

# GE Water & Process Technologies

# Material Safety Data Sheet

Issue Date: 01-FEB-2011 Supercedes: 23-MAR-2009

### **GENGARD GN7112**

### 1 Identification

Identification of substance or preparation GENGARD GN7112

### **Product Application Area**

Corrosion inhibitor

#### 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: 01-FEB-2011

# 2 Hazard(s) identification

### \*

#### EMERGENCY OVERVIEW

#### WARNING

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

DOT hazard: Corrosive to aluminum Odor: Slight Ammonia; Appearance: Amber To Brown, 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

#### POTENTIAL HEALTH EFFECTS

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#### ACUTE SKIN EFFECTS:

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

#### ACUTE EYE EFFECTS:

Severe irritant to the eyes.

### ACUTE RESPIRATORY EFFECTS:

Mists/aerosols may cause irritation to upper respiratory tract.

#### INGESTION EFFECTS:

May cause severe 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, 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:

Cas#	Chemical Name	Range(w/w%)
7778-53-2	PHOSPHORIC ACID, TRIPOTASSIUM SALT Severe irritant (eyes); irritant (skin)	15-40
903573-39-7	ACRYLATE TERPOLYMER Eye irritant	10-20
202420-04-0	CHLOROTOLYLTRIAZOLE SODIUM SALT Potential irritant	1-5

### 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. Thoroughly wash clothing before reuse. 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 —  $\mbox{\it remove}$  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, carbon dioxide, foam or water

HAZARDOUS DECOMPOSITION PRODUCTS:

#### FLASH POINT:

> 213F > 101C 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. Protect from freezing. Do not store at elevated temperatures.

# 8 Exposure controls / personal protection

#### EXPOSURE LIMITS

#### CHEMICAL NAME

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PHOSPHORIC ACID, TRIPOTASSIUM SALT
PEL (OSHA): LIMITS HAVE NOT BEEN ESTABLISHED BY US OSHA.
TLV (ACGIH): LIMITS HAVE NOT BEEN ESTABLISHED BY ACGIH.

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

CHLOROTOLYLTRIAZOLE SODIUM SALT
PEL (OSHA): LIMITS HAVE NOT BEEN ESTABLISHED BY US OSHA.
TLV (ACGIH): LIMITS HAVE NOT BEEN ESTABLISHED BY ACGIH.
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### ENGINEERING CONTROLS:

#### 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:

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) 1.397 Vapor Pressure (mmHG) ~ 18.0 Freeze Point (F) -11 Vapor Density (air=1) < 1.00 Freeze Point (C) -24 Viscosity(cps 70F,21C) 88 % Solubility (water) 100.0

Odor Slight Ammonia
Appearance Amber To Brown
Physical State Liquid
Flash Point P-M(CC) > 213F > 100C
pH As Is (approx.) > 13.0
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:

### INCOMPATIBILITIES:

May react with acids or strong oxidizers. DECOMPOSITION PRODUCTS:

# 11 Toxicological information

No Data Available.

# 12 Ecological information

#### AQUATIC TOXICOLOGY

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Daphnia magna 48 Hour Estimated Acute Toxicity (Estimated/pH adjusted)

LC50= 960; No Effect Level= 500 mg/L
Fathead Minnow 96 Hour Estimated Acute Toxicity (Estimated/pH adjusted)

LC50= 410; No Effect Level= 180 mg/L
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#### BIODEGRADATION

BOD-28 (mg/g): 16 BOD-5 (mg/g): 6 COD (mg/g): 168 TOC (mg/g): 50

# 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 aluminum

DOT: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.(TRIPOTASSIUM SALT OF PHOSPHORIC ACID)

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.(TRIPOTASSIUM SALT OF PHOSPHORIC ACID)

8, UN 3266, PG III

IMDG: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.(TRIPOTASSIUM SALT OF PHOSPHORIC ACID)

8, UN 3266, 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):

No regulated constituent present at OSHA thresholds

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:
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### CALIFORNIA REGULATORY INFORMATION

# CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):

This product contains one or more ingredients at trace levels known to the state of California to cause cancer.

#### MICHIGAN REGULATORY INFORMATION

No regulated constituent present at OSHA thresholds

## 16 Other information

HMIS VII CODE TRANSLATION
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Health	2	Moderate Hazard
Fire	1	Slight 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

EFE	EC	TΙ	VE
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	DATE	REVISIONS TO SECTION:	SUPERCEDES
MSDS status:	31-OCT-2008		** NEW **
	23-MAR-2009	12	31-OCT-2008
	01-FEB-2011	8	23-MAR-2009