



# Material Safety Data Sheet

Issue Date: 16-SEP-2011  
Supersedes: 23-JUN-2009

CORTROL IS101

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## 1 Identification

**Identification of substance or preparation**  
CORTROL IS101

**Product Application Area**  
Powdered dissolved oxygen scavenger.

**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: 16-SEP-2011

## 2 Hazard(s) identification

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**EMERGENCY OVERVIEW**

**WARNING**

May cause moderate irritation to the skin. Potential skin sensititizer. May cause dermatitis. Severe irritant to the eyes, possibly corrosive. Dusts or mists are irritating to mucous membranes. Repeated exposure may result in respiratory sensitization.

DOT hazard is not applicable  
Odor: Slight; Appearance: Gray To Brown, Powder

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; May cause moderate irritation to the skin. Potential skin sensititizer. May cause dermatitis.

**ACUTE EYE EFFECTS:**

Severe irritant to the eyes, possibly corrosive.

**ACUTE RESPIRATORY EFFECTS:**

Primary route of exposure; Dusts or mists are irritating to mucous membranes. Repeated exposure may result in respiratory sensitization.

**INGESTION EFFECTS:**

May cause gastrointestinal irritation. Very large doses may cause diarrhea, depression, colic and death. May also cause severe allergic reactions in sensitive individuals.

**TARGET ORGANS:**

Prolonged or repeated exposures may cause CNS depression, primary irritant dermatitis, skin sensitization, and/or allergic respiratory reactions.

**MEDICAL CONDITIONS AGGRAVATED:**

Asthma, allergies, skin disorders, and chronic respiratory disease.

**SYMPTOMS OF EXPOSURE:**

Inhalation may cause eye, nose, throat and lung irritation and possible respiratory sensitization or asthma. Skin contact may cause moderate irritation to severe burns and sensitization.

### 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%)
7757-83-7	SODIUM SULFITE Severe irritant (eyes); sensitizer (skin and respiratory); IARC=3 (carcinogen status not classifiable)	60-100

**NON-HAZARDOUS INGREDIENTS:**

CAS#	CHEMICAL NAME
8061-51-6	LIGNOSULFONIC ACID, SODIUM SALT
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:**

Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get immediate 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, carbon dioxide, foam or water

**HAZARDOUS DECOMPOSITION PRODUCTS:**

oxides of carbon and sulfur

**FLASH POINT:**

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

## 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:**

Clean spill immediately. Wash contaminated skin promptly.

**STORAGE:**

Keep containers closed when not in use. Store away from acids and oxidizers.

## 8 Exposure controls / personal protection

**EXPOSURE LIMITS**

**CHEMICAL NAME**

SODIUM SULFITE

PEL (OSHA): LIMITS HAVE NOT BEEN ESTABLISHED BY US OSHA.

TLV (ACGIH): LIMITS HAVE NOT BEEN ESTABLISHED BY ACGIH.

**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	53.000 lb/cu.ft	Vapor Pressure (mmHG)	< 1.0
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	Gray To Brown		
Physical State	Powder		
Flash Point	P-M(CC)	> 200F	> 93C
pH 5% Sol. (approx.)	10.0		
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:**

No known hazardous reactions.

**INCOMPATIBILITIES:**

May react with strong oxidizers.

**DECOMPOSITION PRODUCTS:**

oxides of carbon and sulfur

## 11 Toxicological information

Oral LD50 RAT: 2850 mg/kg

NOTE - Calculated value according to GHS additivity formula

## 12 Ecological information

**AQUATIC TOXICOLOGY**

Daphnia magna 48 Hour Static Renewal Bioassay

LC50= 1025; No Effect Level= 550 mg/L

Fathead Minnow 96 Hour Static Renewal Bioassay (pH adjusted)  
LC50= 4710; No Effect Level= 1785 mg/L

**BIODEGRADATION**

BOD-28 (mg/g): 6  
BOD-5 (mg/g): 3  
COD (mg/g): 174  
TOC (mg/g): 17

## 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

**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

**FOOD AND DRUG ADMINISTRATION:**

ALL ingredients in this product are authorized in 21CFR173.310 for use as boiler water additives where the steam may contact food.

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

Registration number: 139780

Category Code(s):

- G5 Cooling and retort water treatment products - all food processing areas
- G6 Boiler treatment products - all food processing areas/food contact

**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	2	Moderate Hazard
Fire	0	Minimal Hazard
Reactivity	0	Minimal Hazard
Special	NONE	No special Hazard
(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:	21-MAY-1997		** NEW **
	21-SEP-1999	2, 3, 4, 8	21-MAY-1997
	08-JAN-2002	4, 16	21-SEP-1999
	07-JAN-2008	4, 5, 6, 8, 10	08-JAN-2002
	23-JUN-2009	10, 15	07-JAN-2008
	16-SEP-2011	11	23-JUN-2009