FLINN SCIENTIFIC

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Safety Data Sheet (SDS)

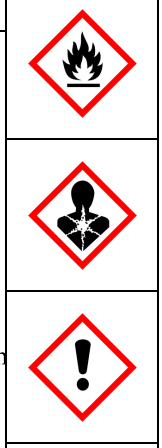
SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

n-Hexane

Signal Word
DANGER

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261
Chemtrec Emergency Phone Number: (800) 424-9843

Pictograms



SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Flammable liquids (Category 2). Highly flammable liquid and vapor (H225). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).
Hazard class: Aspiration hazard (Category 1). May be fatal if swallowed and enters airways (H304).
Hazard class: Skin corrosion or irritation (Category 2). Causes skin irritation (H315).
Hazard class: Specific target organ toxicity, single exposure; Narcotic effects (Category 3). May cause drowsiness or dizziness (H336). Avoid breathing mist, vapors or spray (P261).
Hazard class: Reproductive toxicity (Category 2). Suspected of damaging fertility or the unborn child (H361). Obtain special instructions before use (P201). Do not handle until all safety precautions have been read and understood (P202). Use personal protective equipment as required (P281).
Hazard class: Specific target organ toxicity, repeated exposure (Category 2). May cause damage to organs through prolonged or repeated exposure (H373). Do not breathe mist, vapors or spray (P260).

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
n-Hexane	110-54-3	$CH_3(CH_2)_4CH_3$	86.18	

SECTION 4 — FIRST AID MEASURES

If exposed or concerned: Get medical advice or attention (P308+P313).
If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340).
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.
If on skin or hair: Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353). **If skin irritation occurs:** Get medical advice or attention (P332+P313).
If swallowed: Rinse mouth. Do not induce vomiting. Call a POISON CENTER or physician if you feel unwell.

SECTION 5 — FIRE FIGHTING MEASURES

Class IB flammable liquid.
Flash point: -22 °C Flammable limits: Upper 7.5% Lower: 1.1% Autoignition Temperature: 225 °C

NFPA Code
H-2
F-3

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When heated to decomposition, may emit toxic fumes. R-0
In case of fire: Use tri-class dry chemical fire extinguisher (P370+P378).

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Remove all ignition sources and ventilate area. Contain the spill with sand or other inert absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Organic #3. Store with hydrocarbons, oils, esters and aldehydes.
Store in a cool, dry place. Keep container tightly closed (P233). Keep cool (P235). Ground or bond container and receiving equipment (P240). Use explosion-proof electrical and ventilating equipment (P241). Use only non-sparking tools (P242). Take precautionary measures against static discharge (P243). Use only in a hood or in a well ventilated area (P271).

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash thoroughly after handling (P264). Use only in a hood or in a well ventilated area (P271).
Exposure guidelines: TLV 50 ppm (ACGIH); PEL 500 ppm (OSHA); IDLH 1100 ppm

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Clear, colorless liquid. Weak, characteristic odor.
Soluble in alcohol and ether. Not miscible with water.
Explosion limits: 1.2 vol% (lower) 7.4 vol% (upper)

Boiling point: 69 °C Melting point: -95 °C
Flash point: -23 °C Ignition temp: 240 °C
Refractive index: 1.375
Specific gravity: 0.6591 Density at 20 °C: 0.659 g/cm3
Vapor density: 3 Vapor pressure at 20 °C: 160 hPa

SECTION 10 — STABILITY AND REACTIVITY

Avoid heat, sunlight, and ignition sources. Reacts with oxidizing agents.
Shelf life: Good.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Eye, skin, and mucous membrane irritant. Headache, peripheral neuropathy, dizziness, dermatitis.
Chronic effects: Nervous system and reproductive system damage.
Target organs: Skin, PNS, lung, kidneys, liver, brain, reproductive system.

ORL-RAT LD_{50}: 25 g/kg
IHL-RAT LC_{50}: 48,000 ppm/4H
SKN-RBT LD_{50}: N.A.

SECTION 12 — ECOLOGICAL INFORMATION

Toxic to aquatic life. EC50 Daphnia 3878 mg/L/48H

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.
Flinn Suggested Disposal Method #18b is one option.

SECTION 14 — TRANSPORT INFORMATION

UN number: UN1208 Shipping name: hexanes. Hazard class: 3, Flammable liquids. Packing group: II

SECTION 15 — REGULATORY INFORMATION

TSCA listed.

SECTION 16 — OTHER INFORMATION

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N.A. = Not available, not all health aspects of this substance have been fully investigated.
N/A = Not applicable

Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.

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