



# Safety Data Sheet

## N-Hexane

### 1. Identification

**Product Name:** N-Hexane**Item #:** DI0605015**Web SDS:** S487**Synonyms:** Hexane, hexyl hydride, normal-Hexane**Recommended Use:** N/A**Restrictions on Use:** N/A**Manufacturer:**

BBC Biochemical  
409 Eleanor Lane,  
Mount Vernon, WA 98273  
1-800-635-4477

**In Case of Emergency:**

Chemtrec US 1-800-424-9300  
Chemtrec International 703-527-3887

### 2. Hazards Identification

**OSHA Hazard Classification(s):**

Eye Irritation - Category 2B

Specific Target Organ Toxicity (repeated exposure) - Category 2

Toxic to Reproduction - Category 2

Flammable Liquids - Category 2

Aspiration Hazard - Category 1

**Signal Word:** Danger**Hazard Statement(s):** Causes eye irritation. May cause damage to organs (central nervous system) through prolonged or repeated exposure. Suspected of damaging fertility of the unborn child. Highly flammable liquid and vapor. May be fatal if swallowed and enters airways.**Pictogram(s):****Precautionary Statement(s):** Prevention: Wash body thoroughly after handling. Do not breathe dust, vapors. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye protection and face protection. Keep away from heat sources and open flame. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting and equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

Response: 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 attention. Call a doctor if you feel unwell. If exposed or concerned: Get medical attention. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. In case of fire: Use water, dry chemical, CO2 or foam to extinguish. If swallowed: Immediately call a doctor. Rinse Mouth. Do NOT induce vomiting.

**Storage:** Store locked up. Store in a well-ventilated place. Keep cool.**Disposal:** Dispose of contents/container in accordance with local regulations.**Descriptions of Hazards not otherwise classified:** N/A**Percent of mixture with unknown acute toxicity:** N/A

### 3. Composition and Information on Ingredients

Chemical Name	Common Name	CAS #	Concentration %
N-Hexane		110-54-3	60-70
Mixed Hexanes			30-40

### 4. First Aid Measures

**Eye Contact:** 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): Take off immediately all contaminated clothing and wash before reuse. Wash with plenty of water.



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If skin irritation occurs: Get medical advice/attention.

**Inhalation:** Vapor Harmful. Remove to fresh air; give artificial respiration if breathing has stopped. Get medical advice/attention if you feel unwell.

**Ingestion:** Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention.

**Symptoms:** Irritation eyes, nose, throat; headache, dizziness, central nervous system depression; dermatitis. Inhalation of high concentrations of this material, as could occur in enclosed spas or during deliberate abuse may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. This material is an aspirating hazard. Potential danger from aspiration must be weighed against possible oral toxicity. Preexisting disorders of the following organs may be aggravated by exposure to this material: Upper respiratory tract, skin, lung, central nervous system, male reproductive system.

**Recommendations for immediate medical care/special treatment:** Get medical advice/attention if you feel unwell. Health effects on the following target organs: Peripheral nerve tissue, kidney, central nervous system, liver, lung, nasal, testis.

### 5. Fire- Fighting Measures

**Extinguishing Media:** Dry chemical, carbon dioxide, alcohol foam, water. Use water spray to cool fire-exposed containers and disperse vapors.

**Fire Hazards (Chemical):** OSHA classified Flammable Liquid Category 2, NFPA Flammable Liquid Class 1B

**Special Protective Equipment:** Fire fighters should use self-contained breathing apparatus and protective clothing.

**Precautions for Firefighters:** Carbon monoxide and unidentified organic compounds may be formed during combustion. Vapors can travel distances to ignition source and flash back. Cool fire exposed containers with water. Fine mist or spray may be flammable at temperatures below the flash point. When heated above the flash point this material emits flammable vapors which, when mixed with air, can burn or be explosive.

### 6. Accidental Release Measures

**Emergency Procedures:** Evacuate the area of all unnecessary personnel. Wear suitable protective equipment. Eliminate all sources of ignition and provide ventilation.

**Protective Equipment:** See section 8

**Environmental Precautions:** Prevent release to the environment by using barriers.

**Containment and Clean-Up Procedures:** Use barriers to prevent spreading. Collect spill in container. Call waste authorities.

### 7. Handling and Storage

**Handling:** Do not breathe vapors. Do not eat, drink or smoke when using this product. Keep away from heat, sparks, open flames, hot surfaces. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

**Storage:** Store locked up. Store in a well-ventilated place. Keep cool. Keep container tightly sealed when not in use.

### 8. Exposure Controls/Personal Protection

**OSHA Permissible Exposure Limits (PELs):**

Reagent	CAS #	OSHA PEL TWA
N-Hexane	110-54-3	500ppm

**ACGIH Threshold Limit Values (TLVs):**

Reagent	CAS #	ACGIH PEL TLV	ACGIH STEL
N-Hexane	110-54-3	500ppm	

**Engineering Controls:** Use in a well ventilated area to prevent exposure. Maintain eyewash fountain and quick-drench facilities in work areas.

**Personal Protective Measures:** Wear gloves, lab coat, eye protection and impervious footwear. Contact lenses should not be worn when working with this material.



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**Special PPE Requirements:** If ventilation hood not available wear respirator.

### 9. Physical and Chemical Properties Section

**Appearance:** Colorless, Liquid

**Molecular Weight:** N/A

**Molecular Formula:** N/A

**pH:** N/A

**Boiling Point and Boiling Range:** 155.7°F

**Melting Point/Freezing Point:** -137.7°F

**Flash Point:** -7°F

**Specific Gravity/Relative Density:** N/A

**Odor:** Hydrocarbon-like

**Odor Threshold:** N/A

**Color:** Colorless

**Flammability (solid/gas):** Flammable liquid category 2 (OSHA)

**Vapor Density:** 2.97 AIR=1

**Upper/Lower flammability or explosive limits:** LEL 1.1%, UEL 7.5%

**Vapor Pressure:** 20.397 kPa @ 25°C

**Evaporation Rate:** 9 n-Butyl Acetate

**Partition Coefficient: n-octanol/water:** N/A

**Viscosity:** 0.31 mPa.s

**Auto-ignition temperature:** 437°F

**Solubility:** Insoluble in water

**Decomposition Temperature:** N/A

### 10. Stability and Reactivity

**Reactivity:**

**Chemical Stability:** Stable

**Conditions of Stability/Instability:** Heat, flames, sparks, sources of ignition.

**Stabilizers needed:** None

**Safety issue indicated by appearance change:** N/A

**Other:** N/A

**Hazardous Reactions:** N/A

**Hazardous Polymerization:** Does not occur

**Conditions to avoid:** Heat, open flame, sources of ignition.

**Classes of Incompatible Materials:** Oxidizers, Strong Acids, Strong Bases, Peroxides

**Hazardous Decomposition Products:** Thermal-oxidation degradation can produce oxides of carbon. Toxic gases and vapors (I.e. Carbon monoxide) may be released in a fire.

### 11. Toxicological Information

**Likely Routes of Exposure**

**Eyes:** Irritation.

**Skin:** Irritation.

**Inhalation:** Dizziness, headache, nausea, narcosis

**Ingestion:** Nausea.

**Signs or Symptoms of Exposure:** Irritation eyes, nose, throat; headache, dizziness, central nervous system depression; dermatitis

**Effects from short term exposure (delayed, immediate, chronic):** Irritation to the eyes, nose, throat; headache,



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dizziness, nausea. Target organs: eyes, skin, respiratory system, central nervous system.

**Acute Toxicity (Numerical Measures):** N/A

**Carcinogenicity (NTP, IARC, OSHA):** Not listed as a carcinogen

### 12. Ecological Information

**Ecotoxicity:** N/A

**Persistence and degradability:** N/A

**Bioaccumulation Potential (octanol-water partition coefficient, BCF):** N/A

**Mobility in the soil:** N/A

**Adverse Environmental Effects:** N/A

### 13. Disposal Considerations

**Recommended Disposal Containers:** Check with your local waste authorities\*

**Recommended Disposal Methods:** Do not dispose of in drains, check with your local waste authorities.\*

**Physical/Chemical Properties affecting Disposal:** See section 2 and section 9 applicable information.\*

**Special Precautions for Landfill and Incineration Activities:** Check with your local waste authorities.\*

**Waste Stream:** Consult your local or regional authorities.\*

### 14. Transport Information

**UN Number:** UN1208

**UN Proper Shipping Name:** Hexanos

**Transport Hazard Class(es):** 3

**Packing Group Number:** II

**Environmental Hazards (IMDG code):**

**Marine Pollutant:** No

**Transport in Bulk (IBC Code):** N/A

**Special Transport Precautions:** N/A

### 15. Regulatory Information

**OSHA:**

**DOT:**

**EPA:**

**CPSC:**



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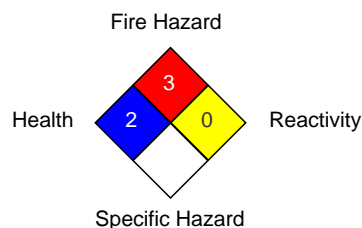
### 16. Other Information

Revision Date: 03/09/2017

#### NFPA

Health	2
Fire Hazard	3
Reactivity	0
Specific Hazard	

National Fire Protection Association (USA) NFPA



#### HMIS

Health	2
Flammability	3
Physical Hazard	0
Personal Protection	

Hazardous Material Information System HMIS

Health	2
Flammability	3
Physical Hazard	0
Personal Protection	

#### Notice to Reader:

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