

Humco Holding Group, Inc.  
7400 Alumax Drive  
Texarkana, TX 75501  
903-334-6200

0455

**CAMPHOR GUM BLOCKS**

**DATE PREPARED: 04/10/07**

---

**SECTION I**

**PRODUCT IDENTIFICATION**

---

**Product Name:** Camphor Gum Blocks

**Common Synonyms:** Gum Camphor; 2-Camphanone

**Chemical Family:** Synthetic

**Formula:** C<sub>10</sub>H<sub>16</sub>O

**Formula Wt.:** 152.24

**CAS No:** 76-22-2

**Degree of Hazard**

4 - Extreme	Flammability	2
3 - High	Health	3
2 - Moderate	Reactivity	0
1 - Slight	Contact	2
0 - Insignificant		

**Laboratory Protective Equipment:** Goggles, lab coat, gloves, vent hood, and extinguisher.

**Warning!** Combustible. Causes irritation. Harmful if swallowed, inhaled or absorbed through the skin. Exceptional health hazard. Before using, read material safety data sheet (MSDS) for this material. Keep away from heat, sparks, or flame. Avoid contact with eyes, skin, & clothing. Keep in tightly closed container. Wash thoroughly after handling. In case of fire, soak with water. In case of spill, sweep up and remove. Flush spill area with water.

**International Labeling:** Avoid contact with eyes. After contact with skin, wash immediately with plenty of water. Keep container tightly closed.

---

**SECTION II**

**COMPONENTS**

---

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>OSHA/PEL</u>	<u>ACGIH/TLV</u>
Camphor	76-22-2	90 - 100%	2 ppm	3 ppm

## SECTION III

## PHYSICAL DATA

---

<b>Boiling Point (@ 760 mmHg):</b> 207°C (404°F)	<b>pH:</b> NA
<b>Specific Gravity:</b> (H <sub>2</sub> O = 1) 0.99	<b>Odor Threshold (ppm):</b> NA
<b>Solubility:</b> (In water) Slight (0.1 – 1%)	<b>Physical State:</b> Solid
<b>Vapor Pressure:</b> (mmHg) 0.18	<b>Vapor Density:</b> (Air=1) 5.2
<b>Evaporation Rate (Butyl Acetate = 1):</b> < 1	<b>% Volatiles by Volume (21°C):</b> NA
<b>Coefficient Water/Oil Distribution:</b> NA	

**Appearance and Odor:** Colorless or white crystals. Aromatic odor.

## SECTION IV

## FIRE AND EXPLOSION HAZARDS

---

**Flash Point (closed cup):** 65°C (150°F)      **Autoignition Temperature:** 465°C (871°F)

**Flammable Limits:**    **Upper** – 3.5%      **Lower** – 0.6%

**Extinguishing Media:** Use alcohol foam, dry chemical or CO<sub>2</sub>. (Water may be ineffective.)

**Special Firefighting Procedures and Precautions:** Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode. Move containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool.

**Unusual Fire and Explosion Hazards:** Gives off flammable vapors. Vapors may form explosive mixture with air. Closed containers exposed to heat may explode. Contact with strong oxidizers may cause fire.

**Toxic Gases Produced:** Carbon monoxide & Carbon dioxide.

**Explosion Data-Sensitivity to Mechanical Impact:** None identified.

**Explosion Data-Sensitivity to Static Discharge:** None identified.

## SECTION V

## HEALTH HAZARD DATA

**Threshold Limit Value (TLV/TWA):** 12 mg/m<sup>3</sup> (2 ppm)

**Short-Term Exposure Limit (STEL):** 18 mg/m<sup>3</sup> (3 ppm)

**Permissible Exposure Limit (PEL):** 2 mg/m<sup>3</sup>

**Toxicity of Components**

Intraperitoneal Mouse LD<sub>50</sub> for Camphor                      3000 mg/kg

Oral Mouse LD<sub>50</sub> for Camphor                                      1310 mg/kg

**Carcinogenicity:**    NTP: No    IARC: No    Z List: No    OSHA Reg.: No

**Carcinogenicity:** None identified.

**Reproductive Effects:** None identified.

**Effects of Overexposure**

**Inhalation:** Coughing, chest pains, irritation of nose and throat, irritation of upper respiratory tract, epileptic seizures.

**Skin Contact:** Irritation, epileptic seizures

**Eye Contact:** Irritation, epileptic seizures

**Skin Absorption:** Epileptic seizures

**Ingestion:** Headache, nausea, vomiting, dizziness, gastrointestinal irritation, epileptic seizures, and may be fatal.

**Chronic Effects:** None identified.

**Target Organs:** Nasal septum, eyes, skin, respiratory system

**Medical Conditions Generally Aggravated by Exposure:** Kidney disorders, liver disorders, heart disorders, epilepsy

**Primary Routes of Entry:** Ingestion, inhalation, eye contact, skin contact.

## SECTION V

## HEALTH HAZARD DATA

**Emergency & First Aid Procedures**

**Ingestion:** Call a physician. If swallowed, if conscious, give large amounts of water. Induce vomiting.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Prompt action is essential.

**Skin Contact:** In case of contact, flush skin with water.

**Eye Contact:** In case of eye contact, immediately flush with plenty of water for at least 15 minutes.

**SARA/TITLE III Hazard Categories & Lists**

**Acute:** Yes    **Chronic:** Yes    **Flammability:** Yes    **Pressure:** No    **Reactivity:** No

**Extremely Hazardous Substance:** No                      **CERCLA Hazardous Substance:** No

**SARA 313 Toxic Chemicals:** No                      **TSCA Inventory:** Yes

## SECTION VI

## REACTIVITY DATA

**Stability:** Stable

**Hazardous Polymerization:** Will not occur.

**Conditions to avoid:** Heat, flame, other sources of ignition, sunlight.

**Incompatibilities:** Strong oxidizing agents, metallic salts, combustible materials, & organic materials.

**Decomposition Products:** Carbon monoxide & Carbon dioxide.

## SECTION VII

## SPILL AND DISPOSAL PROCEDURES

**Steps to be taken in the event of a spill or discharge:** Wear self-contained breathing apparatus and full protective clothing. Shut off ignition sources; no flares, smoking, or flames in area. Carefully place material into clean, dry container and cover; remove from area. Flush spill area with water.

**Disposal Procedures:** Dispose in accordance with all federal, state and local environmental regulations.

---

**SECTION VIII INDUSTRIAL PROTECTIVE EQUIPMENT**


---

**Ventilation:** Use general or local exhaust ventilation to meet TLV requirements.

**Respiratory Protection:** A respirator with dust/mist filter is recommended. If airborne concentration exceeds TLV, a self-contained breathing apparatus is advised.

**Eye/Skin Protection:** Safety goggles and face shield, uniform protective suit, rubber gloves are recommended.

---

**SECTION IX STORAGE & HANDLING PRECAUTIONS**


---

Storage Color Code: Red (flammable)

**Storage Requirement:** Keep container tightly closed. Store in cool, dry, well-ventilated area away from heat, sparks, or flame.

---

**SECTION X TRANSPORTATION DATA & ADDITIONAL INFORMATION**


---

**Domestic (D.O.T.)**

**Proper Shipping Name:** Camphor  
**Hazard Class:** 4.1  
**UN/NA:** UN 2717  
**Labels:** 4 Flammable Solid  
**Regulatory References:** 49CFR172.101  
**Packaging Group:** III

**International (I.M.O.)**

**Proper Shipping Name:** Camphor  
**Hazard Class:** 4.1  
**UN:** UN 2717  
**Labels:** 4 Flammable Solid  
**Packaging Group:** III  
**Marine Pollutants:** No  
**I.M.O. Page:** 4132  
**Regulatory Ref.:** 49CFR Part 176; IMDG Code

**Air (I.C.A.O.)**

**Proper Shipping Name:** Camphor  
**Hazard Class:** 4.1  
**UN:** UN 1325  
**Packaging Group:** III  
**Labels:** 4 Flammable Solid

**US Customs Harmonization Number:** 29142100006

**NOTE:** When handling liquid products, secondary protective containers must be used for carrying.

NA – Not Applicable, or not available

NE – Note Established.

