

Section 1 Chemical Product and Company Identification

Page E1 of E2

HOME SCIENCE TOOLS

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| | |
|----------------|--------------------|
| Product | NAPHTHALENE |
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| | |
|-----------------|-------------------------|
| Synonyms | White Tar / Tar Camphor |
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Section 2 Hazards Identification

Signal word: DANGER**Pictograms:** GHS07 / GHS08 / GHS09**Target organs:** Blood, Skin, Eyes, Central nervous system, Liver, Kidneys**GHS Classification:**

Acute toxicity, oral (Category 4)

Carcinogenicity (Category 2)

Acute aquatic toxicity (Category 1)

Chronic aquatic toxicity (Category 1)

GHS Label information: Hazard statement:

H302: Harmful if swallowed.

H351: Suspected of causing cancer.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary statement:

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P312: IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor if you feel unwell.

P308+P313: IF exposed or concerned: Get medical attention.

P391: Collect spillage.

P405: Store locked up.

P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3 Composition / Information on Ingredients

| Chemical Name | CAS # | % | EINECS |
|---------------|---------|---------|-----------|
| Naphthalene | 91-20-3 | 98-100% | 202-049-5 |

Section 4 First Aid Measures

INGESTION: HARMFUL IF SWALLOWED. 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: MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE EYE IRRITATION. 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 ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Carbon dioxide, dry chemical, dry sand, alcohol foam.**Protective Actions for Fire-fighters:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.**Specific Hazards:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Combustible material. Containers may explode when heated.

Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.**Environmental Precautions:** Avoid runoff into storm sewers and ditches which lead to waterways.**Containment and Cleanup:** Recover for reuse if not contaminated. Remove all sources of ignition. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dust or fume. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources.

Section 8 Exposure Controls / Personal Protection

| Exposure Limits: | Chemical Name | ACGIH (TLV) | OSHA (PEL) | NIOSH (REL) |
|------------------|---------------|-------------------------------------|------------------------------------|----------------------------|
| | Naphthalene | TWA: (10) ppm / STEL: (15) ppm (A4) | TWA: 10 ppm / 50 mg/m ³ | TWA: 10 ppm / STEL: 15 ppm |

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

| | | |
|--|--|--|
| Appearance: Solid. White crystalline flake | Evaporation rate (Butyl acetate = 1): Ca 2* | Partition coefficient: Data not available |
| Odor: Odor of mothballs | Flammability (solid/gas): Data not available. | Auto-ignition temperature: 526°C (979°F) |
| Odor threshold: Data not available. | Explosion limits: Lower / Upper: 0.9% / 5.9% | Decomposition temperature: 540°C (1004°F) |
| pH: Data not available. | Vapor pressure (mm Hg): 0.082 @ 77°F | Viscosity: Data not available. |
| Melting / Freezing point: 80°C (176°F) | Vapor density (Air = 1): 4.42 | Molecular formula: C ₁₀ H ₈ |
| Boiling point: 218°C (424°F) Sublimes | Relative density (Specific gravity): 1.145 @ 20°C | Molecular weight: 128.18 |
| Flash point: 79°C (174°F) TCC [Combustible] | Solubility(ies): Insoluble in water. | |

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.

Incompatible materials: Strong oxidizers, chromic anhydride.

Hazardous decomposition products: Carbon oxides.

Section 11 Toxicological Information

Acute toxicity: Oral-rat LD50: 490 mg/kg ; Inhalation-rat LC50: 340 mg/m³/1 hour ; Dermal-rabbit LD50: 2000 mg/kg

Skin corrosion/irritation: Data not available

Serious eye damage/irritation: Data not available

Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenicity: Data not available

NTP: Reasonably anticipated to be a human carcinogen by NTP.

IARC classified: Group 2B: Possibly carcinogenic to humans.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

CA Prop 65: ⚠️ **WARNING!** :This product can expose you to Naphthalene, which is known to the State of California to cause cancer and birth defects or other reproductive harm.

Reproductive toxicity: Experiments have shown reproductive toxicity effects on laboratory animals.

STOT-single exposure: Data not available

STOT-repeated exposure: Data not available

Aspiration hazard: Data not available

Potential health effects:

Inhalation: Inhalation may cause headache, vomiting, nausea and profuse sweating.

Ingestion: Ingestion of large doses may cause poisoning, causing cramps, nausea, vomiting and diarrhea.

Skin: Prolonged or repeated contact may cause irritation.

Eyes: High vapor or dust concentrations may cause eye irritation.

Signs and symptoms of exposure: Exercise appropriate procedures to minimize potential hazards.

Additional information: RTECS #: QJ0525000

Section 12 Ecological Information

Toxicity to fish: Pimephales promelas (fish, fresh water), LC50 = 7.76 mg/L/24 hours

Toxicity to daphnia and other aquatic invertebrates: Daphnia pulex (Crustacea), LC50 = 1000 µg/L/96 hours

Toxicity to algae: Microcystis aeruginosa (Algae, blue, cyanobacteria), EC20 = 0.9 mg/L

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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 (US DOT / CANADA TDG)

UN/NA number: UN1334

Shipping name: Naphthalene, refined

Hazard class: 4.1

Packing group: III

Reportable Quantity: 100 lbs (45.4 kg)

Marine pollutant: No

Exceptions: Limited quantity equal to or less than 5 Kg

2016 ERG Guide # 133

Section 15 Regulatory Information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

| Component | TSCA | CERLCA (RQ) | RCRA code | DSL | NDSL | CA Prop 65 |
|-------------|--------|-------------------|-----------|--------|------------|--|
| Naphthalene | Listed | 100 lbs (45.4 kg) | U165 | Listed | Not listed | ⚠️ WARNING -Cancer and Reproductive Harm - www.P65Warnings.ca.gov. |

Section 16 Other 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. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.