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MATERIAL SAFETY DATA SHEET

MSDS No.: NN0010
Revision Date: January 3, 2012
Approved by: James A. Bertsch

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Section 1 Chemical Product and Company Information

Product	NAPHTHALENE
Synonyms	White Tar; Tar Camphor

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

Section 2 Hazards Identification

Emergency Overview

WARNING! FLAMMABLE!

MAY BE FATAL IF SWALLOWED. IRRITANT TO SKIN, EYES AND MUCOUS MEMBRANES. Powders form explosive mixtures with air which may be ignited by a spark. When heated, this volatile solid gives off flammable vapors. Keep away from heat and open flame. Use with adequate ventilation. Target organs: Blood, liver, kidneys, eyes, skin, central nervous system.

0 = Minimal
1 = Slight
2 = Moderate
3 = Serious
4 = Severe

Health	1
Fire	2
Reactivity	0
Contact	1

HMIS *

Section 3 Composition / Information on Ingredients

Chemical Name	CAS #	%	TLV Units
Naphthalene	91-20-3	98-100%	TWA:10ppm STEL:15ppm (ACGIH 2001)

Section 4 First Aid Measures

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN CONTACT: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

General information: Use water spray to keep fire-exposed containers cool. In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Powders form explosive mixtures with air which may be ignited by a spark. Reaction between water and molten naphthalene above 230°F is violent. Avoid use of water on hot molten naphthalene.

Extinguishing Media: Sand, dry chemical, or CO2 should be used on surrounding fire. Do NOT use water on fire where molten naphthalene is present.

Flash Point: 174°F (79°C) TCC

Autoignition temperature: 526°C (979°F)

Explosion Limits: Lower: 0.9% **Upper:** 5.9%

0 = Minimal
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4 = Severe

NFPA



Section 6 Accidental Release Measures

Use proper personal protective equipment as indicated in Section 8. Remove all sources of ignition. Provide adequate ventilation. Recover for use if not contaminated. Use non-sparking tools. Wet-sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water after material pickup is complete. Avoid runoff into storm sewers and ditches which lead to waterways.

(2008 EMERGENCY RESPONSE GUIDEBOOK, (PHH50-ERG2008), GUIDE # 133)

Section 7 Handling & Storage FLAMMABLE STORAGE CODE RED

Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Handling: Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid ingestion. Do not inhale vapors, spray or mist. Wash thoroughly after handling. Remove and wash clothing before reuse.

Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources. Avoid exposure of molten material to water and moisture.

Section 8 Exposure Controls / Personal Protection

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

Section 9 Physical & Chemical Properties

Physical state: Solid.

Appearance: White flakes.

Odor: Mothball odor.

pH: N/A

Vapor pressure (mm Hg): 0.082 @ 77°F

Vapor Density (Air = 1): 4.42

Evaporation rate (n-Butyl acetate = 1): 1

Viscosity: N/A

Boiling point: 218°C (424°F) sublimes

Freezing / Melting point: 80°C (176°F)

Decomposition temperature: N/A

Solubility: Insoluble in water.

Specific gravity (H₂O = 1): 1.145 @ 20°C

Percent volatile (%): 98-100%

Molecular formula: C₁₀H₈

Molecular weight: 128.18

Section 10 Stability & Reactivity

Chemical stability: Stable

Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures, heat, sparks, open flame and other sources of ignition. Avoid contact with water.

Incompatibilities with other materials: Strong oxidizers, chromic anhydride.

Hazardous decomposition products: Carbon oxides.

Section 11 Toxicological Information

Effects of overexposure: Suspect cancer hazard. Risk of cancer depends on level and duration of exposure. Concentrations above 10 ppm may cause headache, vomiting, nausea and profuse sweating. High vapor or dust concentrations may cause eye irritation. Prolonged exposure to high levels of vapor or dust may result in corneal injury and blurring of vision. Prolonged or repeated skin contact may cause skin irritation. Ingestion of large doses may cause poisoning, causing cramps, nausea, vomiting and diarrhea. Exercise appropriate procedures to minimize potential hazards.

RTECS #: QJ0525000

ORL-RAT LD50: 490 mg/kg

SKN-RBT LD50: >20 mg/kg

IHL-RAT LC50: 10 ppm/6hour/105 week-intermittent

Section 12 Ecological Information

Data not yet available.

Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Section 14 Transport Information

UN/NA number: UN1334

Shipping name: Naphthalene, refined

Hazard class: 4.1

Packing group: III

Exceptions: Limited quantity equal to or less than 5 Kg.

Section 15 Regulatory Information

TSCA-listed, EINECS-listed (202-049-5), RCRA code U165, DSL-listed, Ca Prop 65-listed.

Section 16 Additional Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. * Hazardous Materials Industrial Standards.