

SAFETY DATA SHEET



Date Prepared : 03/09/2016
 SDS No : 5412
 Date Revised : 02/01/2017
 Revision No : 2

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: H. 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:

Corrosive to Metals, Category 2

GHS LABEL

CORROSIVE: Causes severe irritation and can cause burns and permanent damage to eyes. Causes moderate to severe irritation and possibly burns to skin. Burns may develop after exposure. Mists and spray can irritate eyes, nose, throat, and respiratory system. Ingestion can cause severe irritation, burns and tissue damage to mouth, throat, esophagus, and stomach. May be harmful or fatal if swallowed.



Severe



Health hazard

Irritant/Corrosive

SIGNAL WORD: DANGER**HAZARD STATEMENTS**

H318: Causes serious eye damage.
 H314: Causes severe skin burns and eye damage.
 H301: Toxic if swallowed.
 H335: May cause respiratory irritation.
 H290: May be corrosive to metals.

PRECAUTIONARY STATEMENTS**General:**

P102: Keep out of reach of children.
 P103: Read label before use.
 P202: Do not handle until all safety precautions have been read and understood.

Prevention:

P262: Do not get in eyes, on skin, or on clothing.
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
 P220: Keep away from clothing and other combustible materials.

P281: Use personal protective equipment as required.

P264: Wash ... thoroughly after handling.

Response:

P363: Wash contaminated clothing before reuse.

6156HX6P: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (See First Aid Section for more details)

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

0505GPKQ: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. (See First Aid Section for more detailed information).

2647OCLL: IF SWALLOWED: Immediately call a POISON CENTER , doctor, or other qualified medical personnel. (See First Aid Section for more information) Rinse mouth. Do NOT induce vomiting.

Storage:

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

POTENTIAL HEALTH EFFECTS

EYES: Corrosive to the eyes and may cause severe damage including tissue destruction and/or blindness.

SKIN: Contact causes severe skin irritation and possible burns. Development of burns and ulcers may be delayed.

SKIN ABSORPTION: Skin absorption can damage target organs and may be fatal.

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

INHALATION: Mists or sprays can be moderately to severely irritating to eyes and respiratory tract.

TARGET ORGAN STATEMENT: Lungs, mucous membranes, respiratory tract, skin, eyes, and teeth

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Nitric Acid	20 - 25	7697-37-2
Hydrofluoric Acid	3 - 4	7664-39-3
Other ingredients are not hazardous or are present at levels that do not present a significant hazard.	> 70	000-00-1

4. FIRST AID MEASURES

EYES: Treat eye contact and a medical emergency (call 911). 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 copious amounts of running water. Treat exposed areas with a cold solution containing 1% benzethonium chloride for at least thirty minutes. Seek medical attention if irritation persists, worsens, or if burns and ulcers develop.

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. Give oxygen if breathing is difficult and seek prompt medical attention.

NOTES TO PHYSICIAN: Treat symptomatically. Glycerine can be applied to skin burns to relieve pain and stop further damage. Observe for toxic effects resulting from inhalation and/or skin contact and treat appropriately. This product contains acidic fluoride compounds. Take appropriate protective and preventive measures.

ADDITIONAL INFORMATION: First aider protection: Wear safety glasses, impermeable gloves, and, if necessary, an acid absorbing respirator or SCBA when rescuing and treating victims. Mouth-to-mouth resuscitation may be dangerous. Take appropriate protective measures.

5. FIRE FIGHTING MEASURES

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

GENERAL HAZARD: Product is a moderate oxidizer. Avoid exposure of concentrated product to organic materials. May accelerate combustion of burning materials.

EXTINGUISHING MEDIA: Water

HAZARDOUS COMBUSTION PRODUCTS: Toxic acidic fumes

EXPLOSION HAZARDS: Containers can burst if exposed to flames or high temperatures releasing acidic, oxidizing steam and mists.

FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus when fighting chemical fires. Use water fog or spray to cool containers and/or disperse product vapors.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Wear recommended PPE. Ventilate the area and remove uninvolved personnel. Contain and absorb spilled material (do not use organic absorbents such as paper. Use clay or other inorganic absorbents. Dispose of contaminated absorbant properly. Wash 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. Do not absorb spilled material with organic absorbents (i.e.; paper). Rinse spill area with water.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Do not discharge to or allow to enter surface waterways, drains, or public sewers

7. HANDLING AND STORAGE

HANDLING: Avoid contact with eyes and skin. Avoid exposure to mists or 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 away from oxidizable organic materials (paper, fabric), concentrated alkalis, ammonia, and reducing agents. Keep containers closed when not in use. Store out of direct sunlight and away from sources of heat.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

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

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

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety glasses or goggles and face shield (recommended) when handling.

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

RESPIRATORY: Use with adequate ventilation. Wear a NIOSH approved acid absorbing, air purifying respirator where fumes, mists or spray are excessive or exceed exposure limits.

PROTECTIVE CLOTHING: Wear chemically resistant full length apron and impermeable boots when handling.

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: acidic

APPEARANCE: clear, colorless liquid

pH: < 2

Notes: (5% in water)

PERCENT VOLATILE: 78 - 82% (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.

SPECIFIC GRAVITY: 1.105 to 1.115

10. STABILITY AND REACTIVITY

REACTIVITY: Reactive with alkaline materials. Reacts with metals. Reacts (oxidizes) with organic materials.

HAZARDOUS POLYMERIZATION: No

CONDITIONS TO AVOID: Avoid exposure to sources of heat

POSSIBILITY OF HAZARDOUS REACTIONS: Reacts with metals such as aluminum or zinc (releases hydrogen, a flammable gas). Reacts vigorously with concentrated acids (generating heat and steam). Reacts with organic materials and may cause or accelerate combustion.

HAZARDOUS DECOMPOSITION PRODUCTS: Acidic fumes, nitrogen oxides

INCOMPATIBLE MATERIALS: Strong alkalies (bases), chlorine bleach, oxidizing and reducing agents, metals such as zinc or magnesium (releases hydrogen gas), organic materials (i.e.; paper, cloth, etc.)

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

NOTES: No toxicity data available for product

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: No data

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: UN1760, Corrosive Liquid, n.o.s. (contains nitric acid and hydrofluoric acid), 8 (6.1), II

REPORTABLE QUANTITY (RQ) UNDER CERCLA: 5000 lbs (as supplied)

VESSEL (IMO/IMDG)

SHIPPING NAME: UN2031, NITRIC ACID SOLUTION (contains less than 70% nitric acid), 8, PG II

15. REGULATORY INFORMATION

UNITED STATES

DOT LABEL SYMBOL AND HAZARD CLASSIFICATION



Corrosive

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Acute health hazard (eye and skin irritation/corrosion), Reactivity, fire hazard

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

313 REPORTABLE INGREDIENTS: Nitric acid

EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt.%	CAS
Nitric Acid	20 - 25	7697-37-2
Hydrofluoric Acid	3 - 4	7664-39-3

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: Nitric acid

THRESHOLD QUANTITY: 5000 bs (as

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

Chemical Name	Wt.%	CERCLA RQ
Nitric Acid	20 - 25	1,000
Hydrofluoric Acid	3 - 4	100

CERCLA RQ: 5000 lbs (as supplied)

EPA

EPA RQ INGREDIENT: Nitric acid

EPA RQ PRODUCT: 5000 lbs (as supplied)

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	3 - 4	7664-39-3

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

CLEAN WATER ACT: CWA 311: Nitric acid

16. OTHER INFORMATION

REASON FOR ISSUE: Revisions to SDS

APPROVED BY: H. Zeller

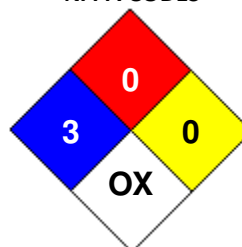
PREPARED BY: CSCC **Date Revised:** 02/01/2017

REVISION SUMMARY: This SDS replaces the 01/31/2017 SDS. Revised: **Section 4:** SIGNS AND SYMPTOMS OF OVEREXPOSURE (INGESTION, INHALATION, SKIN, SKIN ABSORPTION). **Section 16:** HMIS RATING - PERSONAL PROTECTION.

HMIS RATING

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

NFPA CODES



GENERAL STATEMENTS: Amounts given 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)

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 or physical 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 material that exist.