Naphthalene



Section 1 Product Description

Product Name: Naphthalene

Recommended Use: Science education applications Moth flakes, White Tar; Tar Camphor Synonyms: Distributor: Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

DANGER









Flammable solid. Harmful if swallowed. Causes eye irritation. Suspected of causing cancer. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

GHS Classification:

Flammable Solid Category 1, Hazardous to the aquatic environment - Acute Category 1, Hazardous to the aquatic environment -Chronic Category 1, Serious Eye Damage/Eye Irritation Category 2B, Carcinogenicity Category 2, Acute Toxicity - Oral Category 4

Other Safety Precautions: IF exposed or concerned: Get medical advice/attention.

Composition / Information on Ingredients Section 3

Chemical Name CAS# % Naphthalene 91-20-3 100

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin Contact: After contact with skin, wash immediately with plenty of water.

Ingestion: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Firefighting Procedures Section 5

Extinguishing Media: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: May cause fire. Heating may cause an explosion.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6 Spill or Leak Procedures

Naphthalene Page 1 of 4

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Persons not wearing appropriate protective equipment should be excluded from area of spill until clean-up has been completed.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area. Collect spillage.

Section 7

Handling and Storage

Handling: Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open

flames/hot surfaces. – No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/.../ equipment. Wash thoroughly after handling. Do no eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. Keep container tightly closed in a cool, well-ventilated place. Keep away from combustible material. Do not breathe gas/fumes/vapor/spray. Avoid contact with skin and eyes. Take off immediately all contaminated clothing. Retained residue may make empty

containers hazardous.

Storage: Store locked up. Keep container tightly closed in a cool, well-ventilated place.

Storage Code: Red - Flammables. Store in approved flammable containers. Store away from oxidizing materials.

Section 8

Protection Information

 ACGIH
 OSHA PEL

 Chemical Name
 (TWA)
 (STEL)
 (TWA)
 (STEL)

 Naphthalene
 10 ppm TWA
 15 ppm STEL
 10 ppm TWA; 50
 N/A

mg/m3 TWA

Control Parameters

Engineering Measures: Local exhaust ventilation, process enclosures, or other engineering controls are

necessary when handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: Respiratory protection will be required when handling this product. Use respirators only if

ventilation cannot be used to eliminate symptoms or reduce the exposure to below

acceptable levels.

Respirator Type(s):NIOSH approved air purifying respirator with HEPA filter. **Eye Protection:**Wear safety glasses with side shields and a Face shield

Skin Protection: Prevent contact with this product. Wear a full protective suit, protective gloves, face and

further skin protection depending upon condition of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment thoroughly after each use. Do not wear surgical style latex gloves. Wash hands and other exposed areas with mild soap and water before eating, drinking. Change contaminated clothing

immediately and launder only at a commercial facility.

Gloves: Nitrile

Section 9

Physical Data

Formula: C10H8 Vapor Pressure: 0.082 at 25 °C Molecular Weight: 128.17 Evaporation Rate (BuAc=1): 1

Appearance: White Crystalline Solid

Odor: Moderate Characteristic

Vapor Density (Air=1): 4.4

Specific Gravity: 1.162

Odor Threshold: 0.2 mg/m3 OT (Punter)

pH: No data available

Melting Point: 78 - 82 C

Solubility in Water: Practically Insoluble
Log Pow (calculated): 3.3 at 20 °C
Autoignition Temperature: 526 C

Boiling Point: 218 C Decomposition Temperature: No data available

Flash Point: 79 C

Flammable Limits in Air: LEL: 0.9%, UEL: 5.9%

Viscosity: 95+%

Percent Volatile by Volume: 95+%

Naphthalene Page 2 of 4

Section 10 Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Sparks, open flame, other ignition sources, and elevated temperatures.

Incompatible Materials: Strong oxidizing agents

Hazardous Decomposition Products: Carbon oxides Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry Inhalation, ingestion, eye or skin contact.

Symptoms (Acute): Respiratory disorders, , Eye disorders, Gastrointestinal,

Delayed Effects: No data available

Acute Toxicity:

Chemical NameCAS NumberOral LD50Dermal LD50Inhalation LC50Naphthalene91-20-3Oral LD50 MouseDermal LD50 RatNot determined

316 mg/kg > 2500 mg/kg

Oral LD50 Rat 490

mg/kg

Carcinogenicity:

Chemical Name CAS Number IARC NTP OSHA

Naphthalene 91-20-3 Listed Listed Listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

Target Organ Effects:

Acute: See Section 2

Chronic: Tests on laboratory animals indicate material may produce adverse mutagenic and reproductive effects.

Section 12 Ecological Data

Overview: Severe ecological hazard. This product may be toxic to plants and/or wildlife. Highly/very toxic to

fish and other water organisms.

Mobility: No data
Persistence: No data
Bioaccumulation: No data

Degradability: Biodegrades slowly.

Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity

Naphthalene 91-20-3 96 HR LC50 PIMEPHALES PROMELAS 1.99 MG/L [STATIC]

96 HR LC50 LEPOMIS MACROCHIRUS 31.0265 MG/L [STATIC]

48 HR LC50 DAPHNIA MAGNA 2.16 MG/L

48 HR EC50 DAPHNIA MAGNA 1.96 MG/L [FLOW THROUGH]

72 HR EC50 SKELETONEMA COSTATUM 0.4 MG/L

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

Section 14 Transport Information

Naphthalene Page 3 of 4

Ground - DOT Proper Shipping Name: UN1334, Naphthalene, Refined, 4.1, III

Air - IATA Proper Shipping Name:

UN number: 1334 Class: 4.1 Packing group: III Proper shipping

name: Naphthalene, refined

Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

> CAS **CERCLA RQ** § 313 Name § 304 RQ § 302 TPQ **CAA 112(2)** Number

Naphthalene 91-20-3 Naphthalene 100 lb RQ 100 lb final RQ: No No

45.4 kg final RQ

California Prop 65: WARNING: This product contains a chemical known to the state of California

to cause cancer, birth defects or other reproductive harm.

Section 16 Additional Information

Revised: 09/09/2015 Replaces: 09/03/2014 Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

Chemical Name

American Conference of Governmental NTP National Toxicology Program **ACGIH** Industrial Hygienists Occupational Safety and Health Administration **OSHA** Chemical Abstract Service Number CAS Permissible Exposure Limit **PEL CERCLA** Comprehensive Environmental Response, Parts per million ppm Compensation, and Liability Act **RCRA** Resource Conservation and Recovery Act DOT U.S. Department of Transportation SARA Superfund Amendments and Reauthorization Act **IARC** International Agency for Research on Cancer TLV Threshold Limit Value Not Available **TSCA** Toxic Substances Control Act N/A

IDLH Immediately dangerous to life and health

Naphthalene Page 4 of 4