



SAFETY DATA SHEET

FOODPRO* ST8072

1. Product and Company Identification

Material name **FOODPRO ST8072**
Version # 2.0
Revision date Dec-19-2014
Supersedes date Jul-08-2014
CAS # Mixture
Product application 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

2. Hazards Identification

Emergency overview **WARNING**

Causes skin irritation. Causes eye irritation. Mists/aerosols may cause irritation to upper respiratory tract.

Medical conditions aggravated by exposure None known.

3. Composition / Information on Ingredients

Hazardous components	CAS #	Percent
Sodium nitrite	7632-00-0	20 - 40
Sodium silicate	1344-09-8	2.5 - 10
Boric acid,disodium salt,pentahydrate	12179-04-3	1 - 2.5
Sodium hydroxide	1310-73-2	1 - 2.5
Non-hazardous components	CAS #	
Water	7732-18-5	

4. First Aid Measures

First aid procedures

Eye contact Remove contact lenses, if present and easy to do. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately.

Skin contact Wash thoroughly with soap and water. Take off contaminated clothing and wash before reuse. Get medical attention if irritation develops and persists.

Inhalation If symptoms develop move victim to fresh air. Get medical attention immediately.

Ingestion

If the victim is fully conscious dilute contents of stomach using 3-4 glasses of water. Do not induce vomiting. Call a physician immediately.

5. Fire Fighting Measures**Extinguishing media**

Suitable extinguishing media Water only; no dry chemical, CO2 or Halon.

Unsuitable extinguishing media Foam. Carbon dioxide (CO2).

Protection of firefighters

Protective equipment and precautions for firefighters Firefighters should wear full protective clothing including self contained breathing apparatus.

Fire fighting equipment/instructions

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

6. Accidental Release Measures**Environmental precautions**

Water contaminated with this product may be sent to a sanitary sewer treatment facility, or a permitted waste treatment facility, in accordance with any local agreements.

Other information

Ventilate area, use specified protective equipment. Contain and absorb on absorbent material (e.g. sand). Place in waste disposal container. Clean with water.

7. Handling and Storage**Handling**

Handle in accordance with good industrial hygiene and safety procedures. Avoid all contact with reducing agents, oils, greases, organics and acids. Do not allow to dry.

Storage

Keep containers closed when not in use. Do not freeze. Keep in a cool place.

8. Exposure Controls / Personal Protection**Occupational exposure limits****US. ACGIH Threshold Limit Values**

Components	Type	Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m ³

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Sodium hydroxide (CAS 1310-73-2)	PEL	2 mg/m ³

Biological limit values

No biological exposure limits noted for the ingredient(s).

Engineering controls

Adequate ventilation to maintain air contaminants below exposure limits.

Personal protective equipment

Eye / face protection Wear chemical goggles.

Skin protection Chemical resistant gloves.

Respiratory protection If air-purifying respirator use is appropriate, use organic vapor cartridges and any of the following particulate respirators: N95, N99, N100, R95, R99, R100, P95, P99 or P100.

9. Physical & Chemical Properties**Appearance**

Physical state Liquid

Color Light yellow

Odor Mild

Odor threshold Not available.

pH (concentrated product) 12.1

pH in aqueous solution 11.3 (5% SOL.)

Vapor pressure 18 mm Hg

Vapor pressure temp. 70 °F (21 °C)

Vapor density < 1 (Air = 1)

Boiling point 220 °F (104 °C)

Melting point/Freezing point < -30 °F (< -34 °C)

Solubility (water)	100 %
Specific gravity (70°F, 21°C)	1.32
Flash point	> 213 °F (> 101 °C) P-M(CC)
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	Not available.
Evaporation rate	< 1 (Ether = 1)
Viscosity	18 cps
Viscosity temperature	70 °F (21 °C)
Percent volatile	0 (Estimated)
Pour point	< 0 °F (< -18 °C)

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Conditions to avoid	Not available.
Incompatible materials	Acids. Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides. Nitrogen oxides (NOx). Sulphur oxides. Oxides of phosphorus.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

Product	Species	Test Results
FOODPRO ST8072 (CAS Mixture)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 5000 mg/kg, (Calculated according to GHS additivity formula)
<i>Oral</i>		
LD50	Rat	2740 mg/kg, (Calculated according to GHS additivity formula) 270 mg/kg, (Calculated according to GHS additivity formula (Category 3))
Components	Species	Test Results
Boric acid,disodium salt,pentahydrate (CAS 12179-04-3)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg
<i>Oral</i>		
LD50	Rat	2550 mg/kg
Sodium hydroxide (CAS 1310-73-2)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	1350 mg/kg
<i>Oral</i>		
LD50	Rabbit	> 500 mg/kg
Sodium nitrite (CAS 7632-00-0)		
Acute		
<i>Oral</i>		
LD50	Rat	180 mg/kg

Components	Species	Test Results
Sodium silicate (CAS 1344-09-8)		
Acute		
<i>Dermal</i>		
LD50	Rat	> 5000 mg/kg
<i>Oral</i>		
LD50	Rat	1153 mg/kg

Carcinogenicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

12. Ecological Information

Ecotoxicity

Product	Species	Test Results
FOODPRO ST8072 (CAS Mixture)		
<i>Acute</i>		
LC50	Fathead Minnow	1150 mg/l, 96 Hour, (Calculated data)
NOEL	Fathead Minnow	690 mg/l, 96 Hour, (Calculated data)
Crustacea	Daphnia magna	600 mg/l, 48 Hour, (Calculated data)

Components	Species	Test Results
Sodium nitrite (CAS 7632-00-0)		
Fish	Fish	0.56 - 1.78 mg/l, 96 hour

13. Disposal Considerations

Disposal instructions Review federal, state/provincial, and local government requirements prior to disposal.

14. Transport Information

DOT

UN number	UN3287
UN proper shipping name	TOXIC LIQUID, INORGANIC, N.O.S. (SODIUM NITRITE SOLUTION), RQ
Transport hazard class(es)	
Class	6.1
Subsidiary risk	-
Packing group	III
Special precautions for user	Not available.
ERG number	151

IATA

UN number	UN3287
UN proper shipping name	TOXIC LIQUID, INORGANIC, N.O.S. (SODIUM NITRITE SOLUTION)
Transport hazard class(es)	
Class	6.1
Subsidiary risk	-
Packing group	III
Environmental hazards	No.
Special precautions for user	Not available.

IMDG

UN number	UN3287
UN proper shipping name	TOXIC LIQUID, INORGANIC, N.O.S. (SODIUM NITRITE SOLUTION)
Transport hazard class(es)	
Class	6.1
Subsidiary risk	-
Packing group	III
Environmental hazards	No.
Marine pollutant	No.

EmS Not available.
Special precautions for user Not available.

TDG

UN number UN3287
UN proper shipping name TOXIC LIQUID, INORGANIC, N.O.S. (SODIUM NITRITE SOLUTION)
Hazard class 6.1
Packing group III
ERG code 151

DOT



IATA; IMDG



TDG



15. Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Sodium nitrite (CAS 7632-00-0) 1.0 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Sodium nitrite (CAS 7632-00-0) Listed.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Sodium nitrite (CAS 7632-00-0) 1.0 % One-Time Export Notification only.

CERCLA (Superfund) reportable quantity, lbs

Sodium nitrite: 100 lbs
Sodium hydroxide: 1000 lbs

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical Yes

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

NSF Registered and/or meets USDA (according to 1998 guidelines): Registration No. – 148031
Category Code(s):
G5 Cooling and retort water treatment products
G7 Boiler, steam line treatment products – nonfood contact

State regulations

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

No ingredient listed.

US - California Proposition 65 - CRT: Listed date/Developmental toxin

No ingredient listed.

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

No ingredient listed.

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

No ingredient listed.

US - Massachusetts RTK - Substance List

Boric acid,disodium salt,pentahydrate (CAS 12179-04-3)
Sodium hydroxide (CAS 1310-73-2)
Sodium nitrite (CAS 7632-00-0)

US - New Jersey RTK - Substances: Listed substance

Boric acid,disodium salt,pentahydrate (CAS 12179-04-3) Listed.
Sodium hydroxide (CAS 1310-73-2) Listed.
Sodium nitrite (CAS 7632-00-0) Listed.

US - Pennsylvania RTK - Hazardous Substances

Boric acid,disodium salt,pentahydrate (CAS 12179-04-3) Listed.
Sodium hydroxide (CAS 1310-73-2) Listed.
Sodium nitrite (CAS 7632-00-0) Listed.

US - Rhode Island RTK

Sodium hydroxide (CAS 1310-73-2)
Sodium nitrite (CAS 7632-00-0)

16. Other Information

List of abbreviations Not available.

HMIS® ratings Health: 3*
Flammability: 1
Physical hazard: 1

NFPA ratings Health: 3
Flammability: 1
Instability: 1

This data sheet contains changes from the previous version in section(s): Ecological Information: Ecotoxicity
HazReg Data: North America

Prepared by This MSDS has been prepared by GE Water & Process Technologies Regulatory Department (1-215-355-3300).

* Trademark of General Electric Company. May be registered in one or more countries.