



# Material Safety Data Sheet

Issue Date: 08-FEB-2013  
Supersedes: 09-NOV-2010

SPECTRUS OX909

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## 1 Identification

**Identification of substance or preparation**  
SPECTRUS OX909

**Product Application Area**  
Biocide

**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: 08-FEB-2013

## 2 Hazard(s) identification

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**EMERGENCY OVERVIEW**

**DANGER**

Corrosive to skin. Corrosive to the eyes. Mists/aerosols cause irritation to the upper respiratory tract.

DOT hazard: Corrosive to skin  
Odor: Mild; Appearance: Yellow-Orange, Liquid

Fire fighters should wear positive pressure self-contained breathing apparatus(full face-piece type). Proper fire-extinguishing media: Flood with water. Use of CO2 or foam may not be effective.

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**POTENTIAL HEALTH EFFECTS**

**ACUTE SKIN EFFECTS:**  
Primary route of exposure; Corrosive to skin.

**ACUTE EYE EFFECTS:**  
Corrosive to the eyes.

**ACUTE RESPIRATORY EFFECTS:**  
Mists/aerosols 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 primary irritant dermatitis and/or tissue necrosis.

**MEDICAL CONDITIONS AGGRAVATED:**

Not known.

**SYMPTOMS OF EXPOSURE:**

Causes severe irritation, burns or tissue ulceration with subsequent scarring.

### 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.

**HAZARDOUS INGREDIENTS:**

Cas#	Chemical Name	Range (w/w%)
PROPRIETARY	HALOGENATED COMPLEX Strong oxidizer; corrosive	15-40
13845-18-6	SODIUM SULPHAMIDATE Potential irritant	15-40
1310-73-2	SODIUM HYDROXIDE Corrosive; toxic (by ingestion)	7-13

### 4 First-aid measures

**SKIN CONTACT:**

URGENT! Wash thoroughly with soap and water. Remove contaminated clothing. Get immediate medical attention. Thoroughly wash clothing before reuse.

**EYE CONTACT:**

URGENT! Immediately flush eyes with water for 30 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. If vomiting occurs naturally have victim lean forward to reduce risk of aspiration.

**NOTES TO PHYSICIANS:**

Probable 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:**

Flood with water. Use of CO2 or foam may not be effective.

### **HAZARDOUS DECOMPOSITION PRODUCTS:**

oxides of carbon, hydrogen chloride and hydrogen bromide

### **FLASH POINT:**

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

### **MISCELLANEOUS:**

Corrosive to skin

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 with water. Spread sand/grit. Do not use organic materials.

### **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:**

Oxidizer. Avoid all contact with reducing agents, oils, greases, organics and acids. Corrosive to skin and/or eyes.

### **STORAGE:**

Shelf life = 270 days. Store between 40 and 100F ( 4 and 38C). Avoid excessive heat and contamination. Store only in vented containers. Avoid exposure to direct sunlight. Store away from acids. Do not store in steel or aluminum containers.

## 8 Exposure controls / personal protection

### **EXPOSURE LIMITS**

#### **CHEMICAL NAME**

#### HALOGENATED COMPLEX

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

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

#### SODIUM SULPHAMIDATE

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:**

gauntlet-type nitrile gloves, chemical resistant apron-- Wash off after each use. Replace as necessary.

**EYE PROTECTION:**

splash proof chemical goggles, face shield

## 9 Physical and chemical properties

Spec. Grav. (70F, 21C)	1.347	Vapor Pressure (mmHG)	~ 18.0
Freeze Point (F)	21	Vapor Density (air=1)	1.10
Freeze Point (C)	-6		
Viscosity (cps 70F, 21C)	9	% Solubility (water)	100.0

Odor	Mild
Appearance	Yellow-Orange
Physical State	Liquid
Flash Point	P-M(CC) > 200F > 93C
pH As Is (approx.)	13.0
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:**

Contact with strong acids may cause a violent reaction releasing heat. Shock, friction, heat or other sources of ignition may cause a violent reaction releasing heat and toxic fumes. Contact with reducing agents or flammable/combustible material may cause fire or explosion. Contact with metals may cause a violent reaction releasing heat and toxic gas.

**INCOMPATIBILITIES:**

May react with organics or acids.

**DECOMPOSITION PRODUCTS:**

oxides of carbon, hydrogen chloride and hydrogen bromide

## 11 Toxicological information

Oral LD50 RAT: 2,491 mg/kg  
Dermal LD50 RABBIT: >2,000 mg/kg  
Inhalation LC50 RAT: >20.37 mg/L

## 12 Ecological information

### AQUATIC TOXICOLOGY

Bluegill Sunfish 96 Hour Static Acute Bioassay  
LC50= 3.8 mg/L  
Daphnia magna 48 Hour Static Acute Bioassay  
EC50= 4.8 mg/L  
Menidia medidia (Silversides) 96 Hour Flow-Thru Bioassay  
LC50= 2.3 mg/L  
Rainbow Trout 96 Hour Static Acute Bioassay  
LC50= 3 mg/L  
Selenastrum (algae) 96 Hour Growth Inhibition  
EC50= 2.6 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 skin  
DOT: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (HALOGENATED COMPLEX;  
SODIUM HYDROXIDE)  
8, UN3266, PG III, (SODIUM HYDROXIDE) 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. (HALOGENATED COMPLEX;  
SODIUM HYDROXIDE)  
8, UN3266, PG III  
IMDG: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (HALOGENATED COMPLEX;  
SODIUM HYDROXIDE)  
8, UN3266, PG III

## 15 Regulatory information

### TSCA:

This is an EPA registered biocide and is exempt from TSCA inventory requirements.

**CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ) :**

900 gallons due to SODIUM HYDROXIDE;

**FIFRA REGISTRATION NUMBER:**

3377-55-3876

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

Registration number: 140719

Category Code(s):

- G5 Cooling and retort water treatment products - all food processing areas
- G7 Boiler treatment products - all food processing areas/nonfood 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	3	Serious Hazard
Fire	0	Minimal Hazard
Reactivity	0	Minimal Hazard
Special	CORR	DOT corrosive
(1) Protective Equipment	D	Goggles,Face Shield,Gloves,Apron

(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:	14-OCT-2003		** NEW **
	10-DEC-2003	15	14-OCT-2003
	08-APR-2005	13	10-DEC-2003
	26-MAY-2006	8	08-APR-2005
	17-DEC-2007	14	26-MAY-2006
	24-JUN-2009	10,15	17-DEC-2007
	12-FEB-2010	14	24-JUN-2009
	09-NOV-2010	3,4,5,7,8,10	12-FEB-2010
	08-FEB-2013	7	09-NOV-2010