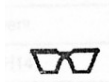
Protective Equipment



Gloves (impervious).



Lab coat.

Vapor respirator. be sure to use an approved/certified respirator or equivalent.
Wear appropriate respirator when ventilation is inadequate.

Safety glasses.

Section 16. Other Information

Catalog Number(s) MSDS Code H3134

References Not available.

Other Special Considerations Not available.

Validated by Sonia Owen 3/22/2002.

Verified by Sonia Owen. Printed 7/8/2002.

Call 1-800-543-5487

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.