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### Manufacturer's Information

**Manufacturer's Name:** AMERICAN MICROSCAN/SACRAMENTO, CA 95819

**Manufacturer's Address1:**

**Manufacturer's Address2:** N/P, NK 00000

**Manufacturer's Country:** NK

**General Information Telephone:**

**Emergency Telephone:** (916) 739-6033

**Emergency Telephone:** (916) 739-6033

**MSDS Preparer's Name:** N/P

**Proprietary:** N

**Reviewed:** Y

**Published:** Y

**CAGE:** 00014

**Special Project Code:** N

### Contractor Information

**Contractor's Name:** AMERICAN MICROSCAN

**Post Office Box:** N/K

**Contractor's Address1:** 855 57TH STREET

**Contractor's Address2:** SACRAMENTO, CA 95819

**Contractor's Telephone:** (916) 739-6033

**Contractor's CAGE:** 00014

### Section 2 - Composition/Information on Ingredients KOVAC'S REAGENT

**Ingredient Name:** HYDROCHLORIC ACID

**Ingredient CAS Number:** **Ingredient CAS Code:** X

**RTECS Number:** MN4025000 **RTECS Code:** M

**=WT: =WT Code:**

**=Volume: =Volume Code:**

**>WT: >WT Code:**

**>Volume: >Volume Code:**

**<WT: 2 0 Td (W)Tj 12 0 Td (T)Tj 8.04 0 Td (: )Tj 4.013.56 Td (=)Tj 6.72 0 T**

**Ingredient Name:** ISOAMYL ALCOHOL (PRIMARY &

**RTECS Number: ZC0110000 RTECS Code: M**  
**=WT: =WT Code:**  
**=Volume: =Volume Code:**  
**>WT: >WT Code:**  
**>Volume: >Volume Code:**  
**<WT: <WT Code:**  
**<Volume: <Volume Code:**  
**% Low WT: % Low WT Code:**  
**% High WT: % High WT Code:**  
**% Low Volume: % Low Volume Code:**  
**% High Volume: % High Volume Code:**  
**% Text: 17%**  
**% Enviromental Weight:**  
**Other REC Limits: N/P**  
**OSHA PEL: N/P OSHA PEL Code:**  
**OSHA STEL: OSHA STEL Code:**  
**ACGIH TLV: N/K ACGIH TLV Code: M**  
**ACGIH STEL: N/P ACGIH STEL Code:**  
**EPA Reporting Quantity:**  
**DOT Reporting Quantity:**  
**Ozone Depleting Chemical: N**

**Section 3 - Hazards Identification, Including Emergency Overview**  
**KOVAC'S REAGENT**

**Health Hazards A**

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**First Aid:**

EYES/SKIN: WASH W/PLENTY OF WATER FOR AT LEAST 15 MINS & GET MED ATTN.  
INGESTION: GIVE PLENTY OF WATER TO DRINK, IF CONSCIOUS. CALL PHYSICIAN.  
INHALATION: REMOVE FROM EXPOSURE. GIVE ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED/CALL PHYSICIAN.

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**Section 5 - Fire Fighting Measures**  
**KOVAC'S REAGENT**

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**Fire Fighting Procedures:**

WEAR SCBA & FULL PROTECTIVE CLOTHING.

**Unusual Fire or Explosion Hazard:**

IRRITATING/CORROSIVE HCl GAS/POTENTIALLY CARCINOGENIC FUMES RELEASED WHEN HEATED.

**Extinguishing Media:**

CO<sub>2</sub>, DRY CHEMICAL

**Flash Point:** **Flash Point Text:** UNTESTED

**Autoignition Temperature:**

**Autoignition Temperature Text:** N/A

**Lower Limit(s):** 1.2%

**Upper Limit(s):** 9%

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**Section 6 - Accidental Release Measures**  
**KOVAC'S REAGENT**

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**Spill Release Procedures:**

WEARING SUITABLE PROTECTIVE EQUIPMENT & CLOTHING, ABSORB SUBSTANCE ONTO ABSORBANT MATERIAL SUCH AS VERMICULITE. NEUTRALIZE. WASH SPILL AREA WELL WITH SOAP & WATER.

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**Section 7 - Handling and Storage**  
**KOVAC'S REAGENT**

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**Handling and Storage Precautions:****Other Precautions:**

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**Section 8 - Exposure Controls & Personal Protection**  
**KOVAC'S REAGENT**

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**Respiratory Protection:**

APPROVED ORGANIC VAPOR CANISTER MASK OR SCBA.

**Ventilation:**

PROVIDE LOCAL EXHAUST VENTILATION TO KEEP **Protective Gloves:** IMPERVIOUS

**Eye Protection:** SAFETY GOGGLES

**Other Protective Equipment:** CLOTHES AS NECESSARY TO PREVENT SKIN EXPOSURE. EYEWASH.

**Work Hygienic Practices:** N/P

**Supplemental Health & Safety Information:** MSDS DATE: 10/84

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**Section 9 - Physical & Chemical Properties  
KOVAC'S REAGENT**

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**HCC:**

**NRC/State License Number:**

**Net Property Weight for Ammo:**

**Boiling Point: Boiling Point Text:** 180F

**Melting/Freezing Point: Melting/Freezing Text:** N/A

**Decomposition Point: Decomposition Text:** N/A

**Vapor Pressure: 27 Vapor Density:** 2.5

**Percent Volatile Organic Content:**

**Specific Gravity:** 1.1

**Volatile Organic Content Pounds per Gallon:**

**pH:** N/P

**Volatile Organic Content Grams per Liter:**

**Viscosity:** N/P

**Evaporation Weight and Reference:** NOT TESTED

**Solubility in Water:** COMPLETE

**Appearance and Odor:** COLORLESS TO LIGHT YELLOW LIQUID; PUNGENT ODOR.

**Percent Volatiles by Volume:** 90%

**Corrosion Rate:** N/P

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**Section 10 - Stability & Reactivity Data  
KOVAC'S REAGENT**

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**Stability Indicator:** YES

**Materials to Avoid:**

STRONG OXIDIZERS AND STRONG CAUSTICS

**Stability Condition to Avoid:**

EXCESSIVE HEAT

**Hazardous Decomposition Products:**

HCl GAS. TOXIC POX GAS, AMYL ALCOHOL VAPOR-CARCINOGEN.

**Hazardous Polymerization Indicator:** NO

**Conditions to Avoid Polymerization:**

N/K

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**Section 11 - Toxicological Information  
KOVAC'S REAGENT**

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**Toxicological Information:**

N/P

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**Section 12 - Ecological Information  
KOVAC'S REAGENT**

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**Ecological Information:**

N/P

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**Section 13 - Disposal Considerations**

## **KOVAC'S REAGENT**

### **Waste Disposal Methods:**

CONTRACT FOR REMOVAL TO LANDFILL W/EPA-APPROVED VENDOR. ALTERNATIVELY, MIX W/FLAMMABLE SOLVENT & INCINERATE. FOLLOW FEDERAL, STATE & LOCAL REGULATIONS.

### **Section 14 - MSDS Transport Information KOVAC'S REAGENT**

#### **Transport Information:**

N/P

### **Section 15 - R**

**Reactivity Hazard:**

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