Hexanes

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Section 1

Product Description

Product Name: Recommended Use: Synonyms: Distributor: Hexanes Science education applications Aliphatic Hydrocarbon Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F)

Chemical Information: Chemtrec:

Section 2

Hazard Identification

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



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 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, Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 2, Hazardous to the aquatic environment - Chronic Category 2, Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3

Section 3	Composition / Information on Ingredients				
Chemical Name	CAS #	<u>%</u>			
Hexane	110-54-3	70			
Hexanes, mixed isomers	92112-69-1	30			
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.
Ingestion:	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Section 5	Firefighting Procedures
Extinguishing Media: Fire Fighting Methods and Protection	 Use dry chemical, CO2 or appropriate foam. Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards: Hazardous Combustion Products:	Fire or excessive heat may produce hazardous decomposition products. Carbon dioxide, Carbon monoxide
Section 6	Spill or Leak Procedures
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.
Methods for Clean-up	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

	ACGIH		OSHA PEL	
Chemical Name	(TWA)	<u>(STEL)</u>	(TWA)	(STEL)
Hexane	50 ppm TWA	N/A	500 ppm TWA; 1800 mg/m3 TWA	N/A
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 was	sh, 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 mr	n)		

Section 9

Formula: C6H14 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%

Section 10

Physical Data

Vapor Pressure: 125 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%

Reactivity Data

No data available Reactivity: **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

Routes of Entry

Symptoms (Acute): **Delayed Effects:**

Toxicity Data

Inhalation, Ingestion, and Skin contact. Respiratory disorders, Impaired Kidney Function, Central Nervous System Disorders No data available

Acute Toxicity: Chemical Name Hexane	CAS Number 110-54-3	Oral LD50	Dermal LD50	Inhalation LC50	
Carcinogenicity: Chemical Name No data available	CAS Number	IARC	NTP	OSHA	
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects:	No evidence of a mutagenic effect. No evidence of a teratogenic effect (birth defect). No evidence of a sensitization effect. No evidence of negative reproductive effects.				

See Section 2

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

Section 12

Acute:

Chronic:

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 data			
Persistence:	No data			
Bioaccumulation:	No data			
Degradability:	No data			
Other Adverse Effects:	No data			
Chemical Name Hexane	CAS Number 110-54-3	Eco Toxicity 96 HR LC50 PIMEPHALES PROMELAS 2.1 - 2.98 MG/L [FLOW- THROUGH] 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. Not Determined

Waste Disposal Code(s):

Section 14

Transport Information

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 Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Hexane	110-54-3	n-Hexane	No	5000 lb final RQ; 2270 kg final RQ	No	No
California Prop 65:	<u>.</u>	N	WARNING: Ca	incer – www.P65V	Varnings.ca.gov	
Section 16					Additic Informa	
Revised: 04/10/2024	Replace	es: 09/29/2021		Printed: 01	-17-2025	

Revised: 04/10/2024Replaces: 09/29/2021Printed: 01-17-2025The 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 Industrial Hygienists	NTP OSHA	National Toxicology Program 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
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health