



**COLUMBUS CHEMICAL INDUSTRIES INC.**

P.O. BOX 8  
 COLUMBUS, WISCONSIN 53925-0008  
 (920) 623-2140  
 FAX (920) 623-2577

**Material Safety Data Sheet**

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910 1200. Standard must be consulted for specific requirements

**U.S. Department of Labor**

Occupational Safety and Health Administration  
 (Non-Mandatory Form)  
 Form Approved  
 OMB No. 1218-0072

**IDENTITY** (as Used on Label and List)

**n-Heptane**

**Note:** Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

**Section I**

Manufacturers /Distributor Address Number Street City State and Zip Code

Columbus Chemical Industries, Inc.

N4335 Temkin Road

Columbus, WI 53925-0008

Emergency Telephone Number

CHEMTREC 1-800-424-9300

Telephone Number for Information

920-623-2140

Date Prepared

10-20-2005

Signature of Preparer (optional)

**Section II - Hazardous Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity, Common Name(s))	CAS #	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
n-Heptane*	142-82-5	500 ppm	400 ppm	STEL 500 ppm	

\*100 % volatile

**Section III - Physical/Chemical Characteristics**

Boiling Point	98 °C (209 °F)	Specific Gravity (H <sub>2</sub> O = 1)	0.684
Vapor Pressure (mm Hg) @ 20 °C (68 °F)	40 mmHg	Melting Point	-91 °C (-132 °F)
Vapor Density (AIR = 1)	3.5	Evaporation Rate (Butyl Acetate = 1)	Not Available

Solubility in Water

Negligible.

Appearance and Odor

Opaque, light straw-colored liquid with odor of light hydrocarbons.

**Section IV Fire and Explosion Hazard Data**

Flash Point (Method Used)	Flammable Limits	LEL	UEL
-4°C (25°F); (Tagliabue closed cup)		1.0%	6.7%

Extinguishing Media

Carbon dioxide, dry chemical powder, appropriate foam, water spray.

Special Fire Fighting Procedures

In the event of a fire, wear full protective clothing and NIOSH/MSHA-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Unusual Fire and Explosion Hazards

Emits toxic fumes under fire conditions. Vapor can cause flash fire. Vapors are heavier than air and may travel long distances along the ground to an ignition source and flash back.

**Section V Reactivity Data**

Stability	Unstable		Conditions to Avoid	Heat, ignition sources, fire.
	Stable	X		

**Incompatibility Materials to Avoid**

extreme heat, strong oxidizing agents and strong oxidizing conditions.

**Hazardous Decomposition or Byproducts**

Carbon monoxide, carbon dioxide.

**Hazardous Polymerization****Conditions to Avoid**

	May Occur		N/A
	Will Not Occur		

**Section VI Health Hazard Data****Routes of Entry****Inhalation ?****Skin ?****Ingestion ?**

	Yes		Yes		Yes
--	-----	--	-----	--	-----

**Health Hazards (Acute and Chronic)**

SKIN: May cause irritation and may be harmful if absorbed through the skin. EYE CONTACT: May cause eye

irritation. INHALATION: Breathing high concentrations of vapor can cause irritation, blindness, central nervous effects,

cardiac arrest, respiratory inefficiency and lung toxicity. INGESTION: Progressive central nervous effects including brain.

**Carcinogenicity****NTP****IARC Monographs****OSHA REGULATED?**

	Not Listed		Not Listed		Not Listed
--	------------	--	------------	--	------------

**Signs and Symptoms of Exposure.**

Burning sensation of mucous membranes. Nausea, vomiting, staggering gait, dizziness, drowsiness, unconsciousness, delirium,

disorientation, weakness, headache, narcosis, vertigo, convulsions, coma, difficulty breathing, eye irritation, skin irritation.

**Medical Conditions Generally Aggravated by Exposure**

Persons with preexisting central nervous system (CNS) disease, neurological conditions, skin

disorders, liver or kidney disfunction, or chronic respiratory diseases should avoid exposure.

**Emergency and First Aid Procedures**

INGESTION: If swallowed, call a physician immediately, do not induce vomiting. Do

not leave victim unattended. EYES: In case of contact, immediately flush with large amounts of water for at least 15

minutes. Call physician. INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration.

If breathing is difficult, give oxygen. Call physician. SKIN: Immediately wash skin with soap and water

**Section VII Precautions for Safe Handling and Use****Steps to be Taken in Case Material is Released or Spilled**

Evacuate area. Wear NIOSH/MSHA-approved respirator, chemical-resistant goggles, rubber

boots, apron and heavy rubber gloves. Contain spill with dikes, sand or noncombustible absorbent material. Sweep

up and place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

Waste Disposal Method Dispose in accordance with all Federal, state, and local regulations.

**Precautions to be Taken in Handling and Storing**

Keep in tightly closed plainly-labelled containers, stored in a cool, dry, ventilated area. Protect

against physical damage. Keep away from heat, sparks and flame. Maintain adequate ventilation. Ground all

equipment containing this material.

Other Precautions Containers, even when empty, will retain residue and vapors which can ignite with explosive force.

Always obey hazard warnings and handle empty containers as if they were full.

**Section VII Control Measures****Respiratory Protection (Specify Type)**

NIOSH/MSHA-approved respirator with organic vapor cartridge.

**Ventilation**

Local Exhaust Mandatory.

Special Eyewash nearby.

Mechanical (General) Recommended.

Other Safety shower nearby.

Protective Gloves Appropriate chemical resistant gloves

Eye Protection Chemical Safety goggles.

Other Protective Clothing or Equipment Apron or lab coat

Work /Hygienic Practices Contact lenses should not be worn when working with this material. Maintain eye wash

fountain and quick-drench facilities in work area. Avoid all unnecessary exposure to the chemical substance and

ensure prompt removal from skin, eyes and clothing. Wash thoroughly after handling. Avoid breathing vapor.

Columbus Chemical Industries, Inc. ("Columbus") believes that the information herein is factual but it is not intended to be all inclusive. The information relates only to the specific Material designated and does not relate to its use in combination with other materials or its use as to any particular process. Because safety standards and regulations are subject to change and because Columbus has no continuing control over the Material, those handling, storing or using the Material should satisfy themselves that they have current information regarding the particular way the Material is handled, stored and used and that the same is done in accordance with federal, state and local law. COLUMBUS MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING (WITHOUT LIMITATION) WARRANTIES WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN OR WITH RESPECT TO FITNESS FOR ANY PARTICULAR