



# Material Safety Data Sheet

Issue Date: 18-SEP-2013  
Supersedes: 21-SEP-2011

## INHIBITOR AZ8101

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### 1 Identification

**Identification of substance or preparation**  
INHIBITOR AZ8101

**Product Application Area**  
Water-based corrosion inhibitor.

**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: 18-SEP-2013

### 2 Hazard(s) identification

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**EMERGENCY OVERVIEW**

**WARNING**

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: Mild; Appearance: Light Amber, Liquid

Fire fighters should wear positive pressure self-contained breathing apparatus(full face-piece type). Proper fire-extinguishing media: dry chemical/CO2/foam or water--slippery condition; use sand/grit.

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**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 slight gastrointestinal irritation.

**TARGET ORGANS:**

Prolonged or repeated exposures may cause primary irritant dermatitis.

**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%) |
|------------|--|--------------|
| 64665-57-2 | BENZOTRIAZOLE, METHYL, SODIUM SALT (SODIUM TOLYLTRIAZOLE), (TTA)<br>Corrosive (skin) | 15-40        |
| 1310-73-2  | SODIUM HYDROXIDE<br>Corrosive  | 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. 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 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. Dilute contents of stomach using 2-8 fluid ounces (60-240 mL) of milk or water.

**NOTES TO PHYSICIANS:**

No special instructions

## 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/CO2/foam or water--slippery condition; use sand/grit.

### **HAZARDOUS DECOMPOSITION PRODUCTS:**

oxides of carbon and nitrogen

### **FLASH POINT:**

> 200F > 93C SETA(CC)

### **MISCELLANEOUS:**

Corrosive to aluminum, RQ  
UN3266;Emergency Response Guide #154

## 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. If frozen, thaw completely and mix thoroughly prior to use. Do not store in aluminum containers.

## 8 Exposure controls / personal protection

### **EXPOSURE LIMITS**

#### **CHEMICAL NAME**

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:**



#### **AQUATIC TOXICOLOGY**

Daphnia magna 48 Hour Static Screen  
0% Mortality= 500 mg/L  
Fathead Minnow 96 Hour Acute Toxicity (Estimated)  
LC50= 520; No Effect Level= 380 mg/L  
Rainbow Trout 96 Hour Static Acute Bioassay  
LC50= 88.1; No Effect Level= 42 mg/L

#### **BIODEGRADATION**

BOD-28 (mg/g): 9  
BOD-5 (mg/g): 0  
COD (mg/g): 293  
TOC (mg/g): 94

## **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;  
BENZOTRIAZOLE,METHYL,SODIUM SALT)  
8, UN3266, PG III  
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;  
BENZOTRIAZOLE,METHYL,SODIUM SALT)  
8, UN3266, PG III  
IMDG: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.No translation  
(SODIUM HYDROXIDE; BENZOTRIAZOLE,METHYL,SODIUM SALT)maintained  
8, UN3266, 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  
G5, G7

#### **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):**

No regulated constituents present

**MICHIGAN REGULATORY INFORMATION**

No regulated constituent present at OSHA thresholds

## 16 Other information

**HMIS vII**

**CODE TRANSLATION**

|                          |     |                |
|--------------------------|-----|----------------|
| Health                   | 1   | Slight 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<br>DATE | REVISIONS TO SECTION: | SUPERCEDES  |
|--------------|-------------------|-----------------------|-------------|
|              | -----             | -----                 | -----       |
| MSDS status: | 23-JUN-1997       |                       | ** NEW **   |
|              | 21-JAN-2002       | 15                    | 23-JUN-1997 |
|              | 26-MAY-2006       | 8                     | 21-JAN-2002 |
|              | 13-JUL-2007       | 2,3,4,5,8,9,10,16     | 26-MAY-2006 |
|              | 02-JUL-2010       | 7,8,10,14             | 13-JUL-2007 |
|              | 21-SEP-2011       | 7,8,10,14             | 02-JUL-2010 |
|              | 18-SEP-2013       | 14                    | 21-SEP-2011 |