



# Material Safety Data Sheet

Issue Date: 13-APR-2010  
Supersedes: 24-MAR-2009

KLEEN AC9500

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## 1 Identification

### Identification of substance or preparation

KLEEN AC9500

### Product Application Area

Acid cleaner

### Company/Undertaking Identification

GE Betz, Inc.  
4636 Somerton Road  
Trevose, PA 19053  
T 215 355-3300, F 215 953 5524

### Emergency Telephone

(800) 877-1940

Prepared by Product Stewardship Group: T 215-355-3300    Prepared on: 13-APR-2010

## 2 Hazard(s) identification

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### EMERGENCY OVERVIEW

#### DANGER

Severe irritant to the skin, possibly corrosive. Corrosive to the eyes. Dusts cause irritation to the upper respiratory tract.

DOT hazard: Corrosive to skin  
Odor: Slight; Appearance: Orange, Granules

Fire fighters should wear positive pressure self-contained breathing apparatus(full face-piece type). Proper fire-extinguishing media: dry chemical, carbon dioxide or foam--Avoid water if possible.

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### POTENTIAL HEALTH EFFECTS

#### ACUTE SKIN EFFECTS:

Severe irritant to the skin, possibly corrosive.

#### ACUTE EYE EFFECTS:

Corrosive to the eyes.

#### ACUTE RESPIRATORY EFFECTS:

Primary route of exposure;Dusts cause irritation to the upper respiratory tract.

**INGESTION EFFECTS:**

May cause severe irritation or burning of the gastrointestinal tract.

**TARGET ORGANS:**

Prolonged or repeated exposures may cause tissue necrosis.

**MEDICAL CONDITIONS AGGRAVATED:**

Not known.

**SYMPTOMS OF EXPOSURE:**

Inhalation of dusts may cause irritation and/or burns to the respiratory tract. Skin contact can cause moderate irritation to burns (dependent on length of exposure).

### 3 Composition / information on ingredients

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation. This product is subject to the Pennsylvania and New Jersey Worker and Community Right to Know Law.

**HAZARDOUS INGREDIENTS:**

Cas#	Chemical Name	Range (w/w%)
5329-14-6	SULFAMIC ACID Corrosive (eyes); irritant (skin)	60-100
107-21-1	ETHYLENE GLYCOL Eye irritant; slight skin irritant; may be absorbed by skin; potential skin sensitizer; liver, kidney and blood toxin; neurotoxin; CNS depressant; animal teratogen (at high oral doses)	1-5
112945-52-5	SILICON DIOXIDE, SYNTHETIC, FUMED (AMORPHOUS SILICA) Nuisance particulate	1-5

**NON-HAZARDOUS INGREDIENTS:**

CAS#	CHEMICAL NAME
7732-18-5	WATER

### 4 First-aid measures

**SKIN CONTACT:**

Wash thoroughly with soap and water. Remove contaminated clothing. Thoroughly wash clothing before reuse. Get medical attention if irritation develops or persists.

**EYE CONTACT:**

URGENT! Immediately flush eyes with plenty of low-pressure water for at least 20 minutes while removing contact lenses. Hold eyelids apart. Get immediate medical attention.

**INHALATION:**

If nasal, throat or lung irritation develops - remove to fresh air and get medical attention.

**INGESTION:**

Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician. Wash mouth with water. Do not give water to drink.

**NOTES TO PHYSICIANS:**

Material is corrosive. It may not be advisable to induce vomiting. Possible mucosal damage may contraindicate the use of gastric lavage.

## 5 Fire-fighting measures

**FIRE FIGHTING INSTRUCTIONS:**

Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).

**EXTINGUISHING MEDIA:**

dry chemical, carbon dioxide or foam--Avoid water if possible.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

oxides of carbon, nitrogen, and sulfur; and hydrogen chloride

**FLASH POINT:**

> 200F > 93C P-M(CC)

**MISCELLANEOUS:**

Corrosive to skin

UN 2967;Emergency Response Guide #154

## 6 Accidental release measures

**PROTECTION AND SPILL CONTAINMENT:**

Ventilate area. Use specified protective equipment. Sweep up and remove. Minimize dust generation.

**DISPOSAL INSTRUCTIONS:**

Water contaminated with this product may be sent to a sanitary sewer treatment facility, in accordance with any local agreement, a permitted waste treatment facility or discharged under a permit. Product as is - Incinerate or land dispose in an approved landfill.

## 7 Handling and storage

**HANDLING:**

Acidic. Corrosive (Moist skin/eyes). Do not mix with basic materials.

**STORAGE:**

Keep containers closed when not in use. Store in a cool, dry location away from alkalis and oxidizers.

## 8 Exposure controls / personal protection

**EXPOSURE LIMITS**

**CHEMICAL NAME**

SULFAMIC ACID

PEL (OSHA): NOT DETERMINED

TLV (ACGIH): NOT DETERMINED

ETHYLENE GLYCOL

PEL (OSHA): NOT DETERMINED

TLV (ACGIH): TWA (Ceiling) = 100 MG/M3; A4

SILICON DIOXIDE, SYNTHETIC, FUMED (AMORPHOUS SILICA)

PEL (OSHA): 6 MG/M3 (TOTAL DUST)

TLV (ACGIH): 10 MG/M3 (TOTAL DUST)

**ENGINEERING CONTROLS:**

adequate ventilation

**PERSONAL PROTECTIVE EQUIPMENT:**

Use protective equipment in accordance with 29CFR 1910 Subpart I

**RESPIRATORY PROTECTION:**

A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.

USE AIR PURIFYING RESPIRATORS WITHIN USE LIMITATIONS ASSOCIATED WITH THE EQUIPMENT OR ELSE USE SUPPLIED AIR-RESPIRATORS.

If air-purifying respirator use is appropriate, use any of the following particulate respirators: N95, N99, N100, R95, R99, R100, P95, P99 or P100.

**SKIN PROTECTION:**

neoprene gloves-- Wash off after each use. Replace as necessary.

**EYE PROTECTION:**

airtight chemical goggles

## 9 Physical and chemical properties

Density	75.000 lb/cu.ft	Vapor Pressure (mmHG)	< 0.1
Freeze Point (F)	NA	Vapor Density (air=1)	< 1.00
Freeze Point (C)	NA		
Viscosity(cps 70F,21C)	NA	% Solubility (water)	~ 15.0

Odor	Slight
Appearance	Orange
Physical State	Granules
Flash Point	P-M(CC) > 200F > 93C
pH 1% Sol. (approx.)	~ 1.2
Evaporation Rate (Ether=1)	< 1.00
Percent VOC:	0.0

NA = not applicable      ND = not determined

## 10 Stability and reactivity

**CHEMICAL STABILITY:**

Stable under normal storage conditions.

**POSSIBILITY OF HAZARDOUS REACTIONS:**

Contact with strong bases may cause a violent reaction releasing heat. Contact with oxidizers may cause fire.

**INCOMPATIBILITIES:**

May react with bases or strong oxidizers.

**DECOMPOSITION PRODUCTS:**

oxides of carbon, nitrogen, and sulfur; and hydrogen chloride

## 11 Toxicological information

Oral LD50 RAT: 3075 mg/kg  
NOTE - Calculated value  
Skin Irritation Score RABBIT: MODERATE  
NOTE - Estimate based on testing of similar material;non-corrosive  
by DOT test.

## 12 Ecological information

### AQUATIC TOXICOLOGY

Daphnia magna 48 Hour Static Acute Bioassay (pH adjusted)  
LC50= 260; No Effect Level= 90 mg/L  
Fathead Minnow 96 Hour Static Bioassay with 48-Hour Renewal (pH  
adjusted)  
0% Mortality= 2000 mg/L

### BIODEGRADATION

No Data Available.

## 13 Disposal considerations

If this undiluted product is discarded as a waste, the US RCRA  
hazardous waste identification number is :  
Not applicable.

Please be advised; however, that state and local requirements for  
waste disposal may be more restrictive or otherwise different from  
federal regulations. Consult state and local regulations regarding  
the proper disposal of this material.

## 14 Transport information

Transportation Hazard: Corrosive to skin  
DOT: SULFAMIC ACID, MIXTURE  
8, UN 2967, PG III  
DOT EMERGENCY RESPONSE GUIDE #: 154  
Note: Some containers may be DOT exempt, please check BOL for  
exact container classification  
IATA: SULPHAMIC ACID, MIXTURE  
8, UN 2967, PG III  
IMDG: SULPHAMIC ACID, MIXTURE  
8, UN 2967, PG III

## 15 Regulatory information

### TSCA:

All components of this product are included on or are in  
compliance with the U.S. TSCA regulations.

### CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):

No regulated constituent present at OSHA thresholds

### NSF Registered and/or meets USDA (according to 1998 Guidelines):

Registration number: Not Registered

A3

### SARA SECTION 312 HAZARD CLASS:

Immediate(acute);Delayed(Chronic)

**SARA SECTION 302 CHEMICALS:**

No regulated constituent present at OSHA thresholds

**SARA SECTION 313 CHEMICALS:**

CAS#	CHEMICAL NAME	RANGE
107-21-1	ETHYLENE GLYCOL	2.0-5.0%

**CALIFORNIA REGULATORY INFORMATION**

**CALIFORNIA SAFE DRINKING WATER AND TOXIC**

**ENFORCEMENT ACT (PROPOSITION 65):**

This product contains one or more ingredients at trace levels known to the state of California to cause cancer and reproductive toxicity.

**MICHIGAN REGULATORY INFORMATION**

No regulated constituent present at OSHA thresholds

## 16 Other information

**HMIS vII**

**CODE TRANSLATION**

Health	3	Serious Hazard
Fire	1	Slight Hazard
Reactivity	0	Minimal Hazard
Special	CORR	DOT corrosive
(1) Protective Equipment	B	Goggles,Gloves

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

**CHANGE LOG**

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
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MSDS status:	13-OCT-1997		** NEW **
	10-DEC-1997	7;EDIT:9	13-OCT-1997
	19-MAR-2002	4,12	10-DEC-1997
	06-JUN-2002	15	19-MAR-2002
	18-SEP-2006	14	06-JUN-2002
	24-MAR-2009	2,3,4,5,6,8,10,13	18-SEP-2006
	13-APR-2010	3,8,11,14,15	24-MAR-2009