

## SAFETY DATA SHEET



Date Prepared : 07/08/2015

SDS No : 5422

## FORMULA 319

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** FORMULA 319  
**GENERAL USE:** Stainless Steel Passivation Solution  
**PRODUCT CODE:** 5422

**MANUFACTURER**

JOHN-HENRY Enterprises, Inc.  
 2813 Richland Ave  
 Metairie, LA 70002  
**Emergency Contact:** H. Zeller  
**Emergency Phone:** 504-888-8989

**24 HR. EMERGENCY TELEPHONE NUMBERS**

US/Canada: 800-535-5053

## 2. HAZARDS IDENTIFICATION

**GHS CLASSIFICATIONS****Health:**

Eye Irritation, Category 2A  
 Skin Irritation, Category 3

**GHS LABEL**

Causes moderate to severe irritation to eyes. Prolonged exposure can cause moderate to severe irritation to skin. Mists and spray can irritate eyes, nose, throat, and respiratory system.



Irritant

**SIGNAL WORD:** WARNING**HAZARD STATEMENTS**

H315: Causes skin irritation.  
 H320: Causes eye irritation.

**PRECAUTIONARY STATEMENTS****General:**

P102: Keep out of reach of children.  
 P103: Read label before use.

**Prevention:**

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
 2828VC61: Avoid eye contact

**Response:**

P353: Rinse skin with water [or shower].  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage:**

75990X3S: Keep only in original container. Store in a well-ventilated place. Keep container tightly closed.

**POTENTIAL HEALTH EFFECTS**

**EYES:** Severely irritating and may cause temporary blurring of vision and temporary damage

**SKIN:** Prolonged contact may cause severe skin irritation and possible burns.

**INGESTION:** Causes irritation to mouth, throat, esophagus, and gastrointestinal system .May cause gastrointestinal discomfort, including nausea, vomiting, diarrhea, etc

**INHALATION:** Mists, sprays, or vapor can be irritating to eyes and respiratory tract.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Organic Acid	45 - 50	77-92-9

### 4. FIRST AID MEASURES

**EYES:** Gently hold eyelids open and flush with water for 15 minutes or until discomfort eases. Remove contact lenses if possible. Seek medical attention if irritation persists or vision remains blurred.

**SKIN:** Remove contaminated clothing and footwear. Flush off with water. Get medical attention if irritation develops or persists.

**INGESTION:** Get immediate medical attention (call 911). Rinse mouth with water. Do not induce vomiting unless instructed to do so by poison center or physician. Give patient water and milk of magnesia or other antacid tablets unless unconscious or convulsing. Keep patient warm and comfortable. Treat for shock.

**INHALATION:** If affected by vapors, spray or mist, move to fresh air. Seek medical attention if symptoms persist or worsen.

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**EYES:** Moderate to severe irritation, including copious tearing, stinging, burning, temporary blurring of vision

**SKIN:** Prolonged or repeated contact may produce irritation, redness, edema, burning or itching, rash, etc.

**INGESTION:** Causes irritation to mouth, throat, esophagus, and GI tract. Can cause gastrointestinal discomfort, including nausea, vomiting, and diarrhea.

**INHALATION:** Spray or mists can irritate eyes, nose, throat, and respiratory tract.

### 5. FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** Not Applicable - Water based product with no flashpoint.

**EXTINGUISHING MEDIA:** Not applicable - water based product. After water has evaporated, use water (fog or spray) or chemical foam on burning solids.

**HAZARDOUS COMBUSTION PRODUCTS:** Oxides of carbon and hydrocarbon residues.

**EXPLOSION HAZARDS:** Containers can burst if exposed to flames or high temperatures.

**FIRE FIGHTING PROCEDURES:** Wear self-contained breathing apparatus when fighting chemical fires. Use water fog or spray to cool containers.

### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Wear recommended PPE. Collect spilled product for reuse or disposal. Rinse spill area with water

**LARGE SPILL:** Wear appropriate PPE. Remove uninvolved personnel from area. Stop flow. Contain spill and keep from entering sewer or surface waterways. Collect spill into suitable, properly labeled containers for use or disposal. Rinse spill area with water.

### 7. HANDLING AND STORAGE

**HANDLING:** Avoid contact with eyes and prolonged contact with skin. Avoid prolonged exposure to mists and sprays. Read and understand product label and SDS before handling any chemical. Always wear recommended personal protective equipment. Follow label cautions and instructions.

**STORAGE:** Store in original containers in well ventilated area. Keep containers closed when not in use.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Wear safety glasses or goggles and face shield when handling.

**SKIN:** Wear rubber, latex, or other chemical resistant gauntlet gloves and boots

**WORK HYGIENIC PRACTICES:** Wash thoroughly before eating, drinking, smoking, or using the facilities after handling any chemical product.

**OTHER USE PRECAUTIONS:** Working eyewash stations and safety showers should be located in or near all areas where chemicals are stored or used.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**ODOR:** mild

**APPEARANCE:** clear, colorless liquid

**pH:** 2.0 to 3.0

**Notes:** (5% in water)

**PERCENT VOLATILE:** 50 - 55% (w/w)

**FLASH POINT AND METHOD:** No flashpoint

**VAPOR PRESSURE:** Same as water (approximately)

**VAPOR DENSITY:** Same as water (approximately)

**BOILING POINT:** greater than 212 deg F

**FREEZING POINT:** less than 32 deg F (0 deg C)

**SOLUBILITY IN WATER:** Complete in all proportions.

**EVAPORATION RATE:** Same as water (approximately)

**SPECIFIC GRAVITY:** 1.25 to 1.27

**10. STABILITY AND REACTIVITY**

**REACTIVITY:** Reactive with alkaline materials.

**HAZARDOUS POLYMERIZATION:** No

**STABILITY:** Stable under recommended storage conditions

**POSSIBILITY OF HAZARDOUS REACTIONS:** Reacts with concentrated alkalis (generating heat and steam) and with concentrated oxidizing agents. Severity of reactions is concentration dependent.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon and hydrocarbon residues

**INCOMPATIBLE MATERIALS:** Strong alkalis (bases), chlorine bleach, oxidizing and reducing agents

**11. TOXICOLOGICAL INFORMATION****ACUTE**

**NOTES:** No toxicity data available for product

**EYE EFFECTS:** Severe irritation, pains, burns, temporary loss of vision.

**SKIN EFFECTS:** Prolonged or repeated exposure can cause moderate to severe irritation. dermatitis, rash, sensitization.

**12. ECOLOGICAL INFORMATION**

**AQUATIC TOXICITY (ACUTE):** Daphnia magna - 1535 mg/l (24 hr)

**48-HOUR EC<sub>50</sub>:** 440 mg/l (leuciscus idus melanolus)

**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** Unused or undiluted product constitutes a hazardous waste. Follow all appropriate local, state, and Federal disposal regulations. Collect and neutralize spent solutions and discharge to a waste water treatment facility.

**FOR LARGE SPILLS:** See Section 6

**EMPTY CONTAINER:** Triple rinse container thoroughly with water and recycle.

**RCRA HAZARD CLASS:** D002 - Corrosive (pH less than 2.5)

**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** NOT REGULATED

**VESSEL (IMO/IMDG)**

**SHIPPING NAME:** NOT REGULATED

**15. REGULATORY INFORMATION**

## UNITED STATES

## SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Acute health hazard (eye and skin irritation)

FIRE: No PRESSURE GENERATING: No REACTIVITY: No ACUTE: Yes CHRONIC: No

## TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Organic Acid	77-92-9

**CALIFORNIA PROPOSITION 65:** Contains no substances known to the State of California to cause cancer, birth defects, or reproductive harm.

## 16. OTHER INFORMATION

REASON FOR ISSUE: Convert to GHS format

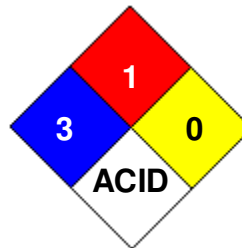
APPROVED BY: H. Zeller

PREPARED BY: CSCC Date Prepared: 07/08/2015

## HMIS RATING

HEALTH	<input type="checkbox"/>	3
FLAMMABILITY	<input type="checkbox"/>	1
PHYSICAL HAZARD	<input type="checkbox"/>	0
PERSONAL PROTECTION	<input checked="" type="checkbox"/>	X

## NFPA CODES



**GENERAL STATEMENTS:** Amounts specified herein (other than for regulatory purposes) are typical and do not represent a specification. Unspecified or unlisted components are proprietary, do not present a hazard at levels present, are not hazardous, and/or are present at levels below reportable limits. Exact percentage values for all components are proprietary in accordance with 29 CFR 1910.1200(i)

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