

MATERIAL SAFETY DATA SHEET

Decahydronaphthalene (Decalin)

SECTION 1 . Product and Company Identification

Product Name and Synonym: Decahydronaphthalene (Decalin)
Product Code: D2100
Material Uses:
Manufacturer: Science Stuff
1104 Newport Ave
Austin, TX 78753
(512) 837-6020
Entry Date : 6/3/2013
Print Date: 6/3/2013
24 Hour Emergency Assistance : Chemtrec 800-424-9300
Canutec 613-996-6666

Health:	3
Flammability:	2
Reactivity:	1
Hazard Rating: Least Slight Moderate High Extreme 0 1 2 3 4 NA=Not Applicable NE=Not Established	

SECTION 2 HAZARD IDENTIFICATION

Keep away from heat and ignition sources. Harmful if swallowed. Avoid breathing vapors. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input type="checkbox"/>	Decahydronaphthalene (Decalin)	CAS# 91-17-8	100%	W/W	Orl-rat LD50: 4170 mg/Kg

SECTION 4 FIRST AID MEASURES

Keep away from heat and ignition sources. Harmful if swallowed. Avoid breathing vapors. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

FIRST AID: SKIN: Remove contaminated clothing. Wash exposed area with soap and water. if irritation persists, seek medical attention.

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: Give several glasses of milk or water. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person.

SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Carbon Dioxide, dry chemical powder, or appropriate foam
Fire / Explosion Hazards: Vapor may travel considerable distance to source of ignition and flash back. Forms peroxides of unknown stability. Containers may explode in the heat if fire.
Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing

Decahydronaphthalene (Decalin)

to prevent contact with skin and clothing.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Absorb spill with inert material, then place in a chemical waste container. Remove all sources of ignition. Ventilate area and wash spill site after pickup is complete.

SECTION 7 HANDLING AND STORAGE

Keep away from heat and flame. Keep away from sources of ignition. Store in a tightly closed container. Keep under a nitrogen blanket.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: NIOSH/MSHA-approved respirator
Ventilation
Local Exhaust
Mechanical
Protective Gloves: Wear appropriate gloves to prevent skin exposure
Eye Protection: Goggles and Face Shield
Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:	-43°C	Percent Volatile by Volume:	>99
Boiling Point:	189 - 191 C	Evaporation Rate	Information not available
Vapor Pressure:	42 mm Hg @ 92°C	Evaporation Standard	
Vapor Density:	4.76	Auto Ignition Temp	250° C
Solubility in Water:	Insoluble	Lower Flamm. Limit in Air	0.7%
Appearance /Odors:	Clear, colorless liquid with turpentine-like odor	Upper Flamm. Limit in Air	4.9%
Flash Point:	135° F (57.2° C)		
Specific Gravity:	0.881 g/cm3		

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability: Stable
Conditions to Avoid: Prolonged exposure to heat and light.
Materials to Avoid: Strong oxidizers. It is volatile on contact with steam.
Hazardous Decomposition Products: Emits toxic fumes under fire conditions.
Hazardous polymerization: Will Not Occur

Decahydronaphthalene (Decalin)

Conditions to Avoid: None known

SECTION 11 Toxicological Information

SECTION 12 Ecological Information

SECTION 13 Disposal Considerations

SECTION 14 Transport Information

DOT Classification: Decahydronaphthalene, 3, UN1147, PG III

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

SECTION 15 Regulatory Information

SECTION 16 Additional Information

Harmful by contact, inhalation and ingestion. May be fatal if ingested. Do not induce vomiting. Give 2 cups of milk or water and seek immediate medical attention. Target organs: Liver and kidneys. Can cause dermatitis or defatting. Persons with pre-existing disorders may be more susceptible. May form explosive peroxides. Skin contact causes burns. Material is extremely destructive to the tissues of the mucous membranes and upper respiratory tract. Harmful if swallowed.

Flammability

Health

Reactivity

Revisions

NFPA

0.3

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