


Section 1: Identification

Common Name/Trade Name	CAMPBOR SYNTHETIC	
Supplier Information	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	IN CASE OF EMERGENCY: Chemtrec 1 (800) 424-9300 (24 hours)
Product Synonym(s)	bornan-2-one	
Relevant Use(s) of Product	Manufacture or Compounding of Substances	

Section 2: Hazards Identification

Classification of Substance or Mixture	Flammable solids (Category 2), Acute toxicity, Oral (Category 4), Acute toxicity, inhalation (Category 4), Specific target organ toxicity - single exposure (Category 2)	
Signal Word	Warning	
Hazard Statement(s)	H228 H302 H332 H371	Flammable solid Harmful if swallowed Harmful if inhaled May cause damage to organs
Pictogram(s)		
Precautionary Statement(s)	P210 P240 P241 P261 P264 P270 P271 P280 P301+P312 P302+P352 P304+P340 P312 P330 P370+P378 P405 P501	Keep away from heat/sparks/open flames/hot surfaces – No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/light/equipment. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED Call a POISON CENTER or doctor/physician if you feel unwell. IF ON SKIN Wash with soap and water. IF INHALED Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. In case of fire Use carbon dioxide, dry chemical powder or appropriate foam for extinction. Store locked up. Dispose of contents/container to an approved waste disposal plant.
Hazards Not Otherwise Classified	No data available	
Ingredient(s) with Unknown Toxicity	No data available	

Section 3: Composition/Information on Ingredients

Chemical Name	bornan-2-one
Common Name	Camphor Synthetic
CAS Number	76-22-2
Impurities and/or Stabilizing Additives	No data available

Section 4: First Aid Measures

General Advice	Notes to physician: Treat symptoms.
If Inhaled	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.
In Case of Skin Contact	Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention.
In Case of Eye Contact	Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek medical aid.
If Swallowed	If swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconscious person. Consult a physician.
Most Important Symptoms and Effects	No data available. Notes to physician: Treat symptoms.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Extinguishing media Suitable extinguishing media Carbon dioxide, dry chemical powder or appropriate foam. Unsuitable extinguishing media Not available.
Special Hazards Arising From the Substance/Mixture	Carbon oxides.
Special PPE and/or Precautions for Firefighters	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	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.
Methods and Materials Used for Containment	Keep away from drains, surface and groundwater and soil.
Cleanup Procedures	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.

Section 7: Handling and Storage

Precautions for Safe Handling	Apply according to good manufacturing and industrial hygiene practices with proper n. Do not drink, eat or smoke while handling. Respect good personal hygiene.
Conditions for Safe 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.

Section 8: Exposure Controls/Personal Protection

Components with Workplace Control Parameters	Bornan-2-one CAS-No. 76-22-2 Value TWA Control parameters 2mg/m3. Basis- USA. Occupational Exposure Limits. (OSHA) Table Z-1 Limits for Air Contaminants. Value TWA Control parameters 2ppm. Basis- USA. ACGIH Threshold Limit Values (TLV). Remarks: Upper Respiratory irritation, Eye irritation, Anosmia, Not classifiable as a human carcinogen. Value: STEL Control parameters- 3 ppm Basis: USA ACGIH Threshold Limit Values (TLV) Value: Upper Respiratory Tract irritation Eye irritation, Anosmia, Not classifiable as a human carcinogen. Value: TWA Control parameters 2mg/m3 Basis: USA. NIOSH Recommended Exposure Limits. Value: TWA Control parameters: 2mg/m3 USA OSHA-TABLE Z-1 Limits for Air Contaminants-1910.1000.
Appropriate Engineering Controls	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.
PPE - Eye/Face Protection	Use safety glasses.
PPE - Skin Protection	Avoid skin contact. Use chemical resistant gloves and clothing as needed.
PPE - Body Protection	Avoid skin contact. Use chemical resistant gloves and clothing as needed.
PPE - Respiratory Protection	Avoid breath directly on the product. Apply local ventilations when appropriate.

Section 9: Physical and Chemical Properties

Appearance	Physical state: Solid. Form: Powder Colour: White
Upper/Lower Flammability or Explosive Limits	No data available
Odor	Characteristic odor
Vapor Pressure	0.65 mm Hg at 25 °C
Odor Threshold	No data available
Vapor Density	No data available
pH	No data available
Relative Density	0.992 at 25 °C
Melting Point/Freezing Point	180 °C
Solubility	Solubility (water) 1.5373 g/L at 25 °C
Initial Boiling Point and Boiling Range	204 °C
Flash Point	Not available
Evaporation Rate	No data available
Flammability (Solid, Gas)	Flammable
Partition Coefficient	log Pow= 2.414 at 25 °C
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available

Section 10: Stability and Reactivity

Reactivity	Material is stable under normal conditions.
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	No data available
Conditions to Avoid	Incompatible materials. Avoid contact with heat, sparks, flames, or other sources of ignition.
Incompatible Materials	Oxidizers, naphthalene, dichlorobenzene, potassium permanganate, organic solvents, chromic anhydride, chlorates, salts.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide.

Section 11: Toxicological Information

Acute Toxicity - LD50 Oral	No data available
Acute Toxicity - Inhalation	No data available
Acute Toxicity - Dermal	No data available
Acute Toxicity - Eye	No data available
Skin Corrosion/Irritation	Not classified.
Serious Eye Damage/Irritation	Not classified.
Respiratory or Skin Sensitization	Not classified.
Germ Cell Mutagenicity	Not classified.
Carcinogenicity IARC	Not classified.
Carcinogenicity ACGIH	Not classified.
Carcinogenicity NTP	Not classified.
Carcinogenicity OSHA	Not classified.
Reproductive Toxicity	Not classified.
Specific Target Organ Toxicity - Single Exposure	May cause damage to organs(lungs)(Inhalation).
Specific Target Organ Toxicity - Repeated Exposure	Not classified
Aspiration Hazard	Not classified

Section 12: Ecological Information

Toxicity	LC50 N/A 96h Fish OECD 203. EC50 N/A 48h Daphnia OECD 202. EC50 N/A 72h Algae OECD 201
Persistence and Degradability	Readily biodegradable.
Bio-accumulative Potential	log Pow= 2.414 at 25 Å°C
Mobility in Soil	log Koc= 2.0683
Other Adverse Effects	No known significant effects or critical hazards.

Section 13: Disposal Considerations

Waste Treatment Methods Product	Dispose of contents/container in accordance with local/regional/national/international regulations.
Waste Treatment Methods Packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.
Special Precautions Landfill or Incinerations	No data available
Other Information	No data available

Section 14: Transport Information

UN Number	2717
UN Proper Shipping Name	Camphor, Synthetic
Transport Hazard Class(es)	4.1
Packaging Group	III
Environmental Hazards	Marine Pollutant: No Poison Inhalation Hazard: No

Section 15: Regulatory Information

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.

Section 16: Other Information

Additional Information	N/A
Prepared By	Scarlotte Smith
Revision Date	02/05/2019 16:17

Disclaimer

Letco Medical, LLC believes that the above information is 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. If the product is used as a component in another product, this information may not be applicable. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED ABOVE. Letco Medical shall not be held liable for any loss or damage resulting from handling, storage, use or from contact with the above product.