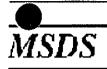
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# Material Safety Data Sheet

rome Mallinokrodt Baker, Inc. 222 Rad School Lane Phillipsburg, NJ 03865



24 | four Chergericy Telephone: 606-359-2191

CHEMTREC: 1-600-424-9800

Notional Response in Canada CAMUTEC: 015-897-4060

Osteldo U.S. and Canado Chest tool 202 498 7616

NOTE: CHEMIFEG CANUTEC and Night and Hosponso Carter a noigency numbers to be used only in the excelled shemisell emergenelss. moving a spill, loss, ito, opposed or establish layotz no obamicala

At non-emergency questions should be directed to Customer Service (1: 600-562-2537) for as statuted

# **dL**-Camphor

SDS Number: C0594 --- Effective Date: 12/08/96

# . Product Identification

Synonyms: Gum Camphor; 2-Camphanone

CAS No.: 21368-68-3 Molecular Weight: 152.24 Chemical Formula: C10H16O

Product Codes: E293

# . Composition/Information on Ingredients

Ingredient CAS No Percent Hazardous Camphor 76-22-2 90 - 100% Yes

# . Hazards Identification

**Emergency Overview** 

WARNING! COMBUSTIBLE. CAUSES IRRITATION. HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. EXCEPTIONAL HEALTH HAZARD. BEFORE USING, READ MATERIAL SAFETY DATA SHEET (MSDS) FOR THIS MATERIAL. TARGET ORGAN(S): Nasal septum, eyes, skin, respiratory system.

# J.T. Baker SAF-T-DATA<sup>(tm)</sup> Ratings (Provided here for your convenience)

Jealth Rating: 3 - Severe (Life) Flammability Rating: 2 - Moderate

Reactivity Rating: 0 - None Contact Rating: 2 - Moderate

Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES;

CLASS B EXTINGUISHER

Storage Color Code: Red (Flammable)

### **Potential Health Effects**

#### Inhalation:

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

## Ingestion:

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

#### **Skin Contact:**

Irritation, epileptic seizures, May be absorbed through the skin with possible systemic effects.

#### **Eye Contact:**

rritation, epileptic seizures.

# Chronic Exposure:

No information found.

#### **Aggravation of Pre-existing Conditions:**

Kidney disorders, liver disorders, heart disorders, epilepsy.

# . First Aid Measures

#### Inhalation:

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

#### Ingestion:

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

### **Skin Contact:**

In case of contact, flush skin with water.

# ye Contact:

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

# . Pre Fighting Measures

#### Fire:

Flash point: 66C (151F) CC Autoignition temperature: 466C (871F) Flammable limits in air % by volume: lel: 0.6; uel: 3.5

# **Explosion:**

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.

## Fire Extinguishing Media:

Use alcohol foam, dry chemical or carbon dioxide. (Water may be ineffective.)

## **Special Information:**

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

# . Accidental Release Measures

Vear 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.

# . Handling and Storage

Keep container tightly closed. Store in cool, dry, well-ventilated area away from heat, sparks, or flame. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

# . Exposure Controls/Personal Protection

## Airborne Exposure Limits:

-OSHA Permissible Exposure Limit (PEL): 2 mg/m3 (TWA) -ACGIH Threshold Limit Value (TLV): 2 ppm (TWA), 3 ppm (STEL)

## Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation*, A Manual of Recommended Practices, most recent edition, for details.

# Personal Respirators (NIOSH Approved):

For conditions of use where exposure to the substance is apparent, consult an industrial hygienist. For emergencies, or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

## **Skin Protection:**

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

## **Eye Protection:**

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

# . Physical and Chemical Properties

#### Appearance:

Colorless or white Crystalline solid.

#### Odor:

Aromatic odor.

# olubility:

Slight (0.1-1%)

# Specific Gravity:

0.99

# pH:

No information found.

## % Volatiles by volume @ 21C (70F):

N/A

#### **Boiling Point:**

207C (405F)

# **Melting Point:**

180C (356F)

# Vapor Density (Air=1):

5.2

# Vapor Pressure (mm Hg):

.18 @ 20C (68F)

#### <1

# 0. Stability and Reactivity

# Stability:

Stable under ordinary conditions of use and storage.

# **Hazardous Decomposition Products:**

Carbon monoxide, carbon dioxide.

## **Hazardous Polymerization:**

Will not occur.

## Incompatibilities:

Strong oxidizing agents, metallic salts, combustible materials, organic materials.

#### Conditions to Avoid:

Heat, flame, other sources of ignition, sunlight.

# 1\_Toxicological Information

(Cancel hists)	NTP Carcinogen				
Ingredient	Known	Anticipated	IARC Category		
Camphor (76-22-2)	No	No	None		

# 2. Ecological Information

#### **Environmental Fate:**

No information found.

## **Environmental Toxicity:**

No information found.

# 3. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management ptions. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

# 4 ransport Information

# Domestic (Land, D.O.T.)

Proper Shipping Name: CAMPHOR

Hazard Class: 4.1 UN/NA: UN2717 Packing Group: III

Information reported for product/size: 500G

# International (Water, I.M.O.)

Proper Shipping Name: CAMPHOR

Hazard Class: 4.1 UN/NA: UN2717 Packing Group: III

Information reported for product/size: 500G

# International (Air, I.C.A.O.)

Proper Shipping Name: CAMPHOR

Hazard Class: 4.1 JN/NA: UN2717 Packing Group: III

Information reported for product/size: 500G

# 5. Regulatory Information

\Chemical Inventory Status - Part Ingredient			EC		Australia
Camphor (76-22-2)		Yes	Yes	Yes	Yes
\Chemical Inventory Status - Part	2\				
Ingredient		Korea	a DSL		Phil.
Camphor (76-22-2)		Yes		No	
\Federal, State & International Re					
Ingredient	RQ	TPQ	Li	st Che	A 313 emical Catg.
Camphor (76-22-2)	No			<b></b> -	No
\Federal, State & International Re	gulati	ons -			
Ingredient	CERCL	A		T 3 8	

Camphor (76-22-2) No No Yes

enreal Weapons Convention: No TSCA 12(b): No CDTA: No RA 311/312: Acute: Yes Chronic: Yes Fire: Yes Pressure: No activity: No (Pure / Solid)

Australian Hazchem Code: 1[Z]

Poison Schedule: S6

#### WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

# 6. Other Information

## Label Hazard Warning:

WARNING! COMBUSTIBLE. CAUSES IRRITATION. HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. EXCEPTIONAL HEALTH HAZARD. BEFORE USING, READ MATERIAL SAFETY DATA SHEET (MSDS) FOR THIS MATERIAL. TARGET ORGAN(S): Nasal septum, eyes, skin, respiratory system.

## Label Precautions:

Keep away from heat, sparks, 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.

#### Label First Aid:

If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Prompt action is essential. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

#### **Product Use:**

Laboratory Reagent.

#### **Revision Information:**

Pure. New 16 section MSDS format, all sections have been revised.

## Disclaimer:

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