



Specialized in chemicals

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Material Safety Data Sheet

Borneol

Section 1: Chemical Product and Company Identification

Name: Borneol

Catalog Numbers: AC160650000, AC160650250, AC160651000, AC160655000

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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	By Weight
Borneol	507-70-0	100%

Toxicological Data on Ingredients: Not applicable.

Section 3: Hazards Identification

Warning! Flammable solid. May cause allergic skin reaction. May cause central nervous system effects. May cause eye, skin, and respiratory tract irritation. Target Organs: Central nervous system, skin.

Potential Health Effects

Eye: May cause eye irritation. May cause chemical conjunctivitis and corneal damage.

Skin: May cause mild skin irritation.

Ingestion: May cause central nervous system depression. May cause nausea, vomiting, abdominal pain, and increased salivation.

Inhalation: May cause respiratory tract irritation. Olfactory fatigue may occur. Can produce delayed pulmonary edema.

Chronic: No information found.

Section 4: First Aid Measures

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Section 5: Fire and Explosion Data

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Will burn if involved in a fire. Dust can be an explosion hazard when exposed to heat or flame. Flammable solid. May burn rapidly with flare burning effect. May re-ignite after fire is extinguished.

Extinguishing Media:

For large fires, use water spray, fog or regular foam. Contact professional fire-fighters immediately. For small fires, use dry chemical, carbon dioxide, sand, earth, water spray or regular foam. Cool containers with flooding quantities of water until well after fire is out.

Autoignition

Temperature: Not applicable.

Flash Point: 65 deg C (149.00 deg F)

Explosion

Limits: Lower: Not available

Explosion

Limits: Upper: Not available

NFPA Rating: health: 1; flammability: 2; instability: 0;

Section 6: Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container. Scoop up with a nonsparking tool, then place into a suitable container for disposal. Avoid generating dusty conditions. Remove all sources of ignition.

Section 7: Handling and Storage

Minimize dust generation and accumulation. Avoid contact with skin and eyes. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep away from heat, sparks and flame. Use only in a chemical fume hood. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Storage: Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a tightly closed container. Flammables-area. Store in a cool, dry area away from incompatible substances.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

Exposure Limits

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9: Physical and Chemical Properties

Physical State: Crystalline powder

Color: white

Odor: none reported

pH: Not available

Vapor Pressure: 33.5 mm Hg @ 25 deg C

Vapor Density: 5.31

Evaporation Rate: Not available

Viscosity: Not available

Boiling Point: 210 deg C (410.00fF)

Freezing/Melting Point: 207 - 208 deg C

Decomposition Temperature: Not available

Solubility in water: insoluble

Specific Gravity/Density: Not available.

Molecular Formula: C10H18O

Molecular Weight: 154.25

Section 10: Stability and Reactivity Data

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.
Conditions to Avoid: Incompatible materials, ignition sources, dust generation, excess heat.
Incompatibilities with Other Materials Strong oxidizing agents.
Hazardous Decomposition
Products Carbon monoxide, carbon monoxide, carbon dioxide.
Hazardous Polymerization Has not been reported

Section 11: Toxicological Information

RTECS#: CAS# 464-45-9: DT5095000

LD50/LC50:

RTECS:

CAS# 464-45-9: Draize test, rabbit, skin: 500 mg/24H Mild;

Oral, rat: LD50 = 5800 mg/kg;

Carcinogenicity: L(-)-Borneol - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: Standard Draize Test: Administration onto the skin (rabbit) = 500 mg/24H (Mild).

Section 12: Ecological Information

Not available

Section 13: Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14: Transport Information

US DOT

Shipping Name: BORNEOL

Hazard Class: 4.1

UN Number: UN1312

Packing Group: III

Canada TDG

Shipping Name: Not available

Hazard Class:

UN Number:

Packing Group:

Section 15: Other Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:Not available

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 507-70-0: Not available

Canada

CAS# 507-70-0 is listed on Canada's DSL List

Canadian WHMIS Classifications: B4, D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 507-70-0 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

CAS# 507-70-0 is listed on the TSCA Inventory.

Section 16: Other Information

MSDS Creation Date: 9/02/1997

Revision #7 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we m be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we have been advised of the possibility of such damages.