

MATERIAL SAFETY DATA SHEET**Section 1 – PRODUCT AND SAFETY SUPPLIER INFORMATION**

Product Name: Iodine Fixative
Common Name: Iodine Fixative
Supplier: Armor Holdings Forensics, Inc.
13386 International Parkway, Jacksonville, FL 32218
Emergency Telephone: Chemtel® United States (800) 255-3924 International – 813-248-0585 (Collect)
Date Prepared: December 20, 2005

Section 2 – HAZARDOUS INGREDIENTS

<u>Ingredient</u>	<u>CAS#</u>	<u>Percent</u>	<u>PEL (OSHA)</u>	<u>TLV (ACGIH)</u>
<u>Chloroform</u>	<u>67-66-3</u>	<u>17.42</u>	<u>50 ppm</u>	<u>10 ppm</u>
<u>Cyclohexane</u>	<u>110-82-7</u>	<u>82.23</u>	<u>100 ppm</u>	<u>300 ppm</u>

Section 3 – PHYSICAL/CHEMICAL PROPERTIES

Appearance and Odor: Clear, colorless liquid with organic odor.
Specific Gravity: 0.9024 Solubility in Water: Insoluble
Boiling Point: 61, 81 C Melting Point: 7 C
Vapor Density: 3 to 4.1 Vapor Pressure (mmHg): Chloroform 160 @ 20 C
Cyclohexane 95 @ 20
Evaporation Rate: Chloroform 11.67, Cyclohexane 2.6 Percent Volatile: 99.65
(ether = 1)

Section 4 – FIRE AND EXPLOSION DATA

Flash Point: -18 C (cc) UEL: 1.3 LEL: 8.0
Extinguishing Media: Dry chemical, foam, or CO2. Water may be ineffective.
Firefighting Procedures: Wear SCBA.
Unusual Fire and Explosion Hazards: Highly flammable. Vapors can flow along surfaces to distant ignition sources and flash back.



Section 5 – REACTIVITY DATA

Stability: Yes Hazardous Polymerization: No
Incompatibilities: Strong oxidizers, strong caustics, reactive metals such as aluminum, magnesium, sodium, and potassium; light, heat, air, and sources of ignition.
Hazardous Decomposition Products: CO_x, HCl, phosphine.

Section 6 – HEALTH HAZARD INFORMATION

Health Hazards: Moderate to severe poison. May cause CNS effects such as headache, drowsiness, dizziness, unconsciousness and may be fatal or narcotic in high concentrations. Acts as an anesthetic. Irritates eyes, skin and respiratory tract. Ingestion may produce abdominal pain, nausea, and severe burning of the mouth, throat, and chest.

Routes of Entry and First-Aid Procedures:

Eyes: Rinse with water for at least 15 minutes. Get medical attention immediately.

Inhalation: Remove to fresh air. If not breathing give artificial respiration. If breathing give oxygen. Call a physician.

Skin: Rinse with soap and water for at least 15 minutes. Get medical attention immediately.

Ingestion: Do not induce vomiting. Keep head below hips to avoid aspiration. Call a physician immediately.

Signs and Symptoms of Exposure: Coughing, shortness of breath, irritation, burning.

Medical Conditions Aggravated by Exposure: Pre-existing skin, eye, kidney, liver, and respiratory problems.

Section 7 – EXPOSURE CONTROLS

Respirator Protection: Full-face respirator with organic vapor cartridge.

Ventilation: Local or general to keep below exposure limits.

Protective Gloves: Impervious Eye Protection: Splash goggles or safety glasses.

Other Protective Equipment: Impervious clothing as appropriate to prevent skin contact.

Work and Hygienic Practices: Wash thoroughly after handling. Avoid exposure by wearing appropriate protective equipment.

Section 8 – SPILL OR LEAK PROCEDURES

Steps to be taken if material is spilled or released: Remove all sources of ignition. Absorb with non-combustible material.

Waste Disposal Method: Dispose of container and unused contents in accordance with federal, state, and local requirements. Significant quantities should be considered as hazardous waste and sent to an RCRA approved waste facility.



Section 9 – PRECAUTIONS FOR SAFE HANDLING AND USE

Special Precautions: Extremely flammable.

Storage Method: Keep containers tightly sealed and store away from light, heat, sources of ignition, and incompatible materials.

Section 10 – TOXICOLOGICAL DATA

Carcinogenicity: Chloroform is reasonable anticipated to be an animal class 2B carcinogen.

NPT: No

OSHA: No

IARC: Yes

Acute Inhalation LC50: 66 g m-3/4hrs.

Acute Dermal LD50: No data reported.

Acute Oral LD50: 12,000 mg/kg (rat)

Section 11 – ECOLOGICAL DATA

This material is expected to be slightly toxic to aquatic life. The LC50/96-hr values for fish are between 10-100 mg/l.

Section 12 – TRANSPORTATION IDENTIFICATION

Proper Shipping Name: Cyclohexane

Identification Number: UN 1145 Hazard Class: 3

Packing Group: II