



# Material Safety Data Sheet

Issue Date: 24-JUN-2009 Supercedes: 11-SEP-2008

## SPECTRUS OX105

# **1** Identification

Identification of substance or preparation SPECTRUS OX105

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: 24-JUN-2009

# 2 Hazard(s) identification

## EMERGENCY OVERVIEW

## DANGER

Severe irritant to the skin. Potential skin sensitizer. Corrosive to the eyes. Irritation of the upper respiratory tract. Prolonged exposure may cause dizziness and headache.

DOT hazard: Oxidizer Odor: Chlorine; Appearance: Off-White To Yellow, Tablets

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.

### POTENTIAL HEALTH EFFECTS

#### ACUTE SKIN EFFECTS:

Primary route of exposure; Severe irritant to the skin. Potential skin sensitizer.

## ACUTE EYE EFFECTS:

Corrosive to the eyes.

### ACUTE RESPIRATORY EFFECTS:

Primary route of exposure; Irritation of the upper respiratory

tract. Prolonged exposure may cause dizziness and headache.

#### INGESTION EFFECTS:

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:

Prolonged or repeated exposures may cause toxicity to the lung.

#### MEDICAL CONDITIONS AGGRAVATED:

Not known.

## SYMPTOMS OF EXPOSURE:

Inhalation of dust and/or vapors may cause eye, nose, throat and respiratory tract irritation.

# 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 R	ange(w/w%)
87-90-1	TRICHLORO-S-TRIAZINETRIONE Oxidizer; corrosive (eyes); toxic (by ingestion); irritant (skin and respiratory)	60-100
7647-15-6	SODIUM BROMIDE Irritant	7-13
10043-35-3 NON-HAZARDOU	BORIC ACID Irritant; potential kidney toxin S INGREDIENTS:	0.5-1.5
~~ ~ "		

CAS#

CHEMICAL NAME

NONE

# 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 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

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breathing has stopped, give artificial respiration. Get immediate medical attention.
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### 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:

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

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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 and nitrogen, hydrogen chloride, and hydrogen
bromide
FLASH POINT:
> 200F > 93C P-M(CC)
MISCELLANEOUS:
Oxidizer
UN 2468;Emergency Response Guide #141
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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.

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DISPOSAL INSTRUCTIONS:
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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:

Oxidizer. Avoid all contact with reducing agents, oils, greases, organics and acids.

#### STORAGE :

Keep containers closed when not in use. Keep dry. Do not store at high temperature or near oxidizables or combustibles. Shelf life 360 days.

## 8 Exposure controls / personal protection

#### CHEMICAL NAME

TRICHLORO-S-TRIAZINETRIONE PEL (OSHA): 0.5 PPM(STEL-1 PPM) AS CHLORINE TLV (ACGIH): 0.5 PPM(STEL-1 PPM) AS CHLORINE SODIUM BROMIDE PEL (OSHA): NOT DETERMINED TLV (ACGIH): NOT DETERMINED BORIC ACID PEL (OSHA): NOT DETERMINED TLV (ACGIH): TWA = 2 MG/M3; STEL = 6 MG/M3; A4 (As Borate compounds, Inorganic) 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 acid gas cartridges and dust/mist prefilters. SKIN PROTECTION: viton gloves-- Wash off after each use. Replace as necessary. EYE PROTECTION: splash proof chemical goggles

# 9 Physical and chemical properties

Density Freeze Point (F) Freeze Point (C)	45.000 lb NA NA	/cu.ft Vapor Pressure (m Vapor Density (ai	
Viscosity(cps 70F,21C)	NA	% Solubility (wat	er) ~ 1.0
Odor Appearance Physical State Flash Point P- pH 1% Sol. (approx.) Evaporation Rate (Ether Percent VOC:	-M(CC) r=1)	Chlorine Off-White To Yellow Tablets > 200F > 93C 3.2 < 1.00 0.0	

NA = not applicable ND = not determined

# 10 Stability and reactivity

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CHEMICAL STABILITY:
   Stable under normal storage conditions.
POSSIBILITY OF HAZARDOUS REACTIONS:
   No known hazardous reactions.
INCOMPATIBILITIES:
   Decomposes dry(350-475F); Wet(75F) with release of chlorine. Reacts
   with oxidizers.
DECOMPOSITION PRODUCTS:
   oxides of carbon and nitrogen, hydrogen chloride, and hydrogen
   bromide
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# **11 Toxicological information**

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Oral LD50 RAT: 840 mg/kg

NOTE - Supplier Estimated

Dermal LD50 RABBIT: >5,000 mg/kg

NOTE - Supplier Estimated

Skin Irritation Score RABBIT: CORROSIVE

NOTE - Supplier Estimated; 4hr test

Eye Irritation Score RABBIT: CORROSIVE

NOTE - Supplier Estimated; 24 hour test
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# **12 Ecological information**

## AQUATIC TOXICOLOGY

Bluegill Sunfish 96 Hour Static Acute Bioassay LC50= .4 mg/L Daphnia magna 48 Hour Static Acute Bioassay LC50= .21 mg/L Rainbow Trout 96 Hour Static Acute Bioassay LC50= .24 mg/L

### BIODEGRADATION

BOD-28 (mg/g): 0 BOD-5 (mg/g): 0 TOC (mg/g): 120

## 13 Disposal considerations

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If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is : D001=Ignitable.
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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

DOT HAZARD: Oxidizer PROPER SHIPPING NAME: TRICHLOROISOCYANURIC ACID DRY 5.1, UN 2468, PG II DOT EMERGENCY RESPONSE GUIDE #: 141 Note: Some containers may be DOT exempt, please check BOL for exact container classification

# 15 Regulatory information

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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:
          935-78-3876
   NSF Registered and/or meets USDA (according to 1998 Guidelines):
          Registration number: 139018
         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);Fire;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
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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	2	Moderate Hazard
Special	NONE	No special Hazard
(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:	01-DEC-1997		** NEW **
	21-JAN-1998	15	01-DEC-1997
	12-MAY-1998	;EDIT:9	21-JAN-1998
	22-MAR-2001	15	12-MAY-1998
	15-JAN-2002	15	22-MAR-2001
	16-APR-2007	2,4,5,7,8,10,15	15-JAN-2002
	11-SEP-2008	8	16-APR-2007
	24-JUN-2009	10,15	11-SEP-2008