



Material Safety Data Sheet

Issue Date: 02-NOV-2011 Supercedes: 24-JUN-2009

OPTISPERSE AP0520

1 Identification

Identification of substance or preparation OPTISPERSE AP0520

Product Application Area Water based internal boiler treatment chemical.

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: 02-NOV-2011

2 Hazard(s) identification

EMERGENCY OVERVIEW

CAUTION

May cause slight irritation to the skin. May cause slight irritation to the eyes. Mists/aerosols may cause irritation to upper respiratory tract.

DOT hazard is not applicable Odor: Mild; Appearance: Yellow, Liquid

POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS:

Primary route of exposure; May cause slight irritation to the skin.

ACUTE EYE EFFECTS:

May cause slight 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:

No evidence of potential chronic effects.

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:

This product is not hazardous as defined by OSHA regulations.

No component is considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration at Pennsylvania thresholds for carcinogens. NON-HAZARDOUS INGREDIENTS:

CAS#

CHEMICAL NAME

7732-18-5	WATER					
7757-82-6	SODIUM SU	LFATE				
25086-62-8	2-METHYL,	PROPENOIC	ACID,	HOMOPOLYMER,	SODIUM	SALT

4 First-aid measures

SKIN CONTACT:

Wash thoroughly with soap and water. 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

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FIRE FIGHTING INSTRUCTIONS:
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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
FLASH POINT:
    > 200F > 93C P-M(CC)
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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. DISPOSAL INSTRUCTIONS: Water contaminated with this product may be sent to a sanitary sewer

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

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HANDLING:
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Normal chemical handling.

STORAGE :

Keep containers closed when not in use. Do not freeze. If frozen, thaw and mix completely prior to use.

8 Exposure controls / personal protection

EXPOSURE LIMITS

This product is not hazardous as defined by OSHA regulations.

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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:
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rubber, butyl, viton or neoprene gloves -- Wash off after each use. Replace as necessary. EYE PROTECTION: splash proof chemical goggles

9 Physical and chemical properties

Spec. Grav. (70F, 21C) 1.208 Vapor Pressure (mmHG) ~ 18.0 Freeze Point (F)21Freeze Point (C)-6 Vapor Density (air=1) < 1.00 Viscosity(cps 70F,21C) 209 % Solubility (water) 100.0 Odor Mild Appearance Yellow Physical State Flash Point P-M(CC) Liquid > 200F > 93C pH As Is (approx.) 10.3 < 1.00 Evaporation Rate (Ether=1) 0.0 Percent VOC:

NA = not applicable ND = not determined

10 Stability and reactivity

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CHEMICAL STABILITY:
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Stable under normal storage conditions. POSSIBILITY OF HAZARDOUS REACTIONS: No known hazardous reactions. INCOMPATIBILITIES: May react with strong oxidizers. DECOMPOSITION PRODUCTS: oxides of carbon

11 Toxicological information

Oral LD50 RAT: >5000 mg/kg NOTE - Calculated value according to GHS additivity formula Dermal LD50 RABBIT: >5000 mg/kg NOTE - Calculated value according to GHS additivity formula

12 Ecological information

AQUATIC TOXICOLOGY

Daphnia magna 48 Hour Acute Toxicity (Estimated) LC50= 1730; No Effect Level= 1390 mg/L Fathead Minnow 96 Hour Acute Toxicity (Estimated) LC50= 4720; No Effect Level= 1960 mg/L

BIODEGRADATION

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BOD-28 (mg/g): 0
BOD-5 (mg/g): 0
COD (mg/g): 390
TOC (mg/g): 117
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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

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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
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IMDG: Not Regulated

15 Regulatory information

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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: 141190
          Category Code(s):
       G8
             Cooling and retort water treatment products - all
             food processing areas except meat and poultry
             Boiler treatment products - all food processing
       G9
             areas except meat and poultry/food contact
    SARA SECTION 312 HAZARD CLASS:
          Product is non-hazardous under Section 311/312
    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
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MICHIGAN REGULATORY INFORMATION

No regulated constituent present at OSHA thresholds

16 Other information

HMIS VII

CODE TRANSLATION

Health	1	Slight Hazard
Fire	1	Slight Hazard
Reactivity	0	Minimal 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:	 07-JUN-2000		 ** NEW **
	08-JUN-2000		07-JUN-2000
	01-DEC-2006	4,5,10,15	08-JUN-2000
	03-SEP-2008	4,8,15	01-DEC-2006
	24-JUN-2009	4,8,10,15	03-SEP-2008
	02-NOV-2011	11	24-JUN-2009