

Board

MAY 1 6 2005

Public Registry

# MATERIAL SAFETY DATA SHEET

# HEXANE

PRODUCT CODE NUMBER(S): 5600-1, 5600-2, 5600-3, 5600-4, 5601-2, 5601-7, 5602-2, 5603-7, 5604-2, 5605-1, 5604-4

### PRODUCT IDENTIFICATION

Chemical Name and Synonyms: Hexane; Normal

hexane; Hexanes

Chemical Family: Aliphatic hydrocarbon

Chemical Formula: C<sub>6</sub>H<sub>14</sub>
Product Use: Laboratory solvent
Manufacturer's Name and Address:
Caledon Laboratories Ltd.

40 Armstrong Avenue

Georgetown, Ontario, L7G 4R9

Telephone No: (905) 877-0101 Fax No: (905) 877-6666

Emergency Telaphone No: CANUTEC (613) 996-6666

## HAZARDOUS INCREDIENTS OF MATERIALS

Ingredients	26	TLV Units	CAS No.
n-Hexaiiu	>85	50 ppm	110-54-3
Methylpentanes, may include 2-methylpenta		500 ppm	107-83-5
Methylcyclopentane	<10	Not established	96-37-7

### PHYSICAL DATA

Physical State: Liquid

Odour and Appearance: Clear, colourless volatile liquid,

gasoline-like odour

Odour Threshold (ppm): 64-244 ppm. Poor warning

properties, odour threshold exceeds TLV.

Vapour Pressure (mm Hg): 124 mm Hg at 20°C

Vapour Density (Air = 1): 2.97

Evaporation Rate: 0.3 (Ethyl ether = 1)

Bolling Point (°C): 67-69°C Freezing Point (°C): -95°C

pH: Not applicable

Specific Gravity: 0.66 at 20°C

Coefficient of Water/Oil distribution: Not available

#### SHIPPING DESCRIPTION

UN: 1208 T.D.G. Class: 3.1 Pkg. Group: //

## REACTIVITY DATA

Chemical Stability: Stable

Incompatibility with other substances: Oxygen and strong oxidizing agents can increase risk of fire and explosion.

Reactivity: Avoid heat, sparks and open flame. Confined

materials may explode upon heating.

Hazardous Decomposition Products: COx

#### FIRE AND EXPLOSION DATA

Flammability: Flammable, Readly ignited in most ambient conditions. Vapour is heavier than air and may "flash back" to an ignition source.

Extinguishing Media: Dry chemical, foam, or carbon dioxide. Water may be used to cool containers, but is not

suitable for tighting fire involving this material.
Flash Point (Method Used): -21°C (TCC)

Autoignition Temperature: 225℃

Upper Flammable Limit (% by volume): 7.5 Lower Flammable Limit (% by volume): 1.1 Hazardous Combustion Products: CO.

discharge.

## TOXICOLOGICAL PROPERTIES AND HEALTH DATA

## Toxicological Data:

LD<sub>50</sub>: (rat, oral) 28,710 mg/kg; (dermal, rabbit) >2g/kg

LC<sub>50</sub>: (inh, mouse) 35,000 ppm/1h

#### Effects of Acute Exposure to Product:

Inhaled: 10 minuto exposure at 1,500 ppm can cause irritation of respiratory tract, nausea, and headache; 10 minutes at 5,000 ppm can cause dizziness, drowsiness. Massive exposures can cause central nervous system depression, unconsciousness and death.

In contact with skin: May cause mild initation. Can be absorbed through skin in harmful amounts.

In contact with eyes: Vapour can cause irritation; liquid can cause pain and irritation.

Ingested May cause vomiting, headache, depression and swelling of the intestines. May be aspirated into the lungs if swallowed, which may result in pulmonary edema and chemical pneumonitis.

Effects of Chronic Exposure to Product: Causes harm to the nervous system producing numbness or tingling in the extremities, spasms in the legs, tiredness, muscle weakness and more severe nerve damage. Penpheral neuropathy developed within 7, months in mice at 250 ppm. Methyl pentanes have produced kidney damage in male rats only, but no comparable health hazard for kidney