MATERIAL SAFETY DATA SHEET

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MSDS No.: CC0200
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SECTION I NAME
24 HOUR EMERGENCY ASSISTANCE

Product: Carnoy’s Solution
Chemical Synonyms: Lebrun Fixative
Formula: Mixture *
Unit Size: up to 3.785 L
C.A.S. No.: Mixture.

SECTION II INGREDIENTS OF MIXTURES
Principal Component(s) % TLV Units
Ethyl alcohol, denatured: (CAS No. 64-17-5) 59% 1000 ppm; 1880 mg/m 3
Chloroform: (CAS No. 67-66-3) 30% 10, A2 ppm; 49, A2 mg/m 3
Acetic acid, glacial: (CAS No. 64-19-7) 11% 10 ppm, 25 mg/m 3

DANGER: Flammable! Poison! Harmful if inhaled or swallowed. Causes irritation on contact. Contains chloroform, a suspected carcinogen. Can cause adverse reproductive effects.

SECTION III PHYSICAL DATA
Melting Point (°F) Approx. -65°C (-85°F) Specific Gravity (H 2 O = 1) 1.0 @ 20°C
Boiling Point (°F) Unknown; range 61°-118°C (141°-244°F) Percent Volatile by Volume (%) 100%
Vapor Pressure (mm Hg) (Chloroform) 100 mm @ 10.4°C Evaporation Rate (% by Volume) > 1
Vapor Density (Air=1) (Chloroform) 4.12
Solubility in Water Approximately 70 mL Carnoy’s Solution per 100 mL water.
Appearance & Odor Clear, colorless liquid; mild, sweet, vinegar odor.

SECTION IV FIRE AND EXPLOSION HAZARD DATA
Flash Point (Method Used) 23.86°C (75°F) Flammable Limits in Air % by Volume Ethyl Alc. Lower Upper
23.86°C (75°F) 3.3% 19%
Extinguisher Media Water spray; carbon dioxide; dry chemical.

Special Firefighting Procedures
In fire conditions, wear a NIOSH/MSHA-approved, self-contained breathing apparatus and full protective clothing.

Denaturants:
Methanol: (CAS No. 67-56-1), Methylene dichloride: (CAS No. 107-14-8), Isopropyl alcohol: (CAS No. 67-63-0).

Unusual Fire and Explosion Hazards
Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials.

NOTE: Burns with a clear, almost invisible flame, especially hard to see in strong sunlight.

(2004 EMERGENCY RESPONSE GUIDEBOOK, RSPA P 5800.9, GUIDE PAGE NO. 131)


SECTION V HEALTH HAZARD DATA
Threshold Limited Value
None established for this mixture.

Effects of Overexposure
Prolonged inhalation of high concentration or repeated exposures to low concentrations causes CNS depression and may result in liver or kidney and possible cardiac sensitization. Contact with eyes causes irritation and may be painful. Prolonged or repeated contact with the skin causes defatting and cracking of skin. To the best of our knowledge, this chemicals mixture, physical and toxicological properties have not been thoroughly investigated. Target organs: Eyes, central nervous system, liver, kidneys.

Emergency and First Aid Procedures
INGESTION: Call physician or Poison Center Control immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. EYES: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. SKIN: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI REACTIVITY DATA
Stability Unstable Conditions to Avoid
Open flame, excessive temperature and heat.
Incompatibility (Materials to Avoid)
Excessive water, strong alkalies, oxidizing materials.

Hazardous Decomposition Products
Phosgene, hydrochloric acid, carbon oxides.

Hazardous Polymerization
May Occur
Will Not Occur

SECTION VII SPILL OR LEAK PROCEDURES
Steps to be taken in case material is released or spilled
Wear suitable protective clothing and have good ventilation, absorb spill with an inert dry material, and place in suitable container for disposal. Wash spill area with soap and water.

Waste disposal Method
Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Dispose of in an approved incinerator equipped with an afterburner and scrubber.

SECTION VIII SPECIAL PROTECTION INFORMATION
Respiration Protection (Specify Type) Work in ventilation hood or wear a NIOSH/MSHA-approved respirator.
Ventilation Local Exhaust Recommended. Special No.
Mechanical (General) Recommended. Special Other No.
Protective Gloves Rubber, Chemical safety goggles.
Other Protective Equipment Faceshield, lab coat, ventilation hood, proper gloves, fire extinguisher, eye wash station.

SECTION IX SPECIAL PRECAUTIONS
Precautions to be Taken in Handling & Storing
Store in a cool, dry, well-ventilated place, preferably not above 30°C (86°F). Wash thoroughly after handling. Avoid contact with skin, eyes and mucous membranes.

Other Precautions
Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Avoid breathing vapors. Use with adequate ventilation. Laboratory studies have shown chloroform, a component of this product produces cancer in animals. Handle as a suspected carcinogen. Chronic exposure may cause embryo-fetal injury. Remove and wash contaminated clothing.

WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

Revised No. 13 Date 01/01/07 Approved James A. Bertsch
Chemical Safety Coordinator JAB

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Approved by U.S. Department of Labor “essentially similar” to form OSHA-20