

# Safety Data Sheet

#1971

according to OSHA Hazard Communication  
29 CFR Part 1910.1200

## SECTION 1. Identification

Product Code 10004

Product Name: Heptane

Supplied by: EMCO Chemical Distributors, Inc.  
8601 95th Street  
Pleasant Prairie, Wisconsin 53158  
(262) 427-0400  
E-Mail: [information@emcochem.com](mailto:information@emcochem.com)

24 hr. Emergency:  
CHEMTREC: 1-800-424-9300  
International: +1-703-527-3887

NOTE: CHEMTREC emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals

## SECTION 2. Hazard(s) Identification

\*\*\* EMERGENCY OVERVIEW \*\*\*: Highly flammable liquid and vapor. May be fatal if swallowed and enters airway.

### GHS Classification

Asp. Tox. 1, Flam. Liq. 2, Skin Irrit. 2, STOT SE 3 NE

### Symbol(s) of Product



### Signal Word

Danger

### GHS HAZARD STATEMENTS

Flammable Liquid, category 2	H225	Highly flammable liquid and vapor.
Aspiration Hazard, category 1	H304	May be fatal if swallowed and enters airways.
Skin Irritation, category 2	H315	Causes skin irritation.
STOT, single exposure, category 3, NE	H336	May cause drowsiness or dizziness.

### GHS PRECAUTIONARY STATEMENTS

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician
P302+P352	IF ON SKIN: Wash with plenty of water
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor/physician if you feel unwell.

P321	Specific treatment (see first aid section on this label).
P331	Do NOT induce vomiting.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use appropriate method to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

### SECTION 3. Composition/Information on Ingredients

Chemical Name	CAS-No.	Wt. %	GHS Symbols	GHS Statements
Naphtha (petroleum), hydrotreated light	64742-49-0	75-100	GHS02-GHS07-GHS08	H225-304-315-336

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

### SECTION 4. First-Aid Measures



**FIRST AID - EYE CONTACT:** Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering upper lids. Get medical attention promptly. Remove contact lenses if worn.

**FIRST AID - SKIN CONTACT:** Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately and clean shoes before reuse.

**FIRST AID - INHALATION:** Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention.

**FIRST AID - INGESTION:** Small amounts which accidentally enter mouth should be rinsed out until taste of it is gone. DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician. To prevent aspiration, keep head below knees. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband.

### SECTION 5. Fire-Fighting Measures

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Highly flammable liquid and vapor. Vapors/dust may cause flash fire or explosion. Vapors can travel to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. Also, do not reuse container without commercial cleaning or reconditioning.

**SPECIAL FIREFIGHTING PROCEDURES:** As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Do not use water jet (frothing possible). Water spray to cool containers or protect personnel. Use with caution. Water runoff can cause environmental damage. Dike and collect water used to fight fire.

**EXTINGUISHING MEDIA:** Carbon Dioxide, Dry Chemical, Foam, Water Fog

### SECTION 6. Accidental Release Measures

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Wear appropriate personal protective equipment. (See Exposure Controls / Personal Protection Section.) Eliminate all ignition sources. Prevent additional discharge of material if able to do so safely. Do not touch or walk through spilled material. Avoid runoff into storm sewers and ditches which lead to waterways. Ventilate spill area. Stay upwind of spill. Collect spilled materials for disposal. Use only non-combustible material for clean-up. Use clean, non-sparking tools to collect absorbed materials. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

## SECTION 7. Handling and Storage



**HANDLING:** Use only in a well ventilated area. Avoid breathing vapor, fumes or mist. Avoid contact with eyes, skin, and clothing. When transferring, follow proper grounding procedures. Use spark-resistant tools. Do not load into compartments adjacent to heated cargo. Use explosion proof equipment. Always open containers slowly to allow any excess pressure to vent. Follow all MSDS/label precautions even after containers are emptied because they may retain product residues.

**STORAGE:** Keep away from heat, sparks, and flame. Containers can build up pressure if exposed to heat (fire). Store containers in a cool, well ventilated place. Keep container closed when not in use. Protect from direct sunlight. Static Discharge, materials can accumulate static charges which can cause an incendiary electrical discharge. Material is a static accumulator which has the potential of forming ignitable vapor-air mixtures in storage tanks.

## SECTION 8. Exposure Controls/Personal Protection

### Ingredients with Occupational Exposure Limits

<u>Chemical Name</u>	<u>ACGIH TLV-TWA</u>	<u>ACGIH-TLV STEL</u>	<u>OSHA PEL-TWA</u>	<u>OSHA PEL-CEILING</u>
Naphtha (petroleum), hydrotreated light	400 ppm	500 ppm	500 ppm	N.D.

### Personal Protection



**RESPIRATORY PROTECTION:** A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.



**SKIN PROTECTION:** Wear impervious gloves to prevent contact with the skin. Wear long sleeves when contact is likely to occur. Wear protective gear as needed - apron, suit, boots.



**EYE PROTECTION:** Wear safety glasses with side shields (or goggles) and a face shield.



**OTHER PROTECTIVE EQUIPMENT:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.



**HYGENIC PRACTICES:** Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating.

## SECTION 9. Physical and Chemical Properties

<b>Appearance:</b>	Clear, transparent liquid	<b>Physical State:</b>	Liquid
<b>Odor:</b>	Hydrocarbon solvent odor	<b>Odor Threshold:</b>	N.D.
<b>Density, g/cm3:</b>	0.698	<b>pH:</b>	N.D.
<b>Freeze Point, °F:</b>	N.D.	<b>Viscosity:</b>	N.D.
<b>Solubility in Water:</b>	Insoluble	<b>Explosive Limits, vol%:</b>	1.0 - 6.7
<b>Boiling Range, °F:</b>	201 - 210	<b>Flash Point, °F:</b>	16
<b>Evaporation Rate:</b>	0	<b>Auto-ignition Temp., °F:</b>	N.D.
<b>Vapor Density:</b>	3.4	<b>Vapor Pressure:</b>	437.5 mm Hg [68 °F]

(See "Other information" Section for abbreviation legend)

## SECTION 10. Stability and Reactivity

**STABILITY:** No Information

**CONDITIONS TO AVOID:** Avoid impact, friction, heat, sparks, flame and source of ignition.

**INCOMPATIBILITY:** Prevent contact with oxidizing materials.

**HAZARDOUS DECOMPOSITION PRODUCTS:** During combustion carbon monoxide may be formed. During combustion carbon dioxide may be formed.

**HAZARDOUS POLYMERIZATION:** No Information

## SECTION 11. Toxicological Information



### Information on Toxicological Effects

**Primary Route(s) of Entry:** Eye Contact, Ingestion, Inhalation, Skin Contact

**EFFECTS OF OVEREXPOSURE - INHALATION:** Vapors can cause irritation to the respiratory tract. May cause central nervous system depression. Adverse symptoms may include the following: nausea or vomiting, headache, drowsiness/fatigue, dizziness/vertigo, unconsciousness. The symptoms can include the loss of memory, the loss of intellectual capacity and the loss of coordination.

**EFFECTS OF OVEREXPOSURE - SKIN CONTACT:** Causes skin irritation. Causes defatting of the skin which may cause dryness. Adverse symptoms may include redness, dryness and cracking. Personnel with pre-existing skin disorders should avoid contact with this product. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

**EFFECTS OF OVEREXPOSURE - EYE CONTACT:** Contact with the eye may cause mild irritation.

**EFFECTS OF OVEREXPOSURE - INGESTION:** May be fatal if swallowed and enters airway. Aspiration of this material will cause severe lung injury, chemical pneumonitis, pulmonary edema or death. May cause central nervous system depression. May cause nausea and vomiting.

**EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:** Overexposure may cause nervous system damage. May cause delayed lung damage. Exposure to high concentrations of this material may be associated with cardiac sensitization. Repeated or prolonged overexposure to solvents can cause brain or other nervous system damage. Significant exposure to this chemical may adversely affect people with chronic disease of the respiratory system, skin, and/or eyes. Significant exposure to this chemical may adversely affect people with chronic disease of the central nervous system. Chronic exposure may result in irritation of mucous membranes, headaches, and/or symptoms of CNS depression such as drowsiness and lack of concentration.

### Carcinogenicity

<u>CAS-No.</u>	<u>Name</u>	<u>IARC</u>	<u>NTP</u>
64742-49-0	Naphtha (petroleum), hydrotreated light	3- Not classifiable as to its carcinogenicity to humans.	Not Listed

### Acute Toxicity Values

The acute effects of this product have not been tested. Data on individual components are tabulated below:

<u>CAS-No.</u>	<u>Name</u>	<u>Oral LD50, mg/kg</u>	<u>Dermal LD50, mg/kg</u>	<u>Vapor LC50, mg/L</u>
64742-49-0	Naphtha (petroleum), hydrotreated light	>5000	>2000	>20

## SECTION 12. Ecological Information

**ECOLOGICAL INFORMATION:** No Information

## SECTION 13. Disposal Considerations

For more guidance and information contact our Waste Services Division at (262) 658-4000.



Always dispose of any waste in accordance with all local, state, and federal regulations.

**DISPOSAL METHOD:** Dispose of waste in accordance with all local, state and federal regulations.

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASE OR SPILLED:** Wear appropriate personal protective equipment. (See Exposure Controls / Personal Protection Section.) Eliminate all ignition sources. Prevent additional discharge of material if able to do so safely. Do not touch or walk through spilled material. Avoid runoff into storm sewers and ditches which lead to waterways. Ventilate spill area. Stay upwind of spill. Collect spilled materials for disposal. Use only non-combustible material for clean-up. Use clean, non-

sparkling tools to collect absorbed materials. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

## SECTION 14. Transport Information

DOT Proper Shipping Name:	Heptanes	Packing Group:	II
DOT Hazard Class:	3	Hazard SubClass:	No Information
DOT UN/NA Number:	UN1206	Resp. Guide Page:	128

## SECTION 15. Regulatory Information

### U.S. Federal Regulations:

#### CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Fire Hazard, Acute Health Hazard

#### SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

<u>Chemical Name</u>	<u>CAS-No.</u>
n-hexane	110-54-3
Toluene	108-88-3
Ethylbenzene	100-41-4
Benzene	71-43-2
Cumene	98-82-8
Naphthalene	91-20-3

#### TOXIC SUBSTANCES CONTROL ACT:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

<u>Chemical Name</u>	<u>CAS-No.</u>
Naphthalene	91-20-3

### U.S. State Regulations:

#### NEW JERSEY RIGHT-TO-KNOW:

The following materials are non-hazardous, but are among the top five components in this product.

No NJ Right-To-Know components exist in this product.

#### PENNSYLVANIA RIGHT-TO-KNOW

The following non-hazardous ingredients are present in the product at greater than 3%.

No PA Right-To-Know components exist in this product.

#### CALIFORNIA PROPOSITION 65 CARCINOGENS

Warning: The following ingredients present in the product are known to the state of California to cause Cancer.

<u>Chemical Name</u>	<u>CAS-No.</u>
Ethylbenzene	100-41-4
Benzene	71-43-2
Cumene	98-82-8
Naphthalene	91-20-3

**CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS**

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

<u>Chemical Name</u>	<u>CAS-No.</u>
n-hexane	110-54-3
Toluene	108-88-3
Benzene	71-43-2

**International Regulations: As follows -****CANADIAN WHMIS:**

This SDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

**WHMIS Class:** No Information

**SECTION 16. Other Information**

**Revision Date:** 9/27/2024 **Supersedes Date:** 6/9/2021

**Datasheet produced by:** EH&S - Regulatory Department

**HMIS Ratings:**

Health:	2	Flammability:	3	Reactivity:	0	Personal Protection:	<input checked="" type="checkbox"/>
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**Volatile Organic Compounds, gr/ltr:** 696

**DISCLAIMER:** THE VOLATILE ORGANIC COMPOUND (VOC) CONTENT REPORTED HEREIN, IF ANY, IS BASED ON A MATERIAL VOC CALCULATION. NOTE THAT SEVERAL METHODS ARE USED FOR CALCULATING VOC CONTENT AND THAT STANDARDS/ REQUIREMENTS REGARDING VOC CONTENT VARY BY LOCATION/JURISDICTION. ACCORDINGLY, EMCO MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, REGARDING THIS MATERIAL'S COMPLIANCE WITH VOC STANDARDS/ REQUIREMENTS APPLICABLE IN LOCATIONS/JURISDICTIONS WHERE THIS MATERIAL MAY BE SOLD OR USED.

**Text for GHS Hazard Statements shown in Section 3 describing each ingredient:**

H225	Highly flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.

**Icons for GHS Pictograms shown in Section 3 describing each ingredient:**

GHS02



GHS07



GHS08



Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined, N.I. - No Information

The information on this SDS was obtained from sources which we believe to be reliable. However, the information provided is without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information and recommendations are offered for the user's consideration and examination and should be used to make an independent determination of the methods to safeguard workers and the environment. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For these reasons we do not assume responsibility and expressly disclaim any liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS may not be applicable. It is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.