



SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Hexanal
PRODUCT NUMBER: H3700
COMPANY INFO: *PhytoTechnology Laboratories*[®]
PO Box 12205, Shawnee, KS 66282-2205
Phone: 1-888-749-8682 or 1-913-341-5343; Fax: 1-888-449-8682 or 1-913-341-5442
www.phytotechlab.com

EMERGENCY PHONE NUMBER: 1-800-535-5053 - US Only
(INFOTRAC): 1-352-323-3500 - International

RECOMMENDED USE: For Research Use Only

RESTRICTIONS ON USE: Products sold by *PhytoTechnology Laboratories*[®] are intended for research and laboratory use only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal products, food additives, or as household chemicals.

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

GHS Classification:

H226 – Flammable liquids (Category 3)
H319 – Eye irritation (Category 2A)

GHS Label elements, including hazard and precautionary statements:



Signal Word: **Warning**

Hazard Statements:

H226 – Flammable liquid and vapor
H319 – Causes serious eye irritation

Precautionary Statements:

P210 – Keep away from heat/sparks/open flames/hot surfaces
P264 – Take precautionary measures against static discharge
P273 – Avoid release to the environment.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352 + IF ON SKIN: Wash with plenty of soap and water
P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Hazards not otherwise classified (HNOC) or not covered by GHS: - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Caproaldehyde; Aldehyde C6; Hexyl aldehyde
CAS No.: 66-25-1
Formula: C₆H₁₂O
Molecular Weight: 100.16 g/mol
EC No.: 200-624-5

Ingredient	CAS Number	Percent	Hazardous
Hexanal	66-25-1	~97%	No exposure limits established by OSHA or ACGIH

4. FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Route of Entry	Symptoms	First Aid Procedures
Ingestion	May cause irritation if swallowed	If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention.
Inhalation	May cause irritation to respiratory tract	Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Get medical attention.
Eye Contact	Direct contact may cause irritation. May cause redness, tearing, or blurred vision.	Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.
Skin Contact	Irritating. May cause reddening, itching or inflammation.	Wash area thoroughly with soap and water. Remove and wash contaminated clothing. Get medical attention if irritation persists.

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use extinguishing media suitable for surrounding fire.

Special Protective Equipment and Precaution for Firefighters: In the event of a fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus. Evacuate the area and fight fire from a safe distance.

Hazardous Combustion Products: No data available

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid breathing vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Evacuate personnel to safe areas.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Method of Containment and Cleanup: Clean-up personnel should wear proper protective equipment and clothing. Contain spilled material and do not let product enter drains. Soak up with inert absorbent material and place in a suitable, closed container for disposal in accordance with all local, state/provincial, and national requirements. Ventilate the area if necessary.

7. HANDLING AND STORAGE

Precaution for Safe Handling: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition. No smoking. Avoid incompatible substances. Wash thoroughly after use.

Conditions for Safe Storage: Keep in a tightly closed container and store in a cool, dry, and well-ventilated area. Store upright to prevent leakage. Do not store near acids.

Incompatibilities: Oxidizing agents, Strong bases, Strong reducing agents

Recommended Storage Temperature: 2-8°C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): No data available

Threshold Limit Values (TLVs): No data available

Engineering Controls: Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

Eye/Face Protection: Chemical safety glasses or goggles. Have eye-washing facilities readily available where eye contact can occur.

Skin Protection: Protective gloves

Body Protection: Lab coat

Respiratory Protection: Appropriate respirator

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid

pH: No data available

Solubility: No data available

Melting Point: -3.98°F (-20°C)

Vapor Density: 3.46 - (Air = 1.0)

Vapor Pressure: 13 hPa (10 mmHg) at 25 °C (77 °F)

Odor: No data available

Odor Threshold: No data available

Viscosity: No data available

Relative Density: 0.814 g/cm³

Evaporation Rate: No data available

Initial Boiling Point and Boiling Range: 267.8°F (131°C)

Flammability (solid, gas): No data available

Partition coefficient: log Pow: 1.8
n-octanol/water):

Auto-ignition Temperature: No data available

Decomposition Temperature: No data available

Flash Point (Closed Cup): 90.0°F (32.2°C)

Flammable Limits: Upper (%) – 7.5 % (V) Lower (%) – 1 % (V)

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use

Possibility of Hazard Reactions: Vapors may form explosive mixture with air

Conditions to Avoid: Heat, flames and sparks

Incompatibles Materials: Oxidizing agents, Strong bases, Strong reducing agents, Do not store near acids.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide

11. TOXICOLOGICAL INFORMATION

Toxicity: LD₅₀ (Oral-Rat)(mg/Kg): 4,890
LD₅₀ (Oral-Mouse)(mg/Kg): No data available
LD₅₀ (Dermal-Rabbit)(mg/Kg): 5,500

Carcinogenicity: NTP: No
IARC: No
OSHA Reg: No

Reproductive Toxicity: No data available

Specific Target Organ Toxicity: Single Exposure: No data available
Repeated Exposure: No data available

Target Organs: None identified

Medical Conditions Aggravated By Exposure: None identified

Routes of Entry: Inhalation, Ingestion

NIOSH/RTECS NO: MN7175000

The toxicological properties of this product have not been thoroughly investigated

12. ECOLOGICAL INFORMATION

Ecotoxicity: Toxicity to fish - LC50 - Pimephales promelas (fathead minnow) - 22 mg/l - 96 h
LC50 - Pimephales promelas (fathead minnow) - 724 mg/l - 96 h

Persistence and Degradability: No data available

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Other Adverse Effects: No data available

13. DISPOSAL CONSIDERATION

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental regulations.

14. TRANSPORT INFORMATION

Domestic (D.O.T.): Proper Shipping Name: Hexaldehyde
Hazard Class: 3
UN: 1207 Packing Group: III
Poison Inhalation Hazard: No

International:
IMDG: Proper Shipping Name: Hexaldehyde
Hazard Class: 3
UN: 1207 Packing Group: III EMS-NO.: F-E, S-D
IATA: Proper Shipping Name: Hexaldehyde
Hazard Class: 3

UN:

1207

Packing Group: III

15. REGULATORY INFORMATION**TSCA:** Yes**SARA TITLE III:**

Section 302 (EHS) Ingredients: No

Section 313 Ingredients: No

Section 304 (EHS/CERCLA) Ingredients: No

Section 311/312 Hazard: Fire Hazard

Massachusetts Right to Know Components: CAS No.: 66-25-1 Hexanal**Pennsylvania Right to Know Components:** CAS No.: 66-25-1 Hexanal**New Jersey Right to Know Components:** CAS No.: 66-25-1 Hexanal**California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.**16. OTHER INFORMATION**

HMIS Rating:	Health Hazard	Flammability	Physical Hazard	Personal Protection
	1	3	0	B
NFPA Rating:	Health Hazard	Fire Hazard	Instability	Special Hazard
	0	3	0	

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