



# Material Safety Data Sheet

Issue Date: 19-OCT-2010  
Supersedes: 10-FEB-2010

KLEEN MCT405

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## 1 Identification

### Identification of substance or preparation

KLEEN MCT405

### 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: 19-OCT-2010

## 2 Hazard(s) identification

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**EMERGENCY OVERVIEW**

**DANGER**

Severe irritant to the skin, possibly corrosive. Severe irritant to the eyes, possibly corrosive. Mists/aerosols may cause irritation to upper respiratory tract.

DOT hazard: Corrosive to aluminum  
Odor: Mild; Appearance: Light Yellow, Liquid

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

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**POTENTIAL HEALTH EFFECTS**

**ACUTE SKIN EFFECTS:**

Primary route of exposure; Severe irritant to the skin, possibly corrosive.

**ACUTE EYE EFFECTS:**

Severe irritant to the eyes, possibly corrosive.

**ACUTE RESPIRATORY EFFECTS:**

Primary route of exposure;Mists/aerosols may cause irritation to

upper respiratory tract.

**INGESTION EFFECTS:**

May cause severe irritation or burning of the gastrointestinal tract.

**TARGET ORGANS:**

Prolonged or repeated exposures may cause defatting-type dermatitis and/or primary irritant dermatitis. Product or product component may increase the risk of cancer based on limited animal data.

**MEDICAL CONDITIONS AGGRAVATED:**

Pre-existing skin disorders.

**SYMPTOMS OF EXPOSURE:**

May cause redness or itching of skin, irritation, and/or tearing of eyes (direct contact).

### 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%)
5064-31-3	NITRILOTRIACETIC ACID, TRISODIUM SALT (NTA.3NA) Possible human carcinogen (IARC=2B)	0.1-1.0
50-00-0	FORMALDEHYDE Highly toxic (by inhalation); Toxic (by ingestion and skin absorption); irritant (eyes, skin, and respiratory); sensitizer (skin and respiratory); human carcinogen (IARC=1; NTP=anticipated)	0.1-1.0
139-89-9	N-HYDROXYETHYLENEDIAMINE TRIACETIC ACID TRISODIUM SALT Irritant (eyes)	7-13
497-19-8	SODIUM CARBONATE Irritant (eyes)	3-7
25155-30-0	SODIUM DODECYLBENZENESULFONATE Moderate irritation (skin, respiratory tract); severe irritant (eyes) may cause primary contact dermatitis	1-5
1310-73-2	SODIUM HYDROXIDE Corrosive; toxic (by ingestion)	1-5

**NON-HAZARDOUS INGREDIENTS:**

CAS#	CHEMICAL NAME
7732-18-5	WATER
28348-53-0	BENZENESULFONIC ACID, (1-METHYLETHYL)-, SODIUM SALT
527-07-1	SODIUM GLUCONATE

## 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. Rinse mouth with plenty of water. Dilute contents of stomach using 4-10 fluid ounces (120-300 mL) of milk or water.

### **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, foam or water

### **HAZARDOUS DECOMPOSITION PRODUCTS:**

oxides of carbon, nitrogen and sulfur

### **FLASH POINT:**

> 213F > 101C P-M(CC)

## 6 Accidental release measures

### **PROTECTION AND SPILL CONTAINMENT:**

Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.

### **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:**

Alkaline. Do not mix with acidic material.

### **STORAGE:**

Keep containers closed when not in use. Protect from freezing. Do not store near strong acids. Use proper containers.

## 8 Exposure controls / personal protection

### EXPOSURE LIMITS

#### CHEMICAL NAME

NITRILOTRIACETIC ACID, TRISODIUM SALT (NTA.3NA)

PEL (OSHA): NOT DETERMINED

TLV (ACGIH): NOT DETERMINED

FORMALDEHYDE

PEL (OSHA): 0.75 PPM (STEL-2PPM)

TLV (ACGIH): 0.3 PPM-CEILING

N-HYDROXYETHYLENEDIAMINE TRIACETIC ACID TRISODIUM SALT

PEL (OSHA): NOT DETERMINED

TLV (ACGIH): NOT DETERMINED

SODIUM CARBONATE

PEL (OSHA): NOT DETERMINED

TLV (ACGIH): NOT DETERMINED

SODIUM DODECYLBENZENESULFONATE

PEL (OSHA): NOT DETERMINED

TLV (ACGIH): NOT DETERMINED

SODIUM HYDROXIDE

PEL (OSHA): 2 MG/M3

TLV (ACGIH): TWA (Ceiling) = 2 MG/M3

### 8) EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

#### 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 organic vapor cartridges and any of the following particulate respirators: N95, N99, N100, R95, R99, R100, P95, P99 or P100.

##### SKIN PROTECTION:

rubber, butyl or viton gloves -- Wash off after each use.

Replace as necessary.

##### EYE PROTECTION:

splash proof chemical goggles

## 9 Physical and chemical properties

Spec. Grav. (70F, 21C)	1.138	Vapor Pressure (mmHG)	~ 18.0
Freeze Point (F)	28	Vapor Density (air=1)	< 1.00
Freeze Point (C)	-2		
Viscosity (cps 70F, 21C)	12	% Solubility (water)	100.0

Odor	Mild
Appearance	Light Yellow

Physical State		Liquid
Flash Point	P-M(CC)	> 213F > 100C
pH As Is (approx.)		12.9
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 acids may cause a violent reaction releasing heat.

### INCOMPATIBILITIES:

May react with acids or strong oxidizers.

### DECOMPOSITION PRODUCTS:

oxides of carbon, nitrogen and sulfur

## 11 Toxicological information

No Data Available.

## 12 Ecological information

### AQUATIC TOXICOLOGY

Daphnia magna 48 Hour Static Renewal Bioassay (pH adjusted)

LC50= 696.5; No Effect Level= 313 mg/L

Fathead Minnow 96 Hour Static Renewal Bioassay

LC50= 164.9; No Effect Level= 125 mg/L

Rainbow Trout 96 Hour Static Renewal Bioassay

LC50= 258.2; No Effect Level= 125 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 :  
D002=Corrosive(pH).

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 aluminum  
 DOT: CORROSIVE LIQUID, N.O.S. (SODIUM DODECYLBENZENESULFONATE,  
 SODIUM HYRDOXIDE)  
 8, UN1760, PG III, (SODIUM DODECYLBENZENESULFONATE) RQ  
 DOT EMERGENCY RESPONSE GUIDE #: 154  
 Note: Some containers may be DOT exempt, please check BOL for  
 exact container classification  
 IATA: CORROSIVE LIQUID, N.O.S. (SODIUM DODECYLBENZENESULFONATE,  
 SODIUM HYRDOXIDE)  
 8, UN1760, PG III  
 IMDG: CORROSIVE LIQUID, N.O.S. (SODIUM DODECYLBENZENESULFONATE,  
 SODIUM HYRDOXIDE)  
 8, UN1760, 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):

5,553 gallons due to SODIUM DODECYLBENZENESULFONATE;

### 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:

No regulated constituent present at OSHA thresholds

### CALIFORNIA REGULATORY INFORMATION

#### CALIFORNIA SAFE DRINKING WATER AND TOXIC

#### ENFORCEMENT ACT (PROPOSITION 65):

This product contains one or more ingredients known to the state of California to cause cancer.

### 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	ALK	pH above 12.0
(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: 07-APR-2009  
10-FEB-2010 14  
19-OCT-2010 14

\*\* NEW \*\*  
07-APR-2009  
10-FEB-2010