#### **Hexanes**



### Section 1

### **Product Description**

Product Name: Hexanes

**Recommended Use:** Science education applications

Synonyms: Aliphatic Hydrocarbon

**Distributor:** Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

**Chemical Information:** 

Chemtrec:

800-227-1150 (8am-5pm (ET) M-F)

#### Section 2

### **Hazard Identification**

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

### **DANGER**









Highly flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

#### **GHS Classification:**

Aspiration Hazard Category 1, Flammable Liquid Category 2, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2, Reproductive Toxicity Category 2, Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 2, Hazardous to the aquatic environment - Acute Category 2, Hazardous to the aquatic environment - Chronic Category 2, Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3

Acute Toxicity Oral Contains
Acute Toxicity Dermal Contains
Acute Toxicity Inhalation Gas
Contains

100 % of the mixture consists of ingredient(s) of unknown toxicity
100 % of the mixture consists of ingredient(s) of unknown toxicity
100 % of the mixture consists of ingredient(s) of unknown toxicity

**Acute Toxicity Inhalation Vapor** 

**Contains** 

**Acute Toxicity Inhalation Dust/Mist** 

Contains

100 % of the mixture consists of ingredient(s) of unknown toxicity

100 % of the mixture consists of ingredient(s) of unknown toxicity

# Section 3 Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Hexanes
 110-54-3
 100

# Section 4 First Aid Measures

**Emergency and First Aid Procedures** 

**Inhalation:** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin Contact: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical

advice/attention. Take off contaminated clothing and wash before reuse.

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

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**Extinguishing Media:** Use dry chemical, CO2 or appropriate foam.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

#### Section 6

### **Spill or Leak Procedures**

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Avoid breathing

dust/fume/gas/mist/vapors/spray. Evaporation of volatile substances can lead to the

displacement of air creating an environment that can cause asphyxiation.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Use an inert absorbent such as sand or vermiculite. Place in properly labeled closed

container. Collect spillage.

### **Section 7**

## **Handling and Storage**

**Handling:** Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed.

Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/.../

equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Bond and ground containers when transferring liquid.

Retained residue may make empty containers hazardous.

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

ventilated place. Keep cool. Store locked up. Keep container tightly closed in a cool, well-ventilated place.

**Storage Code:** Red - Flammables. Store in approved flammable containers. Store away from oxidizing materials.

#### Section 8

#### Protection Information

 Chemical Name
 (TWA)
 (STEL)
 (TWA)
 (STEL)

 Hexanes
 50 ppm TWA
 N/A
 500 ppm TWA;
 N/A

 1800 mg/m3 TWA

**Control Parameters** 

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required when

handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection:

No respiratory protection required under normal conditions of use. Wear a NIOSH

approved respirator if levels above the exposure limits are possible.

**Respirator Type(s):** NIOSH approved air purifying respirator with dust/mist filter.

**Eye Protection:** Wear chemical splash goggles when handling this product. Have an eye wash station

available.

**Skin Protection:**Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Use impervious gloves. Where use can result in skin contact, practice good personal hygiene. Inspect gloves for chemical break-through and

replace at regular intervals. Clean protective equipment regularly.

Gloves: Nitrile - Extra Thick (8 mm)

### Section 9

### **Physical Data**

Formula: C6H14 Vapor Pressure: 125

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Molecular Weight: 86.18 g/mol

Appearance: Liquid
Odor: Mild Gasoline-like

Odor Threshold: No data available

pH: No data available

Melting Point: No data available

**Boiling Point: 69 C** 

Flash Point: No data available -22 C Flammable Limits in Air: 1.10% 7.50% Evaporation Rate (BuAc=1): 9 Vapor Density (Air=1): 3

Specific Gravity: 0.664 at 15.6 °C Solubility in Water: Slightly Soluble Log Pow (calculated): 3.90 - 4.11 Autoignition Temperature: 225 C

**Decomposition Temperature:** No data available

Viscosity: No data available
Percent Volatile by Volume: 100%

## Section 10 Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

**Conditions to Avoid:** Sparks, open flame, other ignition sources, and elevated temperatures.

Incompatible Materials: Oxidizing materials
Hazardous Polymerization: Will not occur

## Section 11 Toxicity Data

Routes of Entry Inhalation, Ingestion, and Skin contact.

Symptoms (Acute): Respiratory disorders, Impaired Kidney Function, Central Nervous System Disorders

**Delayed Effects:** No data available

**Acute Toxicity:** 

Chemical NameCAS NumberOral LD50Dermal LD50Inhalation LC50Hexanes110-54-3Oral LD50 Rat = 25000 mg/kgNot determined (4h) Rat = 48000

(411) Kat = 1

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHANo data available110-54-3Not listedNot listedNot listed

**Chronic Effects:** 

**Mutagenicity:** No evidence of a mutagenic effect.

**Teratogenicity:** No evidence of a teratogenic effect (birth defect).

**Sensitization:** No evidence of a sensitization effect.

**Reproductive:** No evidence of negative reproductive effects.

**Target Organ Effects:** 

Acute: See Section 2

**Chronic:** Not listed as a carcinogen by IARC, NTP or OSHA., Reproductive data cited., Tumorigenic data cited.

# Section 12 Ecological Data

Overview: Moderate ecological hazard. This product may be dangerous to plants and/or wildlife. Highly/very

toxic to fish and other water organisms.

Mobility:No dataPersistence:No dataBioaccumulation:No dataDegradability:No dataOther Adverse Effects:No data

Chemical Name CAS Number Eco Toxicity

Hexanes 110-54-3 24 HR EC50 DAPHNIA MAGNA > 1000 MG/L

## Section 13 Disposal Information

**Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

# Section 14 Transport Information

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**Ground - DOT Proper Shipping Name:** 

UN1208, Hexanes, 3, II, 200 L

Air - IATA Proper Shipping Name:

UN number: 1208 Class: 3 Packing group: II Proper shipping

name: Hexanes

#### **Section 15 Regulatory Information**

**TSCA Status:** All components in this product are on the TSCA Inventory.

**Chemical Name** CAS § 313 Name § 304 RQ **CERCLA RQ CAA 112(2)** § 302 TPQ

Number TQ

Hexanes 110-54-3 n-Hexane No 5000 lb final No No

RQ; 2270 kg

final RQ

#### **Section 16 Additional Information**

Revised: 09/09/2015 Replaces: 09/03/2014 Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value

Not Available **TSCA** Toxic Substances Control Act N/A

**IDLH** Immediately dangerous to life and health

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