
SAFETY DATA SHEET

Section 1: IDENTIFICATION**Product Name: Hexane****Product Code: 03270****SDS Date: 05/03/2020****Use: Industrial****General Information: 314-644-1300****Emergency 24 hrs: CHEMTREC:****800-424-9300****Section 2: HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW****GHS Classification:**

Flammable liquids (Category 2),

Skin irritation (Category 2),

Reproductive toxicity (Category 2),

Specific target organ toxicity - single exposure (Category 3),

Specific target organ toxicity - repeated exposure, inhalation (Category 2),

Aspiration hazard (Category 1),

Acute aquatic toxicity (Category 2)

Chronic aquatic toxicity (Category 2)

GHS Labeling**Symbol:****Signal Word: Danger****Hazard Statements:**

Highly flammable liquid and vapor.

May be fatal if swallowed.

Causes skin irritation.

May cause drowsiness or dizziness.

Suspected of damaging fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure if inhaled.
Toxic to aquatic life with long lasting effects.

Precautionary Statements:

Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

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.

Take precautionary measure against static discharge. Use only non-sparking tools.

Do not breathe mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling.

Response:

Get medical advice/attention if you feel unwell.

If exposed or concerned: Get medical advice/attention.

IF SWALLOWED: Call a poison center/doctor immediately. Do NOT induce vomiting.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention.

IF ON SKIN(or hair): Take off immediately all contaminated clothing. Rinse skin with water shower.

If skin irritation occurs: Get medical advice/attention.

In case of fire: Use dry chemical, CO₂, water spray (fog) or foam to extinguish. Take off contaminated clothing and wash it before reuse.

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

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

Potential Health Effects:

Eyes	Causes eye irritation.
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness and dizziness.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Ingestion	Toxic if swallowed. Aspiration hazard if swallowed – can enter lungs and cause damage.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#	Component	CAS Reg #	Synonyms	Amount (%)
1	Naphtha (petroleum), hydrotreated light	64742-49-0	Hydrotreated light straight run (petroleum)	30-40
2	Cyclohexane	110-82-7	benzene hexahydride; hexahydrobenzene; hexamethylene; hexanaphthene	5-10
3	n-hexane	110-54-3	Hexyl hydrite, normal-hexane	40-50

All concentrations are in percent by weight unless otherwise indicated. Components not listed are either non-hazardous or are below reportable limits.

Section 4: FIRST AID MEASURES**Emergency first aid procedures by route of exposure:**

Eyes	Rinse with plenty of water for at least 15 minutes, seek medical attention.
Inhalation	Remove source of contamination or move to fresh air. If affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Skin	If irritation is experienced, flush with water. If irritation persists, get medical attention.
Ingestion	Do NOT induce vomiting. If the material is swallowed, get medical attention.

General advice: Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Section 5: FIRE FIGHTING MEASURES**Suitable Extinguishing Media:**

Small Fire: Use dry chemical, CO₂, water spray or regular foam.

Large Fire: Use water spray, foam or regular foam. DO NOT use straight streams. Consider containers in the area. Cool containers with flooding amounts of water until well after the fire is out.

Products of Combustion:

Emits toxic fumes (carbon oxides), Vapors are heavier than air and may travel long distances along the ground to ignition source and flash back.

Fire Fighting Equipment/Instructions:

Wear protective clothing and equipment, including self-contained breathing apparatus, protective clothing, including eye protection and boots.

Special Properties: Flammable Liquid! This material releases vapors. When mixed with air in certain proportions and exposed to an ignition source, its vapor can cause a flash fire. Use only with adequate ventilation. Vapors are heavier than air and may travel long distances along the ground to an ignition source and flash back. A vapor and air mixture can create an explosion hazard in confined spaces such as sewers.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Protection: For large spills wear gloves, Tyvek suits, safety glasses, and appropriate NIOSH approved respiratory protection. Keep unnecessary personnel away. Eliminate all sources of ignition or flammables.

Environmental Precautions: Prevent discharge to open bodies of water, municipal sewers, and watercourses. Any release into the environment may be subject to federal/national or local reporting requirements.

Methods for Clean-up: Ventilate area of leak or spill. Absorb spill with non-combustible material, then place in a suitable container for disposal. Only use spark-proof tools to sweep or scrape up. Clean surfaces thoroughly with water to remove residual contaminations. Dispose of all waste and clean up materials in accordance with regulations.

Section 7: HANDLING AND STORAGE

Handling: Keep away from heat, sparks and flame. Use only with adequate ventilation. Avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment.

Storage: Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Ground all equipment container this material. Avoid all possible sources of ignition (spark or flame).

Section 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure Guidelines

No.	Component	OSHA		ACGIH	
		TWA	STEL	TWA	STEL
1	Hexanes	500 ppm	Not Avail	50 ppm	Not Avail

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the workstation.

Personal Protective Equipment (PPE)

Eyes	Face shield and safety glasses or goggles.
Inhalation	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. If exposure levels are excessive, use an approved respirator.
Skin	Wear gloves that are appropriate for the task. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other Protective Equipment:

Facilities storing or utilizing this material should be equipped with eyewash and safety shower facilities.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance, State: Liquid

Color: Clear. Colorless.

Odor: Hydrocarbon (Gas Like odor)

pH: Not Available

Vapor Density: 3.0

Boiling Point/Range: 62.8 to 73.9 °C (145 to 165°F)

Vapor Pressure: 124 mmHg

Melting Point/freezing point: -139°F

Flammability Properties

Flash Point: -7 °F (-22 °C) Closed Cup

Auto-ignition Temperature: 225 °C (437 °F)

Lower Explosion Limit: 1.1%

Upper Explosion Limit: 7.5%

Flammability Classification: Flammable Liquid Class IB

Solubility (in water) negligible in water

Specific Gravity @ 60 °F: 0.68

Molecular Weight: 86.2

Evaporation Rate: 5.2

Octanol/Water partition coefficient (Kow): 3.90

Auto-ignition temperature: 225°C

Decomposition temperature: Not Available

Viscosity: Not Available

Section 10: STABILITY AND REACTIVITY

Stability: This material is considered stable at ambient temperatures.

Condition to Avoid: Flames, sparks, electrostatic discharge, heat and other ignition sources.

Incompatible Materials: This product reacts with strong acid, strong bases, and oxidizing agents.

Hazardous Decomposition: Upon decomposition, this product evolves carbon monoxide, carbon dioxide, and/or low weight hydrocarbons.

Hazardous Reactions: This product will not undergo polymerization.

Section 11: TOXICOLOGICAL INFORMATION**ACUTE EFFECTS:****Component Analysis LD50**

n-hexane (CAS #110-54-3)

LC50 Inhalation Gas Rat 4800 ppm 4 hours,

LD50 Oral Rat 15840 mg/kg

Naphtha (petroleum) hydrotreated light (CAS #64742-49-0)

LD50 Dermal Rat >2000 mg/kg

LD50 Oral Rat >5000 mg/kg

Cyclohexane (CAS #110-82-7)

LD50 Dermal Rabbit >180000mg/kg

LD50 Oral Rat 6240 mg/kg

CHRONIC EFFECTS:

Carcinogenic Effects: No component listed by IARC, ACGIH, NTP, or OSHA.

Mutagenic Effects: Not Available.

Teratogenic Effects: Not Available

Developmental Toxicity: Not Available

Reproductive Toxicity: Overexposure may cause reproductive disorder(s) based on tests with laboratory animals. Suspected human reproductive toxicant. Suspected of damaging fertility.

Symptoms via exposure routes:

Eyes	Redness, blurred vision, tearing.
Inhalation	Lung irritation, chest pain, pulmonary edema, giddiness, irritation, dizziness, drowsiness, headache, unconsciousness.
Skin	Defatting, dermatitis, drying redness.
Ingestion	Intestinal discomfort, central nervous system depression, slurred speech, slowed reaction time, headache, unconsciousness. ACUTE ASPIRATION HAZARD

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: n-hexane (CAS #110-54-3)

Acute LC50 2500 IJg/1 Fresh water Fish Pimephales promelas 96 hours

Ecotoxicity: Cyclohexane (CAS #110-82-7)

Acute LC50 4530 1-1911 Fresh water Fish - Plmephales promelas 96 hours

Section 13: DISPOSAL CONSIDERATIONS

Dispose of contents/containers in accordance with local/regional/national/international regulations.

Section 14: TRANSPORT INFORMATION

Proper Shipping Name: Hexanes

Hazard Class: 3

Identification No.: UN1208

Packing Group: II

Label: Flammable Liquid

Section 15: REGULATORY INFORMATION

TSCA Inventory This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

SARA 302/304 No components were identified.

SARA 313: n-Hexane

CERCLA No components were identified.

SARA 311/312 Hazard: This material would be classified under the following hazard categories: Fire, Acute Health Hazard, Chronic Health Hazard.

California Proposition 65 This material may contain the following components which are known to the State of California to cause cancer, birth defects or other reproductive harm, and may be subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5): n-Hexane.

Section 16: OTHER SUPPLEMENTAL INFORMATION

HAZARD	HMIS	NFPA
Toxicity	2	2
Fire	3	3
Reactivity	0	0

Disclaimer:

The information and recommendations contained in the Safety Data Sheet (SDS) are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. The information and recommendations set forth herein are presented in good faith and believed to be correct as of this date hereof.

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