



COLUMBUS CHEMICAL INDUSTRIES INC.

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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)

Hexanes

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	Emergency Telephone Number
Columbus Chemical Industries, Inc.	CHEMTREC 1-800-424-9300
N4335 Temkin Road	Telephone Number for Information
Columbus, WI 53925-0008	920-623-2140
	Date Prepared
	04/27/2004
	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)
Hexanes* **	None	500 ppm	500 ppm		>99%

*Subject to the reporting requirements of SARA Title III Section 313.

** This product is a mixture of hexane isomers

Section III - Physical/Chemical Characteristics

Boiling Point	69 °C (156 °F)	Specific Gravity (H ₂ O = 1)	0.659
Vapor Pressure (mm Hg) @ 20 °C (68 °F)	120 mmHg	Melting Point	-95 °C (-135 °F)
Vapor Density (AIR = 1)	3.0	Evaporation Rate (Butyl Acetate = 1)	>1

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
-22 °C (-7°F); (Tagliabue closed cup)		1.1%	7.5%

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. Autoignition Temperature 225 °C (437 °F).

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?
	No	No	No

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 large amounts of 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 Rubber boots, fire-retardant garments and face shield.

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.

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