

## SAFETY DATA SHEET



Date Prepared : 1/18/2015

SDS No : 5412

## PASSIVE 8LD

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** PASSIVE 8LD**GENERAL USE:** Stainless Steel Passivation Solution**PRODUCT CODE:** 5412**MANUFACTURER**

John-Henry Enterprises, Inc.

2813 Richland Ave.

Metairie, LA 70002

**Emergency Contact:** Henry Zeller**Emergency Phone:** 504-888-8989**24 HR. EMERGENCY TELEPHONE NUMBERS**

US/Canada 800-535-5053

## 2. HAZARDS IDENTIFICATION

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

Eye Corrosion, Category 1

Skin Corrosion, Category 1

**Physical:**

Oxidizing Liquids, Category 3

**GHS LABEL**

CORROSIVE. Can cause burns and permanent damage to eyes and skin. Fumes, mists, and spray are highly irritating to eyes, nose, throat, and respiratory tract. Reacts with metals and releases hydrogen, a flammable gas.



Corrosive

**SIGNAL WORD:** DANGER**HAZARD STATEMENTS**

8890RINB: Corrosive to metals. Harmful if swallowed. Causes severe skin burns and eye damage. May cause respiratory irritation.

H318: Causes serious eye damage.

**PRECAUTIONARY STATEMENTS****Prevention:**

P102: Keep out of reach of children.

P262: Do not get in eyes, on skin, or on clothing.

P220: Keep/Store away from clothing/.../combustible materials.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P264: Wash thoroughly after handling.

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

P202: Do not handle until all safety precautions have been read and understood.

P306+P360: IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

P304+P341: IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

6178CDBW: P403+P233+P234: Store in a well-ventilated place. Keep container tightly closed. Keep only in original container.

### EMERGENCY OVERVIEW

**IMMEDIATE CONCERNS:** Causes severe irritation and burns to eyes, leading to partial or complete loss of vision. Strongly irritating to skin and may cause burns. Sprays and mists can severely irritate eyes and cause irritation to nose, throat, and respiratory system.

### POTENTIAL HEALTH EFFECTS

**EYES:** Corrosive to the eyes and may cause severe damage including blindness.

**SKIN:** Contact causes severe irritation and burns. Development of burns may be delayed for several days.

**INGESTION:** Causes severe irritation, burns to mouth, throat, esophagus, and stomach, and destruction of exposed tissues. May be fatal if swallowed.

**INHALATION:** Fumes, mists, and vapors may cause moderate to severe irritation to nose, throat, and respiratory system.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Nitric Acid	20 - 25	7697-37-2
Hydrofluoric Acid	~ 5	7664-39-3

## 4. FIRST AID MEASURES

**EYES:** Gently hold eyelids open and immediately flush eyes with water for at least 15 minutes or until pain eases. Remove contact lenses if possible. Cover eyes loosely with sterile dressing and SEEK IMMEDIATE MEDICAL ATTENTION.

**SKIN:** Remove contaminated clothing and footwear. Flush off with running water. Treat exposed area with a cold solution of 1% benzethonium chloride for at least thirty minutes. Seek medical attention if symptoms persist or worsen.

**INGESTION:** Get immediate medical attention (Call 911). Give water or milk unless unconscious or convulsing. Keep patient calm, warm, and quiet. Do not induce vomiting unless instructed to do so by poison control center or physician.

**INHALATION:** Move to fresh air if affected by spray, mists, or fumes. Seek medical attention if symptoms persist.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**EYES:** Severe irritation or pain, blurring or loss of vision. burns to or around eyes.

**SKIN:** Can cause moderate to severe irritation and burns. May cause delayed burns and ulcerations.

**INGESTION:** Harmful or fatal if swallowed. Can cause nausea, vomiting, diarrhea, gastrointestinal distress. Can cause burns to lips, mouth, esophagus, and stomach. Can cause destruction of exposed tissues.

**INHALATION:** No vapor hazard. Mists and spray can cause sneezing, coughing, and irritation to nose, throat, and respiratory system.

**NOTES TO PHYSICIAN:** Provide general supportive measures and treat symptomatically. Glycerine may be applied to skin burns. Skin burns should be treated with iced 1% benzethonium chloride solution for at least 30 minutes.

## 5. FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** NA = Not Applicable

**GENERAL HAZARD:** Product is an oxidizer and may accelerate combustion of burning materials

**EXTINGUISHING MEDIA:** Water based material

## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Contain and absorb spill with sand, clay or other inorganic absorbent. Rinse spill area with water. Dispose of contaminated absorbant material properly.

**LARGE SPILL:** Wear appropriate PPE. Remove unnecessary personnel from area. Ventilate the area. Stop flow and contain spilled material. Prevent it from reaching sewer, drains, ditches, or surface waterways. Collect spilled material and store in suitable, properly labeled containers for disposal or reuse. Rinse spill area thoroughly with water or dilute alkaline solution.

### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** Avoid release of product into sewer, drains, ditches, or surface waterways.

## 7. HANDLING AND STORAGE

**HANDLING:** Read and understand product label and SDS before handling any chemical. Always wear recommended Personal Protective Equipment. Only use in well ventilated areas. Follow label instructions and cautions.

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

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Nitric Acid	TWA	2	5	2	5.2	NL	NL
	STEL			4	10	NL	NL
Hydrofluoric Acid	TWA	3		0.5			

**ENGINEERING CONTROLS:** Maintain sufficient ventilation in storage and use areas to prevent the accumulation of product vapors, spray, or mist. Provide local exhaust for enclosed areas.

### PERSONAL PROTECTIVE EQUIPMENT

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

**SKIN:** Wear acid resistant clothing and impermeable gloves and boots when using product.

**RESPIRATORY:** Use with adequate ventilation. Wear a NIOSH approved acid absorbing respirator in areas where mists vapors are excessive or exceed exposure limits.

**PROTECTIVE CLOTHING:** Wear synthetic apron and boots. Wear rubber, neoprene, or other impermeable gauntlet type gloves.

**WORK HYGIENIC PRACTICES:** Do not smoke, eat, or drink while handling this product. After using product, wash thoroughly before eating, drinking, or using the facilities.

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** Pungent, acidic

**APPEARANCE:** Colorless, clear

**pH:** Less than 2 (as made)

**PERCENT VOLATILE:** Not determined

**FLASH POINT AND METHOD:** N/A

**FLAMMABLE LIMITS:** not applicable

**AUTOIGNITION TEMPERATURE:** N/A

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

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

**BOILING POINT:** not determined - above 210 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:** 1.1 to 1.120

**VISCOSITY:** same as water (approximately)

## 10. STABILITY AND REACTIVITY

**STABLE:** Yes

**HAZARDOUS POLYMERIZATION:** No

**POSSIBILITY OF HAZARDOUS REACTIONS:** Reacts with concentrated alkalis, metals, reducing agents, and organic materials.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Acidic nitrogen oxides and hydrogen fluoride.

**INCOMPATIBLE MATERIALS:** Strong alkalis, metals (releases hydrogen, a flammable gas), reducing agents. Avoid contact of concentrated product with combustible organic materials (paper, wood, etc.)

## 11. TOXICOLOGICAL INFORMATION

**EYE EFFECTS:** Severe irritation, pain, and burns. May cause permanent loss of vision.

**SKIN EFFECTS:** Severe irritation and burns.

**CARCINOGENICITY**

**Notes:** None of the ingredients are known to be human carcinogens.

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** No data

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Unused product would be considered a hazardous waste. Follow appropriate local, state, and federal regulations

**FOR LARGE SPILLS:** Contain spill and keep from entering sewers, ditches, waterways, etc. Collect spilled material and store in properly labeled containers for re-use or disposal. Thoroughly wash spill area with water. Collect rinse water and neutralize before discharging.

**PRODUCT DISPOSAL:** For small quantities: Dilute with water, neutralize, and discharge to waste water treatment facility. Large quantities: Store in appropriate containers for disposal according to regulations.

**EMPTY CONTAINER:** Empty containers may contain product residues. Rinse thoroughly with a dilute alkaline solution. Recycle cleaned, used containers.

**RCRA/EPA WASTE INFORMATION:** Unused or undiluted material would constitute an RCRA hazardous waste due to pH of 2.0 or less.

**RCRA HAZARD CLASS:** D002 - Corrosive

## 14. TRANSPORT INFORMATION

### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Corrosive, liquid, acidic, inorganic, n.o.s. (contains nitric acid and hydrofluoric acid), 8, UN 3462, II

**TECHNICAL NAME:** Corrosive, liquid, acidic, inorganic, n.o.s. (contains nitric acid and hydrofluoric acid)

**PRIMARY HAZARD CLASS/DIVISION:** 8

**UN/NA NUMBER:** UN 3462

**PACKING GROUP:** II

**REPORTABLE QUANTITY (RQ) UNDER CERCLA:** 1885 pounds

**PLACARDS:** Corrosive

**LABEL:** CORROSIVE

### VESSEL (IMO/IMDG)

**SHIPPING NAME:** Nitric Acid Solution (contains Hydrofluoric Acid)

**TECHNICAL NAME:** Nitric Acid Solution (contains Hydrofluoric Acid)

**UN/NA NUMBER:** UN 2031

**PRIMARY HAZARD CLASS/DIVISION:** 8

**PACKING GROUP:** II

**PLACARDS:** Corrosive

**LABEL:** Corrosive

## 15. REGULATORY INFORMATION

### UNITED STATES

#### DOT LABEL SYMBOL AND HAZARD CLASSIFICATION



Corrosive

Corrosive to eyes and skin. Corrosive to metals. Mists and spray can irritate eyes, nose, throat, and respiratory system.

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

**311/312 HAZARD CATEGORIES:** Corrosive, Immediate (Acute) Health Hazard, Chronic Health Hazard

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

**SECTION 312 THRESHOLD PLANNING QUANTITY (40 CFR370):** 1885 pounds

**313 REPORTABLE INGREDIENTS:** Nitric acid, hydrogen fluoride (present as Hydrofluoric Acid)

**EPCRA SECTION 313 SUPPLIER NOTIFICATION**

Chemical Name	Wt.%	CAS
Nitric Acid	20 - 25	7697-37-2
Hydrofluoric Acid	~ 5	7664-39-3

**CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT)**

Chemical Name	Wt.%	CERCLA RQ
Nitric Acid	20 - 25	1,000
Hydrofluoric Acid	~ 5	100

**CERCLA RQ:** 1885 pounds (based on hydrogen fluoride content)

**REPORTABLE SPILL QUANTITY:** 1885 pounds

**EPA**

**EPA RQ INGREDIENT:** Hydrogen Fluoride (present as hydrofluoric acid)

**EPA RQ PRODUCT:** 1885 pounds (based on hydrogen fluoride content)

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

Chemical Name	CAS
Nitric Acid	7697-37-2
Hydrofluoric Acid	7664-39-3

**TSCA STATUS:** All ingredients are included on the TSCA Inventory or are exempt.

**CLEAN AIR ACT**

Chemical Name	Wt.%	CAS
Nitric Acid	20 - 25	7697-37-2
Hydrofluoric Acid	~ 5	7664-39-3

**CALIFORNIA PROPOSITION 65:** This product contains no listed substances known to the State of California to cause cancer or birth defects or other reproductive harm at levels which would require a warning under the statute.

**RCRA STATUS:** RCRA Hazardous Waste (D002 Corrosive)

**16. OTHER INFORMATION**

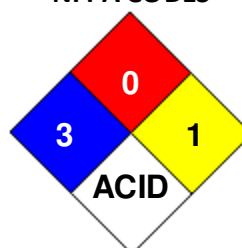
**REASON FOR ISSUE:** Convert to GHS format

**APPROVED BY:** H. Zeller

**PREPARED BY:** CSCC **Date Prepared:** 1/18/2015

**HMIS RATING**

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

**NFPA CODES**

**GENERAL STATEMENTS:** Amounts specified herein (other than for regulatory purposes) are typical and do not represent a

specification. Remaining components are proprietary, do not present a hazard at levels present or are not hazardous, and/or are present at levels below reportable limits. Exact percentage values for components are proprietary in accordance with 29 CFR 1910.1200(i)

**MANUFACTURER DISCLAIMER:** To the best of our knowledge, the information contained herein is accurate. However, no liability whatsoever is assumed for its accuracy and/or completeness. Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Certain hazards are described herein, but no guarantee is made that these are the only hazards associated with the product that exist.