



UNIVERSAL PRESERV-A-CHEM, INC.
Chemicals for Food, Pharmaceutical, Cosmetic, and Industrial Trades
2390 Park Center Drive Mebane, NC 27302-9848
Phone: 855-874-4100, WWW.UPI-CHEM.COM

Safety Data Sheet

1. Identification

Product name: CAMPHOR USP SYNTHETIC POWDER
Trade Name: Uniphor® CC-20
CAS #: 76-22-2
Product code: 910005
Product use:
Manufacturer/Supplier:
Supplier(Manufacturer):
Address: Universal Preserv-A-Chem Inc.
2390 Park Center Drive
Mebane, NC 27302
Phone : (732) 568-1266

Emergency telephone Number: +86 599 5840016/5820499/5823129

2. Hazard(s) identification

GHS classification

Physical hazards

Health hazards

Environmental hazards

GHS label elements

Hazard Pictograms

Signal word

Hazard statement

Precautionary statement

Prevention

Flammable solids Category 2
Acute toxicity – oral Category 4
Acute toxicity – inhalation Category 4
Specific target organ toxicity (single exposure) Category 2
Not classified



Warning

Flammable solid.

Harmful if swallowed.

Harmful if inhaled.

May cause damage to organs(lungs)(Inhalation).

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Ground/Bond container and receiving equipment.
Use explosion-proof electrical/ventilating/ lighting equipment.
Wear protective gloves/eye protection/face protection.
Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.
Avoid breathing dust/fume/gas/mist/ vapors/spray.
Use only outdoors or in a well-ventilated area.

Response

In case of fire: Use carbon dioxide, dry chemical powder or appropriate foam to extinguish.

If swallowed: Call a poison center/doctor if you feel unwell.

Rinse mouth.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Call a poison center/doctor if you feel unwell.

If exposed or concerned: Call a poison center/doctor.

Storage

Store locked up.

Disposal

Dispose of contents/container in corroding with local regulation.

3. Composition / information on ingredients

Components	CAS#	Percent
bornan-2-one	76-22-2	>95%

4. First-aid Measures**First aid procedures****Eye contact**

Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek medical aid.

Skin contact

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention.

Inhalation

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.

Ingestion

If swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconscious person. Consult a physician.

Notes to physician

Treat symptoms.

5. Fire-fighting measures**Flammable properties**

Flammable solid.

Extinguishing media**Suitable extinguishing media**

Carbon dioxide, dry chemical powder or appropriate foam.

Unsuitable extinguishing media

Not available.

Firefighting equipment/instructions

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

Hazardous combustion products

Carbon oxides.

6. Accidental release measures**Personal precautions**

Use an individual protective equipment (waterproof boots, suitable protective clothing, and safety glasses). Prevent any contact with hot surfaces. Do not approach facing the wind.

Environmental precautions

Keep away from drains, surface and groundwater and soil.

Methods for cleaning up

Contain spilled material. Cover with an inert, non-combustible, inorganic absorbing material, or sweep up, and remove to an approved disposal container. Avoid open flames or other sources of ignition.

7. Handling and storage

Handling

Apply according to good manufacturing and industrial hygiene practices with proper ventilation. Do not drink, eat or smoke while handling. Respect good personal hygiene.

Storage

Store in cool, dry and ventilated area away from heat sources and protected from light in tightly closed original container. Keep air contact to a minimum.

8. Exposure controls / personal protection

Control parameters:

OCCUPATIONAL EXPOSURE LIMITS (OEL)**INGREDIENT DATA:**

Source	Ingredient	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Levels (PELs) - Table Z1	bornan-2-one	2 mg/m ³	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Levels (PELs) - Table Z3	bornan-2-one	5 mg/m ³ / 15 mg/m ³ /15 mppcf/ 50 mppcf	Not Available	Not Available	Respirable fraction; All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1./ Total dust; All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1.
US ACGIH Threshold Limit Values (TLV)	bornan-2-one	2ppm	3 ppm	Not Available	TLV® Basis: Eye & URT irr; anosmia
US NIOSH Recommended Exposure Limits (RELs)	bornan-2-one	2 mg/m ³	Not Available	Not Available	Not Available

EMERGENCY LIMITS:

Ingredient	TEEL-1	TEEL-2	TEEL-3
bornan-2-one	19 mg/m ³	19 mg/m ³	200 mg/m ³

Ingredient	Original IDLH	Revised IDLH
bornan-2-one	200 mg/m ³	200 [Unch] mg/m ³

Exposure controls:**Appropriate engineering controls:**

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

Individual protection measures, such as personal protective equipment:**Eye / face protection**

Use safety glasses.

Skin protection

Avoid skin contact. Use chemical resistant gloves and clothing as needed.

Respiratory protection

Avoid breath directly on the product. Apply local ventilations when appropriate.

General hygiene
considerations

Ventilation: ensure good ventilation of the workstation.

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

9. Physical and chemical properties

Appearance

Physical state

Solid

Form

Powder

Color

White

Odor

Characteristic odor

Odor threshold

Not available

pH

Not available

Vapor pressure

0.65 mm Hg at 25 °C

Melting point/Freezing point

180 °C

initial boiling point and boiling range

204 °C

Flash point

Not available

Evaporation rate

Not available

Flammability (solid, gas)

Flammable

Explosion limits

Not available

Vapor density

Not available

Relative density

0.992 at 25 °C

Solubility (water)

1.5373 g/L at 25 °C

Partition coefficient

log Pow= 2.414 at 25 °C

Auto-ignition temperature

Not available

Decomposition temperature

Not available

Specific gravity

Not available

Flammability limits in air, upper, %by volume

Not available

Flammability limits in air, lower, % by volume

Not available

VOC

Not available

Percent volatile

Not available

Molecular formula

C₁₀H₁₆O

Molecular weight

152.23

Other data

Viscosity

Not available

Surface tension

Not available

10. Stability and reactivity

Chemical stability

Material is stable under normal conditions.

Conditions to avoid

Incompatible materials. Avoid contact with heat, sparks, flames, or other sources of

Incompatible materials

ignition.

Oxidizers, naphthalene, dichlorobenzene, potassium permanganate, organic solvents, chromic anhydride, chlorates, salts.

Hazardous decomposition products

Carbon monoxide, carbon dioxide.

Possibility of hazardous reactions

Not expected to occur.

11. Toxicological information**Toxicokinetics, metabolism and distribution:**

Non-human toxicological data: Not available

Information on toxicological effects:**Acute toxicity:**

LD50(Oral, Rat): Not available

LD50(Dermal, Rabbit): Not available

LC50(Inhalation, Rat): Not available

Skin corrosion/Irritation: Not classified

Serious eye damage/Irritation: Not classified

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT- single exposure: May cause damage to organs(lungs)(Inhalation).

STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

12. Ecological information**Toxicity:**

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	N/A	96h	Fish	OECD 203	N/A	N/A
EC50	N/A	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability: Readily biodegradable.

Bioaccumulative potential: log Pow= 2.414 at 25 °C

Mobility in soil: log Koc= 2.0683

Results of PBT&vPvB assessment: The substance is not PBT / vPvB.

Other adverse effects: No known significant effects or critical hazards.

13. Disposal considerations**Disposal instructions**

Dispose of contents/container in accordance with local/regional/national/international regulations.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information**DOT**

Basic shipping requirements:

UN number	2717
Proper shipping name	CAMPHOR, SYNTHETIC
Hazard class	4.1
Packing group	III
Environmental hazards	No

IATA

UN number	2717
UN proper shipping name	CAMPHOR, SYNTHETIC
Transport hazard class(es)	4.1
Packing group	III
Environmental hazards	No

IMDG

UN number	2717
UN proper shipping name	CAMPHOR, SYNTHETIC
Transport hazard class(es)	4.1
Packing group	III
Environmental hazards	No

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture:

bornan-2-one (76-22-2) is found on the following regulatory lists	"US - Hawaii Air Contaminant Limits" List.
	"US - Idaho - Limits for Air Contaminants" List.
	"US - Alaska Limits for Air Contaminants" List.
	"US- Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants" List.
	"US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory" List.

16. Other information, including date of preparation or last revision

HMIS ratings	Health: 2 Flammability: 2 Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 2 Instability: 0
Disclaimer	The information in the sheet was written based on the best knowledge and experience currently available.

Quality With Responsible Care !

2390 Park Center Dr Mebane, NC 27302-9848

PHONE: 732 568-1266 FAX: 732 568-1299 WEBSITE: UPICHEM.COM EMAIL: INFO@UPICHEM.COM