

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product identifier used on the label:

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

50036208, 50036208CN Product Code:

SDS Manufacturer Number: D003

 $\underline{\hbox{Other means of identification:}}$

Synonyms: Sulfamic Acid Solution

Recommended use of the chemical and restrictions on use:

Tartar and stain removing ultrasonic solution. Product Use/Restriction:

 $\underline{\hbox{Chemical manufacturer address and telephone number:}}\\$

Manufacturer Name: Kulzer, LLC (Mitsui Chemicals Group)

Address: 4315 South Lafayette Blvd South Bend, Indiana 46614-2517

USA

General Phone Number: 800-431-1785

Emergency phone number:

Chemtrec @ 1-800-424-9300 Emergency Phone Number:

SECTION 2: HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

GHS Pictograms:

Signal Word:

GHS Class: Serious Eye Damage. category 1.

Skin corrosion, category 1

Hazard Statements: H318 - Causes serious eye damage.

H314 - Causes severe skin burns and eye damage.

Precautionary Statements:

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do not induce vomiting.
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower. P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

r303-r331-r336 - Ir in Etcs. Kinse Cautiously with water for sif present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor/physician.

P321 - Specific treatment (see ... on this label).

P363 - Wash contaminated clothing before reuse.

P405 - Store locked up.
P501 - Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.

 $\underline{\text{Hazards not otherwise classified that have been identified during the classification process:} \\$

Route of Exposure: Eyes. Skin. Inhalation. Ingestion.

Potential Health Effects:

Eve: Corrosive. Will cause eye burns and permanent tissue damage.

Skin: Severely irritating; may cause permanent skin damage.

Inhalation: May cause severe respiratory system irritation.

Inaestion: Harmful if swallowed. Corrosive to the gastrointestinal tract.

Chronic Health Effects: Prolonged skin contact causes burns

Repeated or prolonged inhalation may cause toxic effects.

Depending on solution concentration, material may be corrosive to skin, mucous membranes and eyes. Vapors may cause respiratory irritation. Signs/Symptoms:

Target Organs: Eyes. Skin. Respiratory system. Digestive system.

Aggravation of Pre-Existing May aggravate pre-existing respiratory disorders, allergy, eczema, or skin conditions.

Conditions

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Mixtures:

Chemical Name CAS# **Ingredient Percent** EC Num.

Sulfamic Acid 99.8% Technical Grade

5329-14-6

5 - 10 by weight

Notes:

Skin Contact:

The remaining components of this product are non-hazardous or are in a small enough quantity as to not meet regulatory thresholds for disclosure.

SECTION 4: FIRST AID MEASURES

<u>Description of necessary measures:</u>

Eye Contact: Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of

the eyes by separating the eyelids with fingers. Remove contacts if present and easy to do. Continue rinsing. Get medical attention, if irritation or symptoms of overexposure persists.

Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing

contaminated clothing and shoes. Get medical attention if irritation develops or persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained

If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Ingestion:

SECTION 5: FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media: Use alcohol resistant foam, carbon dioxide, dry chemical, or water fog or spray when fighting fires

involving this material.

Special protective equipment and precautions for fire-fighters:

Protective Equipment: $As in \ any \ fire, \ wear \ Self-Contained \ Breathing \ Apparatus \ (SCBA), \ MSHA/NIOSH \ (approved \ or \ equivalent)$

and full protective gear.

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NFPA Ratings:

NFPA Health:

NFPA Flammability: 1

NFPA Reactivity: 2



SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: $\label{thm:condition} \textbf{Evacuate area and keep unnecessary and unprotected personnel from entering the spill area. Use}$

proper personal protective equipment as listed in Section 8.

Environmental precautions:

Environmental Precautions: Avoid runoff into storm sewers, ditches, and waterways.

 $\underline{\text{Methods and materials for containment and cleaning up:}}\\$

Contain spills with an inert absorbent material such as soil or sand. Prevent from spreading by Methods for containment:

covering, diking or other means. Provide ventilation.

Clean up spills immediately observing precautions in the protective equipment section. Provide Methods for cleanup:

SECTION 7: HANDLING and STORAGE

Precautions for safe handling:

Handling: Corrosive. Use proper personal protective equipment as listed in section 8. Use with adequate ventilation. Avoid breathing vapor and contact with eyes, skin and clothing. Wash hands thoroughly

Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling vapor or mist. Hygiene Practices:

Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, and incompatible substances. Keep container tightly closed when not in use. Keep only in the original, Storage:

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corrosive resistant container and store locked up.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Guideline ACGIH: Exposure limits are not established Guideline OSHA: Exposure limits are not established

Appropriate engineering controls:

Engineering Controls:

Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

Individual protection measures:

Eye/Face Protection:

Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.

Skin Protection Description:

 $Chemical-resistant\ gloves\ and\ chemical\ goggles,\ face-shield\ and\ synthetic\ apron\ or\ coveralls\ should\ be\ used\ to\ prevent\ contact\ with\ eyes,\ skin\ or\ clothing.$

Respiratory Protection:

A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Other Protective:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety

PPE Pictograms:



SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Liquid. Clear Color: Odor: Sweet

Odor Threshold: Not determined. **Boiling Point:** 214°F (101°C) Melting Point: Not determined.

1.09 (Ref: water = 1).Specific Gravity:

Solubility: Very soluble. Vapor Density: Not determined. Vapor Pressure: Not determined.

Percent Volatile: 86%

Evaporation Rate: Not determined. pH: 0.3 - 0.7 Viscosity: Not determined.

Coefficient of Water/Oil Not determined.

Distribution:

Flammability: Not determined. 210 °F (99°C) Flash Point:

Flash Point Method: Tag Closed Cup (T.C.C).

Lower Flammable/Explosive Limit: Not determined. Upper Flammable/Explosive Limit: Not determined Auto Ignition Temperature: Not determined. Oxidizing Properties: Not determined. VOC Content: Not determined.

SECTION 10: STABILITY and REACTIVITY

Chemical Stability:

Chemical Stability: Stable under normal temperatures and pressures.

Possibility of hazardous reactions:

Hazardous Polymerization: Will not occur.

Conditions To Avoid:

Conditions to Avoid: Avoid contact with incompatible materials.

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Incompatible Materials: Strong acids.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Sulfamic Acid 99.8% Technical Grade:

Administration into the eye - Rabbit Standard Draize test: 20 mg [Moderate] Administration into the eye - Rabbit Standard Draize test: 250 ug/24H [Severe] (RTECS)

Oral - Rat LD50 - Lethal dose, 50 percent kill: 3160 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS) Ingestion:

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Ecotoxicity: No ecotoxicity data was found for the product.

Environmental Fate: No environmental information found for this product.

SECTION 13: DISPOSAL CONSIDERATIONS

Description of waste:

Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous

waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local

SECTION 14: TRANSPORT INFORMATION

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S DOT Shipping Name:

DOT UN Number: UN3264

8 DOT Hazard Class:

DOT Packing Group: III

Notes: The data provided in this section is for information only. Please apply the appropriate regulations to

properly classify your shipment.

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:

Sulfamic Acid 99.8% Technical Grade:

TSCA Inventory Status: Listed Canada DSL: Listed

SECTION 16: ADDITIONAL INFORMATION

HMIS Ratings:

HMIS Health Hazard: 3 HMIS Fire Hazard: 1 HMIS Reactivity: HMIS Personal Protection:

| Health Hazard | 3 |
|---------------------|---|
| Fire Hazard | 1 |
| Reactivity | 2 |
| Personal Protection | x |

Other Information:

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). The customer is responsible for determining the appropriate PPE to be used for the

The National Fire Protection Association (NFPA) rating system is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. NFPA hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. NFPA hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. The NFPA system is intended to be interpreted and applied only by properly trained individuals to identify fire, health, and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not,

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anyone using the 704 systems to classify chemicals does so at their own risk.

SDS Revision Date: March 23, 2017

SDS Revision Notes: Supercedes MSDS 5/1/2015 SDS Author: Regulatory department

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