

# Scholar™ Chemistry

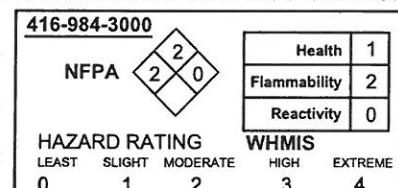
## MATERIAL SAFETY DATA SHEET

5100 W. Henrietta Rd.  
West Henrietta, NY 14586  
TEL: (866) 260-0501

9510006  
9510104 9510106  
MSDS No. 9510108 9510200  
Effective Date: May 28, 2003

### SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Naphthalene Flakes
Chemical Synonyms	Moth Flakes/Balls; White Tar; Tar Camphor
Formula	$C_{10}H_8$
CAS No.	91-20-3



### SECTION II DANGEROUS INGREDIENTS

Name	%	TLV Units
Naphthalene	98-100%	TWA: 10 STEL: 15 (ppm)

**WARNING! FLAMMABLE!**

### SECTION III PHYSICAL DATA

Melting Point (°C)	80°C	Specific Gravity (H <sub>2</sub> O = 1)	1.145 @ 20°C
Boiling Point (°C)	218°C (sublimes)	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	0.082 @ 77°F	Evaporation Rate (Butyl acetate =1)	1
Vapor Density (Air=1)	4.42		
Solubility in Water	Insoluble.		
Appearance & Odor	White crystalline flake or balls; "mothball" odor.		

### SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash point	79°C (TCC)	Flammable Limits in Air % by Volume	Lower 0.9%	Upper 5.9%
Firefighting Procedures	Flammable solid. Use dry chemical, CO <sub>2</sub> , alcohol foam, or water spray. In fire conditions, fire-fighters should wear an appropriate mask or a self-containing breathing apparatus.			

### Flammability and Explosion Hazards

Avoid use of water on molten Naphthalene, reaction between water and molten Naphthalene above 230°F is violent.

Autoignition Temperature: 526°C

### TDG

Class 4.1 Flammable solid. UN1334  
Class 9.2 Environmentally hazardous material.

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### SECTION V REACTIVITY DATA

NN0010

Chemical Stability	Yes <input checked="" type="checkbox"/>	If no, under what conditions?
	No <input type="checkbox"/>	
Incompatible with Other products	Yes <input checked="" type="checkbox"/>	May react or be incompatible with oxidizing agents, chromic anhydride.
	No <input type="checkbox"/>	

Hazardous Decomposition Products  
These products are carbon oxides.

Reactive under what conditions  
Reaction between water and molten Naphthalene above 230°F is violent.

### SECTION VI TOXICOLOGICAL PROPERTIES

Route of Entry	Ingestion. Inhalation. Skin.
TLV	TWA: 10 ppm STEL: 15 ppm
Toxicity for animals	Oral rat: LD50: >5000 mg/kg RETECS # QJ0525000
Chronic effects on humans	Repeated or prolonged exposure to the substance can produce target organ damage. Target organs: Blood, liver, kidneys, eyes, skin, central nervous system.

Acute effects on humans  
May be fatal if swallowed. May cause irritation to skin, eyes and mucous membranes.

### SECTION VII PREVENTIVE MEASURES

Waste Disposal	Discharge, treatment, or disposal may be subject to local laws. Consult your local or regional authorities.
Storage	Flammable materials should be stored in a separate safety storage cabinet or room. Keep away from heat. Keep away from sources of ignition.
Precautions	Keep away from heat. Keep away from sources of ignition. DO NOT ingest. If ingested, seek immediate medical attention. Do not breathe dust.
Spill or leak	Use appropriate tools to put the spilled solid in a convenient waste disposal container.
Protective Clothing	Safety glasses. Lab coat. Dust respirator.

### SECTION VIII FIRST AID MEASURES

Specific first aid measures  
Ingestion: Call physician or Poison Control Center immediately. Induce vomiting only if advised by the appropriate medical personnel. Eye contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention. Skin contact: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Inhalation: Move victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Allow victim to rest in a well ventilated area. Seek immediate medical attention.

### SECTION IX PREPARATION OF THE MSDS

Rev. No. 7 Date May 28, 2003 Approved Michael Raszeja