# **SAFETY DATA SHEETS**

# This SDS packet was issued with item:

075169537

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

075169503

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

272435147

# Heraeus Kulzer

Mitsui Chemicals Group

# **SAFETY DATA SHEET**

# SECTION 1 : IDENTIFICATION

<u>Product identifier used on the label:</u> Product Name: Product Code: SDS Manufacturer Number:	<b>Dri-Clave VK-4 Tartar and Stain Remover</b> 50036208, 50036208CN D003
Other means of identification: Synonyms:	Sulfamic Acid Solution
<u>Recommended use of the chemical and restri</u> Product Use/Restriction:	<u>ctions on use:</u> Tartar and stain removing ultrasonic solution.
<u>Chemical manufacturer address and telephon</u> Manufacturer Name: Address: General Phone Number:	e number: Heraeus Kulzer, LLC (Mitsui Chemicals Group) 300 Heraeus Way South Bend, Indiana 46614-2517 USA 800-431-1785
Emergency phone number: Emergency Phone Number:	Chemtrec @ 1-800-424-9300

# SECTION 2 : HAZARD(S) IDENTIFICATION

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

GHS Pictograms:	
Signal Word:	DANGER.
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:	<ul> <li>P260 - Do not breathe dust/fume/gas/mist/vapours/spray.</li> <li>P264 - Wash hands thoroughly after handling.</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do not induce vomiting.</li> <li>P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.</li> <li>Rinse skin with water/shower.</li> <li>P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</li> <li>P305+P351+P338 - IF FIN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P310 - Immediately call a POISON CENTER or doctor/physician.</li> <li>P321 - Specific treatment (see on this label).</li> <li>P363 - Wash contaminated clothing before reuse.</li> <li>P405 - Store locked up.</li> <li>P501 - Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.</li> </ul>
Hazards not otherwise classified t	hat have been identified during the classification process:

Route of Exposure:	Eyes. Skin. Inhalation. Ingestion.
Potential Health Effects:	
Eye:	Corrosive. Will cause eye burns and permanent tissue damage.
Skin:	Severely irritating; may cause permanent skin damage.
Inhalation:	May cause severe respiratory system irritation.
Ingestion:	Harmful if swallowed. Corrosive to the gastrointestinal tract.
Chronic Health Effects:	Prolonged skin contact causes burns. Repeated or prolonged inhalation may cause toxic effects.
Signs/Symptoms:	Depending on solution concentration, material may be corrosive to skin, mucous membranes and eyes. Vapors may cause respiratory irritation.
Target Organs:	Eyes. Skin. Respiratory system. Digestive system.
Aggravation of Pre-Existing Conditions:	May aggravate pre-existing respiratory disorders, allergy, eczema, or skin conditions.

#### SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

<u>Mixtures:</u>			
Chemical Name	CA S#	Ingredient Percent	EC Num.
Sulfamic Acid 99.8% Technical Grade	5329-14-6	5 - 10 by weight	
Notes :	The remaining components of this produc not meet regulatory thresholds for disclos		small enough quantity as

## SECTION 4 : FIRST AID MEASURES

Description of necessary measure	<u>s:</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.
Skin Contact:	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 personnel. Seek immediate medical attention.
Ingestion:	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

# 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, we and full protective	ar Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) e gear.
NFPA Ratings:		
NFPA Health:	3	
NFPA Flammability:	1	
NFPA Reactivity:	2	

#### SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal Precautions:	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.
Methods and materials for containr	nent and cleaning up:
Methods for containment:	Contain spills with an inert absorbent material such as soil or sand. Prevent from spreading by covering, diking or other means. Provide ventilation.
Methods for cleanup:	Clean up spills immediately observing precautions in the protective equipment section. Provide ventilation.

# 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 after handling.
Hygiene Practices:	Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling vapor or mist.
Conditions for safe storage, inc	cluding any incompatibilities:
Storage:	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, 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 shower.
PPE Pictograms:	

# SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

#### PHYSICAL AND CHEMICAL PROPERTIES:

Physical State:	Liquid.
Color:	Clear
Odor:	Sweet.
Odor Threshold:	Not determined.
Boiling Point:	214°F (101°C)
Melting Point:	Not determined.
Specific Gravity:	1.09 (Ref: water = 1).
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 Distribution:	Not determined.
Flammability:	Not determined.
Flash Point:	210 °F (99°C)
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:	

Avoid contact with incompatible materials.

Strong acids.

# SECTION 11 : TOXICOLOGICAL INFORMATION

## TOXICOLOGICAL INFORMATION:

Sulfamic Acid 99.8% Technical Grade :	
Eye:	Administration into the eye - Rabbit Standard Draize test: 20 mg [Moderate] Administration into the eye - Rabbit Standard Draize test: 250 ug/24H [Severe] (RTECS)
Ingestion:	Oral - Rat LD50 - Lethal dose, 50 percent kill: 3160 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

### 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:

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Waste Disposal:
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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 guidelines.

# SECTION 14 : TRANSPORT INFORMATION

DOT Shipping Name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S
DOT UN Number:	UN3264
DOT Hazard Class:	8
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 Gra	ade :
TSCA Inventory Status:	Listed

ISCA Inventory Status:	Listed
Canada DSL:	Listed

# SECTION 16 : ADDITIONAL INFORMATION

HMIS Health Hazard:	3	Health Hazard	3
HMIS Fire Hazard:	1	Fire Hazard	1
HMIS Reactivity:	2	Reactivity	2
HMIS Personal Protection:	Х	Personal Protection	x
	implemented HMIS® progra Association (NPCA). The cus task.	r may choose to provide them. HMIS® ratings are to be used with a n. HMIS® is a registered mark of the National Paint & Coatings omer is responsible for determining the appropriate PPE to be used Association (NFPA) rating system is based on a 0-4 rating scale, with	for th

	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, 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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