

## GE Water & Process Technologies

## Material Safety Data Sheet

Issue Date: 15-JUN-2011

Supercedes:

### FLOGARD POT6100

### 1 Identification

Identification of substance or preparation FLOGARD POT6100

#### **Product Application Area**

Potable water 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: 15-JUN-2011

## 2 Hazard(s) identification

### \*

#### EMERGENCY OVERVIEW

#### CAUTION

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

DOT hazard: Corrosive to aluminum Odor: Slight; Appearance: Colorless To Yellow, Liquid

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

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#### POTENTIAL HEALTH EFFECTS

#### ACUTE SKIN EFFECTS:

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

### ACUTE EYE EFFECTS:

May cause moderate 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:

Cas# Chemical Name Range(w/w%)

7320-34-5 TETRAPOTASSIUM PYROPHOSPHATE 40-70

Corrosive to aluminum; severe eye irritant; skin

irritant

#### NON-HAZARDOUS INGREDIENTS:

CAS# CHEMICAL NAME

7732-18-5 WATER

## 4 First-aid measures

### SKIN CONTACT:

Wash thoroughly with soap and water. Remove contaminated clothing. 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  $(60-240\ \text{mL})$  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, carbon dioxide, foam or water

#### HAZARDOUS DECOMPOSITION PRODUCTS:

oxides of phosphorus

#### FLASH POINT:

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

### 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:

Normal chemical handling.

#### STORAGE:

Keep containers closed when not in use. Reasonable and safe chemical storage. Do not store in aluminum containers.

## 8 Exposure controls / personal protection

#### EXPOSURE LIMITS

### CHEMICAL NAME

TETRAPOTASSIUM PYROPHOSPHATE

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

#### 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,

SKIN PROTECTION:

R99, R100, P95, P99 or P100.

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viton or neoprene gloves -- Wash off after each use. Replace as necessary.
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#### EYE PROTECTION:

splash proof chemical goggles

## 9 Physical and chemical properties

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Spec. Grav. (70F, 21C) 1.735
                                       Vapor Pressure (mmHG) ~ 15.0
Freeze Point (F) < -30
Freeze Point (C) < -34
                                       Vapor Density (air=1) < 1.00
Viscosity(cps 70F,21C) 78
                                       % Solubility (water)
                                                                100.0
Odor
                                    Slight
                                    Colorless To Yellow
Appearance
Physical State
Flash Point
                                   Liquid
                   P-M(CC)
                                   > 200F > 93C
                                   11.0
pH As Is (approx.)
                                   < 1.00
Evaporation Rate (Ether=1)
                                     0.0
Percent VOC:
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NA = not applicable ND = not determined

## 10 Stability and reactivity

#### CHEMICAL STABILITY:

Stable under normal storage conditions.

#### POSSIBILITY OF HAZARDOUS REACTIONS:

Contact with water reactive compounds may cause fire or explosion.

### INCOMPATIBILITIES:

May react violently with water reactive compounds.

### DECOMPOSITION PRODUCTS:

oxides of phosphorus

## 11 Toxicological information

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Oral LD50 RAT:

NOTE - Calculated value according to GHS additivity formula

Dermal LD50 RABBIT:

NOTE - Calculated value according to GHS additivity formula

Skin Irritation Score RABBIT:

Eye Irritation Score RABBIT:

11.1
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## 12 Ecological information

#### AQUATIC TOXICOLOGY

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Bluegill Sunfish 48 Hour Static Screen
0% Mortality= 500 mg/L
Daphnia magna 48 Hour Static Renewal Bioassay (pH adjusted)
LC50= 660; No Effect Level= 268 mg/L
Fathead Minnow 96 Hour Static Renewal Bioassay (pH adjusted)
LC50= 785; No Effect Level= 423 mg/L
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### 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: 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: Corrosive to aluminum

DOT: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.(TETRAPOTASSIUM PYROPHOSPHATE)
8, UN 3266, PG III

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.(TETRAPOTASSIUM PYROPHOSPHATE)
8, UN 3266, PG III

IMDG: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.(TETRAPOTASSIUM PYROPHOSPHATE)
8, UN 3266, PG III
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## 15 Regulatory information

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TSCA:
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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:

The ingredients in this product are Generally Recognized As Safe by FDA for direct addition to human food.

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

Registration number: 139138 Category Code(s):

G2 Phosphate products

- G5 Cooling and retort water treatment products all food processing areas
- G6 Boiler treatment products all food processing areas/food contact

#### 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

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	1	Slight Hazard
Fire	0	Minimal Hazard
Reactivity	0	Minimal Hazard
Special	ALK	pH above 12.0
(1) Protective Equipment	В	Goggles, Gloves

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

#### CHANGE LOG

EFFECTIVE

Substance or Preparation: FLOGARD POT6100