

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

Product Name: Hungarian Red
Common Name: Hungarian Red
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: 9/9/05

Section 2 – HAZARDOUS INGREDIENTS

<u>Ingredient</u>	<u>CAS#</u>	<u>Percent</u>	<u>PEL (OSHA) TLV (ACGIH)</u>
<u>Dye (trade secret)</u>		<u>1-5%</u>	<u>Not established</u>
<u>Acetic acid</u>	<u>64-19-7</u>	<u>5-10%</u>	<u>10 ml/m³ – 25 mg/m³</u>

Section 3 – PHYSICAL/CHEMICAL PROPERTIES

Appearance and Odor: Dark red liquid with pungent, vinegar-like odor
Specific Gravity: 1 Stability in Water: Yes
Boiling Point: 100°-118°C Melting Point: -5° C
Vapor Density: Not Determined
Vapor Pressure (mmHg): Not Determined
Evaporation Rate: Not Determined
Percent Volatile: 95-99%

Section 4 – FIRE AND EXPLOSION DATA

Flash Point: Not determined UEL: Not determined LEL: Not determined
Extinguishing Media: As appropriate for surrounding fire
Firefighting Procedures: As appropriate for surrounding fire
Unusual Fire and Explosion Hazards: None

Section 5 – REACTIVITY DATA

Stability: Yes Hazardous Polymerization: Will not occur
Incompatibilities: Contact with metals (particularly aluminum)
Hazardous Decomposition Products: NO_x

Section 6 – HEALTH HAZARD INFORMATION

Health Hazards: Corrosive, irritant

Routes of Entry and First-Aid Procedures:

Eyes: Hold the eyelids wide open and rinse thoroughly with warm water. If discomfort persists, seek medical attention

Inhalation: Move the individual to fresh air. In case of respiratory problems, seek medical advice

Skin: Wash with soap and water. Remove contaminated clothing

Ingestion: Drink plenty of water. Do not induce vomiting. Seek medical attention.

Signs and Symptoms of Exposure: No data available

Medical Conditions Aggravated by Exposure: No data available

Section 7 – EXPOSURE CONTROLS

Respirator Protection: Wear filter mask in case of aerosols

Ventilation: Sufficient to keep below exposure limits

Protective Gloves: Impervious Rubber Eye Protection: Tight fitting safety glasses

Other Protective Equipment: Appropriate clothing to prevent skin exposure

Work and Hygienic Practices: Use good laboratory practices

Section 8 – SPILL OR LEAK PROCEDURES

Steps to be taken if material is spilled or released: Larger amounts of the product should not be allowed to enter the sewage system, surface water or ground water. Take up with absorbing material and forward for disposal in a closed container

Waste Disposal Method: In compliance with all regulations

Section 9 – PRECAUTIONS FOR SAFE HANDLING AND USE

Special Precautions: No special precautions necessary

Storage Method: Keep in a tightly closed container

Section 10 – TOXICOLOGICAL DATA

Carcinogenicity:

NPT: No

OSHA: No

IARC: No

Acute Inhalation LC50: Not established

Acute Dermal LD50:

Skin tolerance: no significant effects reported

Mucous membranes: slightly irritating

Acute Oral LD50:

Dye: > 2000 mg/kg based on knowledge of similar dyes

Acetic acid: 3310 mg/kg



Section 11 – ECOLOGICAL DATA

Biological degradability: Acetic acid is readily biodegradable. No data is available on the dye.

Fish toxicity: Acetic acid is toxic for water organisms, due to lowering of the pH. No data is available on the dye.

Section 12 – TRANSPORTATION IDENTIFICATION

Proper Shipping Name: Not applicable

Identification Number: N/A

Hazard Class: N/A

Packing Group: N/A