



# Material Safety Data Sheet

AK-110

Issue Date: 28-JUL-2010 Supercedes: 12-FEB-2010

# **1** Identification

Identification of substance or preparation AK-110

Product Application Area Membrane 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: 28-JUL-2010

# 2 Hazard(s) identification

### DANGER

Severe irritant to the skin. Corrosive to the eyes. Dusts may cause irritation to the upper respiratory tract.

DOT hazard is not applicable Odor: Mild; Appearance: White To Off-White, Powder

Fire fighters should wear positive pressure self-contained breathing apparatus(full face-piece type). Proper fire-extinguishing media: This product is non-combustible

### POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS: Primary route of exposure; Severe irritant to the skin.

ACUTE EYE EFFECTS:

Corrosive to the eyes.

ACUTE RESPIRATORY EFFECTS:

Primary route of exposure;Dusts may 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 R	ange(w/w%)				
497-19-8	SODIUM CARBONATE Irritant (eyes)	15-40				
10101-89-0	TRISODIUM PHOSPHATE, DODECAHYDRATE Corrosive (skin and eyes)	15-40				
25155-30-0	SODIUM DODECYLBENZENESULFONATE Moderate irritation (skin,respiratory tract); seve irritant (eyes) may cause primary contact dermatit					
6834-92-0	Corrosive (eyes and moist skin); moderate respiratory irritant	3-7				
NON-HAZARDOUS INGREDIENTS:						
CAS#	CHEMICAL NAME					

7757-82-6 SODIUM SULFATE

## 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:

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Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician. Dilute contents of stomach using 2-8 fluid ounces (60-240 mL) of milk or water.
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#### 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:

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Fire fighters should wear positive pressure self-contained breathing
apparatus (full face-piece type).
EXTINGUISHING MEDIA:
This product is non-combustible
HAZARDOUS DECOMPOSITION PRODUCTS:
oxides of carbon, phosphorus, silicon and sulfur
FLASH POINT:
> 213F > 101C P-M(CC)
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### 6 Accidental release measures

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PROTECTION AND SPILL CONTAINMENT:
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Ventilate area. Use specified protective equipment. Sweep up and remove. Minimize dust generation.
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#### DISPOSAL INSTRUCTIONS:

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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.
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## 7 Handling and storage

#### HANDLING:

Corrosive to eyes. Use approved containers only. **STORAGE:** Store below 100F ( 38C). Keep containers closed when not in use. Keep dry.

## 8 Exposure controls / personal protection

### EXPOSURE LIMITS

### CHEMICAL NAME

SODIUM CARBONATE PEL (OSHA): NOT DETERMINED TLV (ACGIH): NOT DETERMINED

TRISODIUM PHOSPHATE, DODECAHYDRATE PEL (OSHA): NOT DETERMINED TLV (ACGIH): NOT DETERMINED

SODIUM DODECYLBENZENESULFONATE PEL (OSHA): NOT DETERMINED TLV (ACGIH): NOT DETERMINED DISODIUM METASILICATE PEL (OSHA): NOT DETERMINED TLV (ACGIH): NOT DETERMINED 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: rubber, butyl, viton or neoprene gloves -- Wash off after each use. Replace as necessary. EYE PROTECTION: airtight chemical goggles

# 9 Physical and chemical properties

Density Freeze Point (F)	80.000 lb NA	/cu.ft Vapor Pressure (mmHG) Vapor Density (air=1)		
Freeze Point (C)	NA			
Viscosity(cps 70F,21C)	NA	<pre>% Solubility (water)</pre>	~ 3.0	
Odor		Mild		
Appearance		White To Off-White		
Physical State		Powder		
Flash Point F	9-М(СС)	> 213F > 100C		
pH 1% Sol. (approx.)		11.6		
Evaporation Rate (Ethe	r=1)	< 1.00		
Percent VOC:		0.0		

NA = not applicable ND = not determined

# 10 Stability and reactivity

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CHEMICAL STABILITY:

Stable under normal storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS:

No known hazardous reactions.

INCOMPATIBILITIES:

May react with strong oxidizers.

DECOMPOSITION PRODUCTS:

oxides of carbon, phosphorus, silicon and sulfur
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# **11 Toxicological information**

No Data Available.

## 12 Ecological information

#### AQUATIC TOXICOLOGY

Daphnia magna 48 Hour Estimated Acute Toxicity LC50 Greater Than= 1000 mg/L Fathead Minnow 96 Hour Estimated Acute Toxicity LC50 Greater Than= 1000 mg/L

### BIODEGRADATION

BOD-28 (mg/g): 15 BOD-5 (mg/g): 0 COD (mg/g): 170 TOC (mg/g): 25

# **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: Not Applicable DOT: Not Regulated

DOT EMERGENCY RESPONSE GUIDE #: Not applicable Note: Some containers may be DOT exempt, please check BOL for exact container classification IATA: Not Regulated

IMDG: Not Regulated

# **15 Regulatory information**

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TSCA:
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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 SARA SECTION 312 HAZARD CLASS: Immediate(acute);Delayed(Chronic) SARA SECTION 302 CHEMICALS: No regulated constituent present at OSHA thresholds SARA SECTION 313 CHEMICALS:

### CALIFORNIA REGULATORY INFORMATION

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): No regulated constituents present MICHIGAN REGULATORY INFORMATION

No regulated constituent present at OSHA thresholds

# **16 Other information**

### HMIS VII

### CODE TRANSLATION

Health	3	Serious Hazard
Fire	0	Minimal Hazard
Reactivity	0	Minimal Hazard
Special	NONE	No special Hazard
(1) Protective Equipment	В	Goggles,Gloves

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

### CHANGE LOG

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
MSDS status:	 18-SEP-2008		 ** NEW **
	12-FEB-2010	14	18-SEP-2008
	28-JUL-2010	7,9,10	12-FEB-2010