

Material Safety Data Sheet

MSDS No. D003

Date of Review: February 11, 2013

Supersedes MSDS dated: February 15, 2010

SECTION 1 - PRODUCT IDENTIFICATION

Product Name: Dri-Clave VK-4 Tartar and Stain Remover

Product Code: 50036208, 50036208CN

Synonyms: Sulfamic Acid Solution

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
Sulfamic Acid	5329-14-6	Corrosive	10 - 15	----	----

SECTION 3 - HAZARDS IDENTIFICATION

*** POTENTIAL HEALTH EFFECTS ***

Target Organs: Eyes, Skin, Accidental Ingestion

Signs and Symptoms of Short-Term (Acute) Exposure: Skin irritation or burns

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

Medical Conditions Aggravated by Exposure: None Known

Hygienic Practices: Do not place in unlabeled container.

Carcinogenicity: IARC, NTP, and OSHA does not list Dri-Clave VK-4 Tartar and Stain Remover as a carcinogen.

SECTION 4 - FIRST AID MEASURES

Inhalation: None Known

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Obtain medical attention if irritation continues.

Skin Contact: Immediately flush skin with plenty of water and soap.

Ingestion: If swallowed, seek medical advice immediately.

SECTION 5 - FIRE-FIGHTING MEASURES

Fire Hazards/Conditions of Flammability: None Known

Flash Point (Method): 210°F TCC

Lower Flammable Limit (% by volume): Not Determined

Upper Flammable Limit (% by volume): Not Determined

Suitable Extinguishing Media: CO₂, Dry chemical

Hazardous Combustion Products: Not Applicable

Special Fire-Fighting Procedures/Equipment: Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin.

Environmental Precautions: Not Determined

Spill/Leak Procedures: Treat as acid spill. Use absorbent to collect material.

SECTION 7 - HANDLING AND STORAGE

Handling and Storing Precautions: Keep away from heat.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation and Engineering Controls: None Known

Respiratory Protection: None Known

Protective Gloves: Wear latex gloves; non-impervious

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: Clear liquid
Odor Threshold: Sweet
pH: 0.5 - 0.9
Boiling Point: 214°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): 1.09 g/ml
Vapor Density (air =1): Not Applicable
Volatile Organic Compounds (VOC's): Not Applicable
% Volatile by Volume: 86%
Evaporation Rate: Not Applicable

SECTION 10 - STABILITY AND REACTIVITY

Stability and Reactivity: Stable
Conditions to Avoid: None Known
Materials to Avoid: Contacts with strong alkaline materials
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

SECTION 12 - ECOLOGICAL INFORMATION

General Notes: None Known

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal: This material is corrosive. Follow applicable Federal, State and Local regulations.

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SECTION 14 - TRANSPORTATION INFORMATION

Because the mode of transportation is not under our control after initial distribution, and the labeling and regulatory requirements vary based on the mode, please refer to 49 CFR for the specific information.

SECTION 15 - REGULATORY INFORMATION

WHMIS Information: Not Applicable

WHMIS Classification: E

CEPA Information: Not Applicable

TSCA Information: Component(s) of this product is on the TSCA list.

SARA Title III: Not Applicable

SECTION 16 - OTHER INFORMATION

Prepared By: Regulatory Department

Additional Notes or References: Oral LD₅₀ for Sulfamic Acid is 3160mg/kg; Rabbit dermal 500mg/24 hr. produced severe irritation.

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.