



COLUMBUS CHEMICAL INDUSTRIES INC.

P.O. BOX 8
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 (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-Pentane

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

01-29-2004

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)
Pentane	109-66-0	2950 mg/m3	600 ppm TWA	120 ppm 10hr TWA	>99%
Isopentane	78-78-4	Not established	Not established	Not Available	<1%

SYNONYMS: Amyl Hydride

Section III - Physical/Chemical Characteristics

Boiling Point	36°C (97 °F)	Specific Gravity (H ₂ O = 1) @ 15.5 °C (60 °F)	0.6
Vapor Pressure (mm Hg) @ 25 °C	514 mmHg	Melting Point (-202 °F)	-130 °C
Vapor Density (AIR = 1)	2.49	Evaporation Rate (Butyl Acetate = 1)	28.6

Solubility in Water

9.9 g in 100 kg at 25 °C

Appearance and Odor

Colorless liquid with gasoline like odor

Section IV Fire and Explosion Hazard Data

Flash Point (Method Used) <-40 °C (-40 °F; Setaflash closed cup)	Flammable Limits	LEL	UEL
		1.5%	7.8%

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: 260 °C (500 °F).

Section V Reactivity Data

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

Incompatibility Materials to Avoid
strong oxidizing agents

Hazardous Decomposition or Byproducts

Carbon monoxide, carbon dioxide.

Hazardous Polymerization**Conditions to Avoid**

	May Occur		Contact with peroxides
	Will Not Occur	X	

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

	Yes		Yes
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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 respiratory irritation, 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
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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

breathing apparatus and full protective clothing. Contain spill with dikes, sand or noncombustible absorbent material.

Pick up, 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-labeled 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. Avoid allowing material to enter streams or sewers.

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. **FLAMMABLE!!**

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

NIOSH/MSHA-approved respirator with organic vapor cartridge.

Ventilation

Local Exhaust Necessary.

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-retardent 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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