

SAFETY DATA SHEET CAMPHOR SYNTHETIC USP

1. PRODUCT INFORMATION AND COMPANY IDENTIFICATION

Product Name: Camphor Synthetic USP INCI Name: Camphor Gum USP

CAS Number: 76-22-2

Recommended Use: Industrial uses

Company: Chemistry Connection

253 Sturgis Road Conway, AR 72034 (501) 470-9689

Emergency Contact: Chemtrec (800) 424-9300

2. HAZARD IDENTIFICATION

Classification of the substance or mixture

GHS-US classification

Flam. Sol. 2 Acute H228 - Flammable solid.
Tox. 4 (Oral) H302 - Harmful if swallowed.
Acute Tox. 4 (Inhalation:dust,mist) H332 - Harmful if inhaled.

STOT SE 2 H371 - May cause damage to organs.

Aquatic Acute 3 H402 - Harmful to aquatic life

Full text of H statements : see section 16

Label elements

GHS-US labelling

Hazard pictograms (GHS-US)







GHS02

GHS07

GHS08

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Signal word (GHS-US) Warning

Hazard statements (GHS-US) H228 - Flammable solid.

H302+H332 - Harmful if swallowed or if inhaled H371 - May cause damage to organs.

H402 - Harmful to aquatic life

Precautionary statements (GHS-US)

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240 - Ground/Bond container and receiving equipment

P241 - Explosion-free electrical equipment and lighting with earth

P260 - Do not breathe gas, fumes, vapour or spray

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 - Wash hands thoroughly after handling

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

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection

P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P312 - Call a POISON CENTER/doctor if you feel unwell.

P330 - Rinse mouth.

P370+P378 - In case of fire: Use media other than water to extinguish.

P405 - Store locked up.

P501 - Dispose in a safe manner in accordance with local/national regulations

Other hazards

No additional information available

Unknown acute toxicity (GHS US)

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

INCI NAME	CAS NO.	CONCENTRATION %)
Camphor Gum USP	76-22-2	100

GHS-US classification

Flam. Sol. 2, H228

Acute Tox. 4 (Oral), H302

Acute Tox. 4 (Inhalation:dust.mist). H332

STOT SE 2, H371

Aquatic Acute 3, H402

Full text of H-statements: see section 16

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Mixtures

Not applicable

4. FIRST AID MEASURES

Description of first aid measures

First-aid measures general Never give anything by mouth to an unconscious person. If

you feel unwell, seek medical advice (show the label where possible). IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel

unwell.

First-aid measures after inhalation Remove person to fresh air and keep comfortable for

breathing. Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. Call a poison center or a doctor if

you feel unwell.

First-aid measures after skin contact Gently wash with plenty of soap and water. Wash skin with

plenty of water.

First-aid measures after eye contact Remove contact lenses, if present and easy to do. Continue

rinsing. Rinse cautiously with water for several minutes.

First-aid measures after ingestion Rinse mouth. Do NOT induce vomiting. Call a POISON

CENTER/doctor if you feel unwell. Call a poison center or a

doctor if you feel unwell.

Most important symptoms and effects, both acute and delayed

Symptoms/effects May cause damage to organs.

Symptoms/effects after inhalation Danger of serious damage to health by prolonged

exposure through inhalation. Harmful if inhaled.

Symptoms/effects after ingestion Swallowing a small quantity of this material will result in

serious health hazard.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media Foam. Dry powder. Carbon dioxide. Water spray. Sand.

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Unsuitable extinguishing media Do not use a heavy water stream.

Special hazards arising from the substance or mixture

Fire hazard Flammable solid.

Explosion hazard May form flammable/explosive vapour-air mixture.

Reactivity On combustion, forms: carbon oxides (CO and CO2).

Reacts violently with (strong) oxidizers: (increased) risk of

Advice for firefighters fire/explosion. Flammable solid.

Precautionary measures fire Fire. Keep upwind.

Firefighting instructions

Use water spray or fog for cooling exposed containers.

Exercise caution when fighting any chemical fire. Prevent

fire fighting water from entering the environment.

Protection during firefighting Do not enter fire area without proper protective equipment,

including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective

clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

General measures Remove ignition sources. Use special care to avoid static

electric charges. No open flames. No smoking.

For non-emergency personnel

Protective equipment Protective clothing. Dust cloud production: compressed

air/oxygen apparatus. See "Material-Handling" to select

protective clothing. Gloves. Face shield.

Emergency procedures Ventilate spillage area. Evacuate unnecessary personnel.

No open flames, no sparks, and no smoking. Do not

breathe gas, fumes, vapour or spray.

Measures in case of dust release In case of dust production: keep upwind. Dust production:

have neighbourhood close doors and windows. Dust production: stop engines and no smoking. In case of dust production: no naked flames or sparks. Dust: spark-

/explosionproof appliances/lighting equipment.

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For emergency responders

Protective equipment Do not attempt to take action without suitable protective

equipment. Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapours/spray. For further information refer to section 8: "Exposure

controls/personal protection".

Emergency procedures Ventilate area.

Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and material for containment and cleaning up

For containment Dam up the liquid spill. Contain leaking substance, pump

over in suitable containers. Stop leak if safe to do so. Knock down/dilute dust cloud with water spray. Consult "Material-handling" to select material of containers.

Methods for cleaning up Mechanically recover the product. On land, sweep or

shovel into suitable containers. Store away from other materials. Notify authorities if product enters sewers or

public waters.

Other information Dispose of materials or solid residues at an authorized site.

Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Additional hazards when processed Handle empty containers with care because

residual vapours are flammable.

Precautions for safe handling Wear personal protective equipment. Wash hands

and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Use only outdoors or in a well-ventilated area. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. **No** smoking. Ground/bond container and

receiving

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equipment. Do not breathe gas, fumes, vapour or

spray.

Hygiene measures Do not eat, drink or smoke when using this

product. Wash hands thoroughly after handling. Always wash hands after handling the product.

Conditions for safe storage, including any incompatibilities

Technical measures Proper grounding procedures to avoid static

electricity should be followed. Ground/bond container and receiving equipment. Explosion-free

electrical equipment and lighting with earth.

Storage conditions Keep only in the original container in a cool, well

ventilated place away from : Keep container closed when not in use. Keep in fireproof place. Keep cool. Protect from sunlight. Keep away from ignition sources. Store locked up. Store in a well-

ventilated place.

Incompatible products Strong bases. Strong acids.

Incompatible materials Sources of ignition. Direct sunlight. Heat sources.

Heat and ignition sources Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking.

Information on mixed Keep away from oxidizing agents.

storage Storage area Meet the legal requirements. Store in a dry area.

Store in a well-ventilated place. Provide the tank

with earthing.

Special rules on packaging Special rules on packaging. Store in a closed

container. Clean. Meet the legal requirements.

Packaging materials Suitable packing materials. wood. glass. Tin.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

CAMPHOR GUM USP (76-22-2)

ACGIH CTEL (2002) 2 ppm 2 ppm

ACGIH ACGIH STEL (ppm)

Exposure controls

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Personal protective equipment
Avoid all unnecessary exposure. Wash hands thoroughly

after handling.

Materials for protective clothing Excellent resistance: Butyl rubber. Polyvinylchloride (PVC).

Hand protection Wear protective gloves/protective clothing/eye protection

protective gloves.

Eye protection Chemical goggles or safety glasses. Protective goggles.

Skin and body protection Measures in case of dust release. Protective clothing.

Dustproof clothing. Head/neck protection.

Respiratory protection Where exposure through inhalation may occur from use,

respiratory protection equipment is recommended. [In case

of inadequate ventilation] wear respiratory protection.

Environmental exposure controls Avoid release to the environment.

Other information Do not eat, drink or smoke during use. Do not breathe

gas, fumes, vapour or spray. Do not eat, drink or smoke

when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Solid
Appearance	Crystalline solid. Crystalline powder.
Colour	white Colourless
Odour	Aromatic
Odour threshold	No data available
pH	No data available
Melting point	165 - 177 °C
Freezing point	Not applicable
Boiling point	204 °C
Flash point	Not applicable
Relative evaporation rate (butylacetate= 1)	No data available
Flammability (solid, gas)	No data available
Explosive limits	Not applicable
Explosive properties	No data available
Oxidising properties	No data available
Vapour pressure	0.27 hPa
Relative density	Not applicable
Relative vapour density at 20 °C	5.24
Molecular mass	152.26 g/mol

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Solubility	Soluble in ethanol. Soluble in ether. Soluble in oil. Soluble in sulfur dioxide. Poorly soluble in water. Soluble in chloroform. Soluble in methanol. Soluble in acetic acid. Soluble in. Sulfur. Soluble in sulfuric acid. Soluble in chlorinated hydrocarbons. Water: 0.15 g/100ml
Log Pow	< 3 (QSAR)
Auto-ignition temperature	Not applicable
Decomposition temperature	No data available
Viscosity	No data available
Viscosity, kinematic	Not applicable
Viscosity, dynamic	No data available

Other information

VOC content 100 %

Other properties Electrostatic charges may be generated during handling

Gas/vapour heavier than air at 20°C.

10. STABILITY AND REACTIVITY

Reactivity

On combustion, forms: carbon oxides (CO and CO2). Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion. Flammable solid.

Chemical stability

Flammable solid. May form flammable/explosive vapour-air mixture.

Possibility of hazardous reactions

Not established.

Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

Avoid contact with hot surfaces. No flames, no sparks. Eliminate all sources of ignition.

Incompatible materials

Strong acids. Strong bases.

Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity Oral: Harmful if swallowed. Inhalation:dust,mist: Harmful if inhaled.

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ATE US (oral) 500 mg/kg bodyweight

ATE US (dust,mist) 1.5 mg/l/4h

Skin corrosion/irritation Not classified

Serious eye damage/irritation

Not classified

Respiratory or skin sensitisation

Not classified

Germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

Carcinogenicity Not classified

Reproductive toxicity Not classified

Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure)

May cause damage to organs.

Specific target organ toxicity (repeated exposure)

Not classified

Aspiration hazard Not classified

Potential adverse human health effects and symptoms

Harmful if swallowed. Harmful if inhaled.

Symptoms/effects after inhalation

Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.

Symptoms/effects after ingestion

Swallowing a small quantity of this material will result in serious health hazard.

12. ECOLOGICAL INFORMATION

Toxicity

Ecology - general The product is not considered harmful to aquatic organisms

nor to cause long-term adverse effects in the environment.

Ecology - air TA-Luft Klasse 5.2.5/1.

Ecology - water Toxic to fish. Toxic to aquatic organisms. Harmful to algae.

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LC50 fish 1 110 mg/l (96 h; Pimephales promelas; Other isomer)

EC50 Daphnia 1 100 mg/l (48 h; Daphnia magna; QSAR)

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Threshold limit algae 1 68 mg/l (72 h; Algae)

Persistence and degradability

CAMPHOR GUM USP (76-22-2)

Persistence and degradability Not established.

ThOD 2.8 g O₂/g substance

Bioaccumulative potential CAMPHOR

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Log Pow < 3 (QSAR)

Bioaccumulative potential

Not established.

Mobility in soil

No additional information available

Other adverse effects

Other information Avoid release to the environment.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste treatment methods Dispose of contents/container in accordance with licensed

collector's sorting instructions.

Product/Packaging disposal recommendations

Dispose in a safe manner in accordance with local/national regulations. Dispose in a safe manner in accordance with local/national regulations.

Additional information Handle empty containers with care because residual

vapours are flammable.

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14. TRANSPORT INFORMATION

Department of Transportation (DOT)

In accordance with DOT

Transport document description UN2717 Camphor, 4.1, III

UN-No.(DOT) UN2717

Proper Shipping Name (DOT) Camphor

Class (DOT) 4.1 - Class 4.1 - Flammable Solid 49 CFR

Hazard labels (DOT) 173.124 4.1 - Flammable solid



Packing group (DOT) III - Minor Danger

DOT Packaging Non Bulk (49 CFR 173.xxx) 213

DOT Packaging Bulk (49 CFR 173.xxx) 240

DOT Special Provisions (49 CFR 172.102)

A1 - Single packagings are not permitted on passenger aircraft.

1B8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).

IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner.

T1 - 1.5 178.274(d)(2) Normal..... 178.275(d)(2)

TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank

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instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

DOT Packaging Exceptions (49 CFR 173.xxx)

None

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)

25 kg

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)

100 kg

DOT Vessel Stowage Location A - The material may be stowed "on deck" or "under deck"

on a cargo vessel and on a passenger vessel.

Other information No supplementary information available.

Transportation of Dangerous Goods

Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index

Transport by sea

UN-No. (IMDG) 2717

Proper Shipping Name (IMDG) CAMPHOR

Class (IMDG) 4.1 - Flammable solids, self-reactive substances and

solid desensitized explosives

Packing group (IMDG) III - substances presenting low danger

EmS-No. (1) F-A

MFAG-No 133

EmS-No. (2) S-1

Air transport

UN-No. (IATA) 2717

Proper Shipping Name (IATA) Camphor

Class (IATA) 4.1 - Flammable solids

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Packing group (IATA) III - Minor Danger

Civil Aeronautics Law Combustible materials/Combustible

material(Hazardous materials notice Appended

Table 1 Article 194 of the Enforcement

Regulations)

15. REGULATORY INFORMATION

US Federal regulations

CAMPHOR GUM USP (76-22-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

US State regulations

No additional information available

16. OTHER INFORMATION

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