

## GE Water & Process Technologies

## Material Safety Data Sheet

Issue Date: 14-FEB-2012 Supercedes: 06-DEC-2010

### **OPTISPERSE HP54434**

### 1 Identification

Identification of substance or preparation OPTISPERSE HP54434

### **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: 14-FEB-2012

## 2 Hazard(s) identification

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### EMERGENCY OVERVIEW

### DANGER

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

DOT hazard: Corrosive to skin Odor: None; Appearance: Colorless To Light Yellow, Liquid

Fire fighters should wear positive pressure self-contained breathing apparatus(full face-piece type). Proper fire-extinguishing media: dry chemical/CO2/foam or water--slippery condition; use sand/grit.

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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 may cause irritation to upper respiratory tract.

### INGESTION EFFECTS:

May cause gastrointestinal irritation with possible nausea, vomiting, diarrhea, incoordination, mental confusion, dizziness and lethargy.

### TARGET ORGANS:

No evidence of potential chronic effects.

### MEDICAL CONDITIONS AGGRAVATED:

Not known.

#### SYMPTOMS OF EXPOSURE:

May cause redness or itching of skin, irritation, and/or tearing of eyes (direct contact).

## 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:

Chemical Name Cas# Range (w/w%)

1310-73-2 SODIUM HYDROXIDE 3 - 7

Corrosive; toxic (by ingestion)

### NON-HAZARDOUS INGREDIENTS:

CAS# CHEMICAL NAME

7732-18-5 WATER

68915-31-1 SODIUM HEXAMETAPHOSPHATE

## 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 plenty of low-pressure water for at least 20 minutes while removing contact lenses. Hold eyelids apart. 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

### FIRE FIGHTING INSTRUCTIONS:

Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).

### EXTINGUISHING MEDIA:

dry chemical/CO2/foam or water--slippery condition; use sand/grit.

### HAZARDOUS DECOMPOSITION PRODUCTS:

oxides of carbon

### FLASH POINT:

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

#### MISCELLANEOUS:

Corrosive to skin

UN 3266; 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 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 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:**

Alkaline. Do not mix with acidic material.

### 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

### CHEMICAL NAME

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SODIUM HYDROXIDE
PEL (OSHA): 2 MG/M3
TLV (ACGIH): TWA (Ceiling) = 2 MG/M3
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### 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 dust/mist filters.

### SKIN PROTECTION:

gauntlet-type neoprene 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

Odor None

Appearance Colorless To Light Yellow Physical State Liquid

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.

### INCOMPATIBILITIES:

May react with strong oxidizers.

### DECOMPOSITION PRODUCTS:

oxides of carbon

## 11 Toxicological information

Oral LD50 RAT: >2,000 mg/kg
NOTE - Estimated value

Dermal LD50 RABBIT: >2,000 mg/kg
NOTE - Estimated value

## 12 Ecological information

### AQUATIC TOXICOLOGY

Daphnia magna 48 Hour Acute Toxicity (Estimated)
LC50 Greater Than= 5000; No Effect Level= 4950 mg/L
Fathead Minnow 96 Hour Acute Toxicity (Estimated)
No Effect Level= 5000 mg/L

### BIODEGRADATION

Product contains only inorganics that are not subject to typical biological degradation. Assimilation by microbes may occur in waste treatment or the environment.

## 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

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Transportation Hazard: Corrosive to skin

DOT: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.(SODIUM HYDROXIDE SOLUTION)
8, UN3266, PG III, 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.(SODIUM HYDROXIDE SOLUTION)
8, UN3266, PG III

IMDG: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.(SODIUM HYDROXIDE SOLUTION)
8, UN3266, PG III
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## 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):

3,213 gallons due to SODIUM HYDROXIDE;

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

Registration number: Not Registered

SARA SECTION 312 HAZARD CLASS:

Immediate(acute)

SARA SECTION 302 CHEMICALS:

No regulated constituent present at OSHA thresholds

SARA SECTION 313 CHEMICALS:

No regulated constituent present at OSHA thresholds
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CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):

No regulated constituents present

MICHIGAN REGULATORY INFORMATION

CALIFORNIA 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