



Material Safety Data Sheet

Issue Date: 15-JUN-2011 Supercedes:

CONTINUUM AEC3100

1 Identification

Identification of substance or preparation CONTINUUM AEC3100

Product Application Area Water-based corrosion inhibitor/deposit control agent.

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: 15-JUN-2011

2 Hazard(s) identification

EMERGENCY OVERVIEW

CAUTION

May cause slight irritation to the skin. May cause moderate irritation to the eyes. Mists/aerosols may cause irritation to upper respiratory tract.

DOT hazard: Corrosive to aluminum, RQ Odor: Slight; Appearance: 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

POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS:

Primary route of exposure; May cause slight irritation to the skin.

ACUTE EYE EFFECTS:

May cause moderate irritation to the eyes.

ACUTE RESPIRATORY EFFECTS:

Mists/aerosols may cause irritation to upper respiratory tract.

INGESTION EFFECTS:

May cause gastrointestinal irritation with possible nausea, vomiting, abdominal discomfort and diarrhea.

TARGET ORGANS:

Prolonged or repeated exposures may cause toxicity to the lung.

MEDICAL CONDITIONS AGGRAVATED:

Not known.

SYMPTOMS OF EXPOSURE:

May cause redness or itching of skin.

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%)
7631-95-0	SODIUM MOLYBDATE (MOLYBDIC ACID,DISODIUM SALT) Potential irritant (respiratory); potential lung toxicity	3-7
64665-57-2	BENZOTRIAZOLE,METHYL,SODIUM SALT (SODIUM TOLYLTRIAZOLE),(TTA) Corrosive (eyes and skin); toxic (by ingestion)	1-5
1310-73-2	Corrosive; toxic (by ingestion)	1-5
NON-HAZARDOU:	S INGREDIENTS:	
CAS#	CHEMICAL NAME	
7732-18-5 3164-34-9 109578-44-1	WATER CALCIUM TARTRATE 2 3-0YIRANEDICARROYVIIC ACID DISODIUM	SAL T

109578-44-1	2,3-OXIRANEDICARBOXYLIC ACID, DISODIUM SALT,
	HOMOPOLYMER
78266-09-8	2-PROPENOIC ACID POLYMER WITH 2-HYDROXY-3-
	(2-PROPENYLOXY)-1-PROPANE SULFONIC ACID, SODIUM SALT

4 First-aid measures

SKIN CONTACT:

Wash thoroughly with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists. EYE CONTACT: Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get immediate medical attention. INHALATION: If means the plane invitation develops on pressure to furth and plane.

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If nasal, throat or lung irritation develops - remove to fresh air and get medical attention.
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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.
NOTES TO PHYSICIANS:
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No special instructions

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:
    dry chemical, carbon dioxide, foam or water
HAZARDOUS DECOMPOSITION PRODUCTS:
    oxides of carbon, nitrogen and sulfur
FLASH POINT:
    > 200F > 93C P-M(CC)
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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. Reasonable and safe chemical storage. Protect from freezing. If frozen, thaw completely and mix thoroughly prior to use. Store away from acids. Do not store in aluminum containers.

8 Exposure controls / personal protection

EXPOSURE LIMITS

CHEMICAL NAME

SODIUM MOLYBDATE (MOLYBDIC ACID,DISODIUM SALT) PEL (OSHA): 5 MG/M3(AS Mo) TLV (ACGIH): 0.5 MG/M3(AS Mo) RESPIRABLE FRACTION

BENZOTRIAZOLE, METHYL, SODIUM SALT (SODIUM TOLYLTRIAZOLE), (TTA) PEL (OSHA): LIMITS HAVE NOT BEEN ESTABLISHED BY US OSHA. TLV (ACGIH): LIMITS HAVE NOT BEEN ESTABLISHED BY ACGIH. SODIUM HYDROXIDE PEL (OSHA): 2 MG/M3 TLV (ACGIH): TWA (Ceiling) = 2 MG/M3

ENGINEERING CONTROLS:

Adequate ventilation to maintain air contaminants below exposure limits.

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:

splash proof chemical goggles

9 Physical and chemical properties

Spec. Grav. (70F, 21C) 1.202 Vapor Pressure (mmHG) ~ 18.0 Freeze Point (F)20Freeze Point (C)-7 Vapor Density (air=1) < 1.00 Viscosity(cps 70F,21C) 20 % Solubility (water) 100.0 Odor Slight Appearance Yellow Physical State Liquid Flash Point P-M(CC) > 200F > 93C > 13.0 pH As Is (approx.) < 1.00 Evaporation Rate (Ether=1) 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. Contact with water reactive compounds may cause fire or explosion. INCOMPATIBILITIES: May react with acids or strong oxidizers. DECOMPOSITION PRODUCTS: oxides of carbon, nitrogen and sulfur

11 Toxicological information

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Oral LD50 RAT: ~3,700 mg/kg

NOTE - Estimated value; 100% polymer rat oral LD50: 3,050 mg/kg

28 Day Oral RAT:

NOTE - 100% Polymer at 1,000 mg/kg/day caused no treatment related

toxicity

Dermal LD50 RABBIT: >2,500 mg/kg

NOTE - Estimated value

Non-Ames Mutagenicity :

NOTE - Polymer was negative in the In Vivo Mouse Bone Marrow

Micronucleus Assay
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12 Ecological information

AQUATIC TOXICOLOGY

BIODEGRADATION

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BOD-28 (mg/g): 12
BOD-5 (mg/g): 6
COD (mg/g): 168
TOC (mg/g): 72
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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, RQ
DOT: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.(SODIUM HYDROXIDE
 SOLUTION)
 8, UN 3266, PG III, RQ
DOT EMERGENCY RESPONSE GUIDE #: 154
Note: Some containers may be DOT exempt, please check BOL for
exact container classification
IATA: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.(SODIUM HYDROXIDE
 SOLUTION)
 8, UN 3266, PG III
IMDG: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.(SODIUM HYDROXIDE
 SOLUTION)
 8, UN 3266, PG III

15 Regulatory information

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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):
          6,674 gallons due to SODIUM HYDROXIDE;
   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 at trace levels known
       to the state of California to cause cancer.
MICHIGAN REGULATORY INFORMATION
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No regulated constituent present at OSHA thresholds

16 Other information

HMIS VII

CODE TRANSLATION

Health	1	Slight Hazard	
Fire	1	Slight Hazard	
Reactivity	0	Minimal Hazard	
Special	ALK	pH above 12.0	
(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:	15-JUN-2011		** NEW **