

# Material Safety Data Sheet

**MSDS No. D008**

**Date of Review:** August 3, 2011

**Supersedes MSDS dated:** February 8, 2007

## SECTION 1 - PRODUCT IDENTIFICATION

**Product Name:** VacuKleen E<sup>2</sup>

**Product Code:** 50036100, 50036101, 50036102

**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
Ethylenediaminetetra- acetic Acid	60-00-4		3 - 10	Not Est.	Not Est.
Sodium Metasilicate, pentahydrate	6834-92-0	Irritant	3 - 10	Not Est.	Not Est.
Protease	9014-01-1	Irritant	15 - 25	Not Est.	Not Est. 0.06 mg/m <sup>3</sup> substilisins (as pure crystalline enzyme)

### SECTION 3 - HAZARDS IDENTIFICATION

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

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

**Signs and Symptoms of Short-Term (Acute) Exposure:**

*Eye:* Irritant - Avoid contact with eyes.

*Skin:* Irritant - Avoid contact with skin.

*Inhalation:* Irritant - Avoid breathing dust or aerosol.

*Ingestion:* Harmful if swallowed.

**Effects of Long-Term (Chronic) Exposure:** None Known

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

**Hygienic Practices:** None Known

**Carcinogenicity:** IARC, NTP, and OSHA do not list VacuKleen E<sup>2</sup> as a carcinogen.

### SECTION 4 - FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If breathing is difficult, get medical attention.

**Eye Contact:** Remove contact lenses. Immediately flush with water. Get immediate medical attention.

**Skin Contact:** Flush with water. If irritation persists, get medical attention.

**Ingestion:** Drink large amounts of water. Do not induce vomiting.

### SECTION 5 - FIRE-FIGHTING MEASURES

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

**Flash Point (Method):** Not Applicable

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

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

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

**Special Fire-Fighting Procedures/Equipment:** None Known

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Not Applicable

**Environmental Precautions:** Not Applicable

**Spill/Leak Procedures:** Sweep or vacuum spilled material into a waste container for disposal. Avoid creating excessive dust. Spill area should be flushed with water.

### SECTION 7 - HANDLING AND STORAGE

**Handling and Storing Precautions:** Keep in a cool dry place. Keep out of reach of children.

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

**Ventilation and Engineering Controls:** None Known

**Respiratory Protection:** Use NIOSH-OSHA approved device if adequate ventilation can't be provided.

**Protective Gloves:** Wear rubber or vinyl 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.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Physical Form, Color and Odor:** Light yellow powder

**Odor Threshold:** Mild lemon fragrance

**pH:** Not Applicable

**Boiling Point:** Not Applicable

**Melting/Freezing Point:** Not Applicable

**Vapor Pressure:** Not Applicable

**Solubility in Water:** Not Applicable

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

**Specific Gravity or Relative Density (water =1):** Not Applicable

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

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

**Evaporation Rate:** Not Applicable

## SECTION 10 - STABILITY AND REACTIVITY

**Stability and Reactivity:** Stable

**Conditions to Avoid:** None Known

**Materials to Avoid:** None Known

**Hazardous Decomposition Products:** None Known

**Hazardous Polymerization:** Will Not Occur

## SECTION 11 - TOXICOLOGICAL INFORMATION

**Routes of Exposure:** No Data Available

**Toxicological Data:** No Data Available

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

**Sensitization to Material:** No Data Available

MSDS No. D008

## SECTION 12 - ECOLOGICAL INFORMATION

**General Notes:** None Known

## SECTION 13 - DISPOSAL CONSIDERATIONS

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

## 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:** Not Applicable

**CEPA Information:** Not Applicable

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

**SARA Title III:** Not Applicable

## 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.