

Material Safety Data Sheet

Sultan Sultan Healthcare
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U Auth. Rep. (MDD 93/42/EEC)
MDSS GmbH • Schiffgraben 41 • D-30175 Hannover, Germany

FOR CHEMICAL EMERGENCY: CALL INFOTRAC 1-800-535-5053 24 Hrs. per day, 7 days per week
Outside the United States call collect 1-352-323-3500

Date Revised: May 19, 2008

Q-Form 10-111, Rev. D

1. Chemical Identification

Copal Cavity Varnish

Ref #: 10314 (2 oz)

2. Composition/Information on Ingredients

Methylene Chloride (Dichloromethane)

CAS# 75-09-2 Percent: < 80 %

Isopropyl Alcohol (2-Propanol)

CAS# 67-63-0 Percent: < 20 %

3. Hazards Identification

Effects of short-term exposure

The substance irritates the eyes, the skin and the respiratory tract. Continuous exposure could cause lowering of consciousness. Excessive exposure may cause carboxyhemoglobinemia and cardiac arrhythmias leading to unconsciousness and death.

Effects of long-term exposure

Repeated or prolonged contact with skin may cause dermatitis. The substance may have effects on the central nervous system and liver. This substance is possibly carcinogenic to humans.

4. First Aid Measures

Eye Contact: Irrigate with flowing water immediately and continuously for 15 minutes. Consult a physician.

Skin Contact: Wash off in flowing water or shower using soap.

Inhalation: Fresh air and rest. Consult a physician.

Ingestion: Rinse mouth with water. Do not induce vomiting. Give plenty of water to drink. Consult a physician.

5. Fire Fighting Measures

Flash Point 119 F (48 C): closed cup

Extinguishing Media: Dry chemical, alcohol resistant foam, water fog, carbon dioxide.

Special Fire Fighting Procedures: Clear non-fire fighting personnel from area. Wear positive-pressure self-contained breathing apparatus and protective fire fighting clothing.

Unusual Fire and Explosion Hazards: Vapors are flammable and heavier than air and may travel across floor to remote ignition sources. Smoke may contain hazardous and or irritating compounds.

6. Accidental Release Measures

Ventilate area. Wearing gloves, collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and collect in sealable containers.

7. Handling and Storage

Handling: Avoid contact with eyes and skin. Wash thoroughly with soap and water after handling. Keep away from ignition sources. Avoid contact with strong alkali, aluminum, aluminum alloys, and zinc.

Storage: Keep containers tightly closed when not in use. Do not store in plastics, aluminum, aluminum alloys, or zinc.

8. Exposure Controls/Personal Protection

Engineering Controls: Provide exhaust ventilation as necessary to keep airborne levels below exposure guidelines. Eye Protection; Use chemical goggles to protect eyes from splash.

Respiratory Protection: When respiratory protection is required use an approved positive-pressure supplied-air respirator.

Protective Gloves: Wear gloves when skin contact is likely. Hygienic Practices: Wash thoroughly with soap and water after handling.

Exposure Guideline: Methylene chloride: ACGIH TLV is 50 ppm, A3. OSHA PEL is 25 PPM TWA, 125 ppm short-term exposure limit.

9. Physical and Chemical Properties

Appearance: Clear yellowish liquid.

Odor: Ethereal

Specific Gravity 1.17

10. Stability and Reactivity

Stability: Stable under recommended handling and storage conditions (Section 7)

Hazardous Decomposition Products: Hazardous decomposition products of methylene chloride depend upon temperature, air supply and the presence of other materials. Hazardous decomposition products may include and are not limited to hydrogen chloride. Hazardous decomposition products may include trace amounts of chlorine, phosgene. Conditions to Avoid: Product can decompose at elevated temperatures. Avoid ignition sources. Avoid direct sunlight or ultraviolet sources

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11. Toxicological Information

Methylene Chloride

Dermal LD₅₀ has not been determined.

Oral LD₅₀ for rats is 1500 – 2500 mg/kg

Isopropyl Alcohol

Dermal LD₅₀ for rabbits is 12.87 g/kg

Oral LD₅₀ for rats is 4.7 g/kg

Inhalation LC₅₀ for rats is 19000 ppm (v), 8 hrs

12. Ecological Information

Methylene Chloride

- Movement and Partitioning: Bioconcentration potential is low. (BCF less than 100 or Log Pow less than 3).

Measured log octanol/water partition coefficient (log Pow) is 1.25. Henry's Law Constant (H) is estimated to be 3.69E-03 atm-m³/mol. Potential for mobility in soil is very high (Koc between 0 and 50). Soil organic carbon/water partition coefficient (Koc) is estimated to be 24.

- Degradation & Persistence: Based on the stringent test guidelines, this material cannot be considered as readily biodegradable, however, these results do not necessarily mean that the material is not biodegradable under environmental conditions. Biodegradation rate may increase soil and/or water with acclimation. In the atmospheric environment, material is estimated to have a tropospheric half-life of 79 – 110 days. Biodegradation reached in Modified MITI Test (I) (OECD Test No. 301C) after 28 days: %26%.

- Ecotoxicity: Material is practically non-toxic to aquatic organisms on an acute basis (LC₅₀/EC₅₀ >100 mg/L in most sensitive species).

13. Disposal Considerations

If this material becomes a waste material it becomes an ignitable, toxic waste. Do not dump into any sewers, on the ground, or into any body of water. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations.

14. Transport Information

Domestic Ground, Air

Proper Shipping Name: Consumer Commodity

Hazard Class: ORM-D

Ocean, International Air

Proper Shipping Name: Flammable liquid, toxic nos (Isopropyl Alcohol, Dichloromethane)

Hazard Class: 3

Identification Number: UN 1992

Packing Group: III

15. Regulatory Information

U.S. Regulations

- Methylene Chloride and Isopropyl Alcohol listed Toxic Substance Control Act (TSCA) Superfund Amendment & Reauthorization Act (SARA) Hazard Categories (311/312): An immediate and delayed health hazard Toxic Release Inventory (313)
- Methylene Chloride listed as a hazardous chemical Occupational Safety And Health Act (OSHA) Comprehensive Environmental Response Compensation and Liability Act (CERCLA, or SUPERFUND)

California Proposition 65

- Methylene Chloride: Warning: This product contains a chemical known to the State of California to cause cancer.
- New Jersey Right To Know Chemical List (NJ2, NJ3): Dichloromethane (Methylene Chloride) CAS # 75-09-2 Isopropyl Alcohol CAS # 67-63-0
- Pennsylvania Right To Know Chemical List (PA1, PA2, PA3): Dichloromethane (Methylene Chloride) CAS # 75-09-2 Isopropyl Alcohol CAS # 67-63-0

16. Other Information

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. In no event will the manufacturer or the distributor be responsible for damages of any nature whatsoever resulting from the use of or reliance upon this information. General properties are to be regarded as guidelines and are not guaranteed for all samples.