



Section 1 – Company Information

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Collect Calls Accepted

Section 2 – Product Identification/ Information on Ingredients

PRODUCT NAME Camphor Powder, Synthetic
CAS NUMBER 76-22-2
SYNONYM 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one
FORMULA C₁₀H₁₆O

Section 3 – Hazards Identification

OSHA Hazards: Flammable solid, Target organ effect, Harmful by ingestion, Irritant
Target Organs: Central nervous system, Liver, Kidney
Other Hazards which do not result in Classification: Rubefacient.

GHS Classification

Flammable solids (Category 2)
Acute toxicity, Oral (Category 4)
Skin irritation (Category 2)
Eye irritation (Category 2A)
Specific target organ toxicity - single exposure (Category 3)

GHS Label Elements, including Precautionary Statements

Signal Word: Warning

Hazard Statement(s)

H228 Flammable solid.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary Statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



HMIS Classification

Health Hazard: 2

Chronic Health Hazard: *

Flammability: 2

Physical Hazards: 2

NFPA Rating

Health Hazard: 2

Fire: 2

Reactivity Hazard: 2

Potential Health Effects

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Skin: Harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation.

Ingestion: Harmful if swallowed.

Section 4 – First Aid Measures

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If Inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of Skin Contact: Wash off with soap and plenty of water. Consult a physician.

In case of Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If Swallowed: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5 – Fire Fighting Measures

Conditions of Flammability: Flammable in the presence of a source of ignition, through friction or retained heat. Keep away from heat/sparks/open flame/hot surface. No smoking.

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special Protective Equipment for Firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous Combustion Products: Hazardous decomposition products formed under fire conditions. - Carbon oxides

Further Information: Use water spray to cool unopened containers.



Section 6 – Accidental Release Measures

Personal Precautions: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and Materials for Containment and Cleaning Up: Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet brushing and place in container for disposal according to local regulations (see Section 13). Keep in suitable, closed containers for disposal.

Section 7 – Handling & Storage

Precautions for Safe Handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge.

Conditions for Safe Storage: Keep container tightly closed in a dry and well-ventilated place.

Section 8 – Exposure Controls & Personal Protection

Components with Workplace Control Parameters

Component: Bornan-2-one (CAS 76-22-2)

USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants:
TWA, 2 mg/m³

USA. ACGIH Threshold Limit Values (TLV): TWA, 2 ppm; STEL 3 ppm

USA. NIOSH Recommended Exposure Limits: TWA, 2 mg/m³

USA. OSHA - TABLE Z-1 Limits for Air Contaminants -1910.1000: 2 mg/m³

Remarks: Upper Respiratory Tract irritation, Eye irritation, Anosmia, Not classifiable as a human carcinogen

Personal Protective Equipment

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand Protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye Protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).



Skin and Body Protection: Complete suit protecting against chemicals, Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Section 9 – Physical & Chemical Properties

Appearance

Form: Solid

Color: No data available

Safety Data

pH: No data available

Melting Point/Freezing Point Range: 175 - 177°C (347 - 351°F) - lit.

Boiling Point: 204°C (399°F) - lit.

Flash Point: 64.4°C (147.9°F) - closed cup

Flammability (solid, gas): The substance or mixture is a flammable solid with the category 2.

Ignition Temperature: 466°C (871°F)

Autoignition Temperature: No data available

Lower Explosion Limit: 0.6 % (V)

Upper Explosion Limit: 3.5 % (V)

Vapor Pressure: 0.87 hPa (0.65 mm Hg) at 25°C (77°F)

5 hPa (4 mm Hg) at 70°C (158°F)

Density: 0.992 g/cm³ at 25°C (77°F)

Water Solubility: Approx. 1 g/L

Partition Coefficient: n-Octanol/Water: log Pow: 2.38

Relative Vapor Density: No data available

Odor: No data available

Odor Threshold: No data available

Evaporation Rate: No data available

Section 10 – Stability & Reactivity Data

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: No data available

Conditions to Avoid: Heat, flames and sparks. Extremes of temperature and direct sunlight.

Materials to Avoid: Strong oxidizing agents, Strong reducing agents, Chlorinated solvents

Hazardous Decomposition Products: Hazardous decomposition products formed under fire conditions: carbon oxides

Other Decomposition Products: No data available



Section 11 – Toxicological Information

Acute Toxicity

Oral LD50: LD50 Oral - mouse - 1310 mg/kg

Inhalation LC50: No data available

Dermal LD50: No data available

Other Information on Acute Toxicity: No data available

Skin Corrosion/Irritation: No data available

Serious Eye Damage/Eye Irritation: No data available

Respiratory or Skin Sensitization: No data available

Germ Cell Mutagenicity: Genotoxicity in vivo - mouse - Intraperitoneal Sister chromatid exchange

Carcinogenicity: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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

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.

Reproductive Toxicity: No data available

Teratogenicity: No data available

Specific Target Organ Toxicity - Single Exposure (Globally Harmonized System):

Inhalation - May cause respiratory irritation.

Specific Target Organ Toxicity - Repeated Exposure (Globally Harmonized System): No data available

Aspiration hazard: No data available

Potential Health Effects

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion: Harmful if swallowed.

Skin: Harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation.

Signs and Symptoms of Exposure: Confusion, Coma, Nausea, Dizziness, Headache

Synergistic effects: No data available

Additional Information: RTECS: EX1225000



Section 12 – Ecological Information

Toxicity: Toxicity to fish - *Pimephales promelas* (fathead minnow) - 110 mg/L - 96 h
Persistence and Degradability: Biodegradability Remarks: Expected to be biodegradable
Bioaccumulative Potential: No data available
Mobility in Soil: No data available
PBT and vPvB Assessment: No data available
Other Adverse Effects: No data available

Section 13 – Disposal Consideration

Dispose of product and contaminated packaging in accordance with all local, state and federal environmental control regulations.

Section 14 – Transportation Data

DOT (US)

UN Number: 2717
Class: 4.1
Packing Group: III
Proper Shipping Name: Camphor
Marine Pollutant: No
Poison Inhalation Hazard: No

IMDG

UN Number: 2717
Class: 4.1
Packing Group: III
EMS-No: F-A, S-I
Proper Shipping Name: Camphor
Marine Pollutant: No

IATA

UN Number: 2717
Class: 4.1
Packing Group: III
Proper Shipping Name: Camphor



Section 15 – Regulatory Information

OSHA Hazards: Flammable solid, Target Organ Effect, Harmful by ingestion, Irritant

SARA 302 Components: SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right to Know Components: Bornan-2-one, CAS-No. 76-22-2, Revision Date 1993-04-24

Pennsylvania Right to Know Components: Bornan-2-one, CAS-No. 76-22-2, Revision Date 1993-04-24

New Jersey Right to Know Components: Bornan-2-one, CAS-No. 76-22-2, Revision Date 1993-04-24

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm

Section 16 – Other Information

Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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