



Material Safety Data Sheet

Issue Date: 07-NOV-2011
Supersedes: 30-APR-2010

SPECTRUS OX903

1 Identification

Identification of substance or preparation
SPECTRUS OX903

Product Application Area
Solid microbial control agent.

Company/Undertaking Identification
GE Betz, Inc.
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Trevose, PA 19053
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Emergency Telephone
(800) 877-1940

Prepared by Product Stewardship Group: T 215-355-3300 Prepared on: 07-NOV-2011

2 Hazard(s) identification

EMERGENCY OVERVIEW

DANGER

May cause moderate irritation to the skin. Potential skin sensitizer. Corrosive to the eyes. Mists/aerosols cause irritation to the upper respiratory tract.

DOT hazard: Environmentally hazardous substance: Marine Pollutant
Odor: Mild; Appearance: White, 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

POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS:

Primary route of exposure; May cause moderate irritation to the skin. Potential skin sensitizer.

ACUTE EYE EFFECTS:

Corrosive to the eyes.

ACUTE RESPIRATORY EFFECTS:

Primary route of exposure;Highly Toxic;Mists/aerosols cause

irritation to the upper respiratory tract.

INGESTION EFFECTS:

Toxic;

May cause severe irritation or burning of mouth, throat, and gastrointestinal tract with severe chest and abdominal pain, nausea, vomiting, diarrhea, lethargy and collapse. Possible death when ingested in very large doses.

TARGET ORGANS:

Repeated skin contact may cause sensitization.

MEDICAL CONDITIONS AGGRAVATED:

Not known.

SYMPTOMS OF EXPOSURE:

Causes redness or itching of skin, possibly leading to burns (dependent on the length of exposure).

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%)
10222-01-2	DBNPA (2,2-DIBROMO-3-NITRILOPROPIONAMIDE) Corrosive (eyes); highly toxic(by inhalation); toxic(by ingestion); potential sensitizer	60-100

NON-HAZARDOUS INGREDIENTS:

CAS#	CHEMICAL NAME
NOT ASSIGNED	INERT INGREDIENTS

4 First-aid measures

SKIN CONTACT:

Wash thoroughly with soap and water for at least 15 minutes.
Remove contaminated clothing. Thoroughly wash clothing before reuse. Get immediate medical attention.

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. Apply necessary first aid treatment.
Immediately contact a physician.

INGESTION:

Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician. Wash mouth with water. Do not give water to drink.

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:

elemental oxides

FLASH POINT:

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

MISCELLANEOUS:

Environmentally hazardous substance: Marine Pollutant
UN 3077;Emergency Response Guide #171

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. Spread sand/grit. Neutralize with soda ash.

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 - Dispose of in approved pesticide facility or according to label instructions.

7 Handling and storage

HANDLING:

Corrosive to eyes.

STORAGE:

Keep containers closed when not in use. Keep dry. Store below 140F (60C). Store away from reducing agents and oxidizers.

8 Exposure controls / personal protection

EXPOSURE LIMITS**CHEMICAL NAME**

DBNPA (2,2-DIBROMO-3-NITRILOPROPIONAMIDE)

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

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

MISC: Note- manufacturer's recommended exposure limit: 2 mg/m3 (ceiling)-for powder.

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 a respirator with organic vapor/acid gas cartridges and dust/mist prefilters.

SKIN PROTECTION:

butyl gloves-- Wash off after each use. Replace as necessary.

EYE PROTECTION:

airtight chemical goggles

9 Physical and chemical properties

Density	NO DATA	Vapor Pressure (mmHG)	< 0.1
Freeze Point (F)	NA	Vapor Density (air=1)	< 1.00
Freeze Point (C)	NA		
Viscosity(cps 70F,21C)	NA	% Solubility (water)	1.5
Odor		Mild	
Appearance		White	
Physical State		Powder	
Flash Point	P-M(CC)	> 200F > 93C	
pH 1.5% Solution (approx.)		6.8	
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:

Above 120 deg. C bromine, cyanogen bromide and dibromoacetonitrile are formed. May react with bases or strong oxidizers.

DECOMPOSITION PRODUCTS:

elemental oxides

11 Toxicological information

Oral LD50 RAT:	206 mg/kg
Dermal LD50 RAT:	>2000 mg/kg
Inhalation LC50 RAT:	0.32 mg/l/4hour

12 Ecological information

AQUATIC TOXICOLOGY

Bluegill Sunfish 96 Hour Static Acute Bioassay
LC50= 32.5 mg/L
Daphnia magna 21 Day Flow-Thru Life-Cycle Chronic Bioassay
Reproduction EC50= 3.25; Reproduction NOEL= 1.75 mg/L
Daphnia magna 48 Hour Static Renewal Bioassay
LC50= 16.5; No Effect Level= 10.75 mg/L
Fathead Minnow 96 Hour Static Renewal Bioassay
LC50= 43.5; No Effect Level= 15.5 mg/L
Rainbow Trout 96 Hour Static Acute Bioassay
LC50= 11.5; No Effect Level= 9 mg/L
Sheepshead Minnow 96 Hour Static Acute Bioassay
LC50= 35 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 :
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: Environmentally hazardous substance: Marine
Pollutant

DOT: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(2,
2-DIBROMO-3-NITRILOPROPIONAMIDE)
9, UN3077, PG III, MARINE POLLUTANT

DOT EMERGENCY RESPONSE GUIDE #: 171

Note: Some containers may be DOT exempt, please check BOL for exact container classification

IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(2,
2-DIBROMO-3-NITRILOPROPIONAMIDE)
9, UN 3077, PG III

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(2,
2-DIBROMO-3-NITRILOPROPIONAMIDE)
9, UN3077, PG III, MARINE POLLUTANT

15 Regulatory information

TSCA:

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

CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):

No regulated constituent present at OSHA thresholds

FIFRA REGISTRATION NUMBER:

8622-56-3876

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

Registration number: 140721

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);Reactive

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	1	Slight Hazard
Reactivity	1	Slight 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:	19-APR-2002		** NEW **
	24-SEP-2002	15	19-APR-2002
	24-JUL-2008	11	24-SEP-2002
	24-JUN-2009	10,15	24-JUL-2008
	30-APR-2010	14	24-JUN-2009
	07-NOV-2011	11	30-APR-2010