

# Material Safety Data Sheet

MSDS No. D001

Date of Review: 2/15/2010

Supersedes MSDS dated: 2/8/07

## SECTION 1 - PRODUCT IDENTIFICATION

**Product Name:** VK-1 General Purpose Cleaner

**Product Code:** 50036202, 50036202CN

**Synonyms:** NA

**Manufacturer:** Heraeus Kulzer, LLC  
300 Heraeus Way  
South Bend, IN 46614-2517  
Phone: 800-431-1785  
FAX: 800-522-1545  
Hours: 8:00 A.M. - 4:30 P.M.  
After Hours: Chemtrec @ 1-800-424-9300

## SECTION 2 - CHEMICAL COMPOSITION / HAZARDOUS INGREDIENTS

MATERIALS	CAS #	HAZARD	% WT.	OSHA PEL	ACGIH TLV
Isopropyl Alcohol	67-63-0	Flammable	3 - 5	400 ppm	400 ppm
Potassium Hydroxide	1310-58-3	Corrosive	1 - 3	2 mg/m <sup>3</sup> Ceiling	2 mg/m <sup>3</sup>

## SECTION 3 - HAZARDS IDENTIFICATION

### \*\*\* POTENTIAL HEALTH EFFECTS \*\*\*

**Target Organs:** Eyes, Skin, Respiratory System, Accidental Ingestion

**Signs and Symptoms of Short-Term (Acute) Exposure:** Prolonged exposure to alcohol vapors may cause dizziness, headaches, and nausea.

**Effects of Long-Term (Chronic) Exposure:** Skin irritation; prolonged exposure to alcohol vapors may cause dizziness, headaches and nausea.

**Medical Conditions Aggravated by Exposure:** None Known

**Hygienic Practices:** Do not place in unlabelled container. Wash hands after use.

**Carcinogenicity:** IARC, NTP, and OSHA do not list any of the ingredients as a carcinogen.

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#### SECTION 4 - FIRST AID MEASURES

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

**Eye Contact:** Remove contact lenses. Flush eyes with plenty of water at least 15 minutes. If irritation occurs, contact physician.

**Skin Contact:** Immediately wash with plenty of water and remove contaminated clothing.

**Ingestion:** If swallowed, seek medical advice immediately. Do not induce vomiting.

#### SECTION 5 - FIRE-FIGHTING MEASURES

**Fire Hazards/Conditions of Flammability:** None Known

**Flash Point (Method):** 126°F TCC (52.2°C TCC)

**Lower Flammable Limit (% by volume):** Not Applicable

**Upper Flammable Limit (% by volume):** Not Applicable

**Suitable Extinguishing Media:** Water spray, Dry chemical, Carbon Dioxide

**Special Fire-Fighting Procedures/Equipment:** Do not release runoff from fire control methods to sewers or waterways. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.

#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Not Applicable

**Environmental Precautions:** Not Applicable

**Spill/Leak Procedures:** Spills should be taken up with suitable absorbent and placed in containers. Spill area can be washed with water. Collect wash water for approved disposal.

#### SECTION 7 - HANDLING AND STORAGE

**Handling and Storing Precautions:** Do not allow material to freeze.

#### SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

**Ventilation and Engineering Controls:** None Known

**Respiratory Protection:** None Known

**Protective Gloves:** Wear gloves to prevent prolonged or repeated skin contact.

**Eye Protection:** Wear protective eyeglasses or chemical safety goggles, per OSHA eye and face protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

**Other Protective Equipment:** None Known

**Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

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## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Physical Form, Color and Odor:** Transparent blue liquid

**Odor Threshold:** Mild

**pH:** 11.5 - 12.2

**Boiling Point:** 213°F

**Melting/Freezing Point:** Not Applicable

**Vapor Pressure:** Not Applicable

**Solubility in Water:** Very soluble

**Coefficient of Oil/Water Distribution:** Not Applicable

**Specific Gravity or Relative Density (water =1):** 1.06

**Vapor Density (air =1):** Not Applicable

**Volatile Organic Compounds (VOC's):** Not Applicable

**% Volatile by Volume:** 90.5%

**Evaporation Rate:** Not Applicable

## SECTION 10 - STABILITY AND REACTIVITY

**Stability and Reactivity:** Stable

**Conditions to Avoid:** Avoid contact with strong acids.

**Materials to Avoid:** Avoid contact with strong acids, metals, such as aluminum and tin.

**Hazardous Decomposition Products:** Combustible. Harmful if inhaled. May cause eye and skin irritation.

**Hazardous Polymerization:** Will Not Occur

## SECTION 11 - TOXICOLOGICAL INFORMATION

**Routes of Exposure:** Eyes, Skin, Inhalation of Vapors

**Toxicological Data:** Isopropyl Alcohol LD<sub>50</sub> (Oral Rat) / 5840 mg/kg; Potassium Hydroxide LD<sub>50</sub> (Oral Rat) - 365 mg/kg

**Teratogenicity, Mutagenicity, Other Reproductive Effects:** No Data Available

**Sensitization to Material:** No Data Available

## SECTION 12 - ECOLOGICAL INFORMATION

**General Notes:** None Known

## SECTION 13 - DISPOSAL CONSIDERATIONS

**Disposal:** Follow applicable Federal, State and Local regulations.

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## SECTION 14 - TRANSPORTATION INFORMATION

**Transportation of Dangerous Goods (TDG) Information:** Not Applicable

*Shipping Description:*

**49 CFR Information:** Not Applicable

*Shipping Description:*

**International Dangerous Goods Information:** Not Applicable

*IMO:*

*ICAO:*

**Other Information:** Not Applicable

## SECTION 15 - REGULATORY INFORMATION

**WHMIS Information:** Not Applicable

**WHMIS Classification:** D2 material causing other toxic effects; B - flammable

**CEPA Information:** None Known

**TSCA Information:** Components of this product is on the TSCA list.

**SARA Title III:** Isopropyl Alcohol is regulated as a toxic chemical under Section 3B of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR parts 372.

## SECTION 16 - OTHER INFORMATION

**Prepared By:** Regulatory Department

### **Additional Notes or References:**

**ACGIH:** American Conference of Governmental Industrial Hygienists

**IARC:** International Agency for Research on Cancer

**NIOSH:** National Institute for Occupational Safety and Health

**WHMIS:** Workplace Hazardous Materials Information System

**Revision:** Noted

We believe that the information contained herein is current as of the date of this Material Safety Data Sheet. Since the use of this information and these opinions and the conditions of use of the product are not within the control of Heraeus Kulzer, Inc., it is the user's obligation to determine the conditions of safe use of the product.