

## SAFETY DATA SHEET



Date Issued : 05/04/2015  
 SDS No : Brute Strength  
 Date Revised : 03/01/2020  
 Revision No : 3

## BRUTE STRENGTH

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** BRUTE STRENGTH  
**GENERAL USE:** Acidic Floor Cleaner Concentrate  
**PRODUCT CODE:** 5404

**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  
 Respiratory Tract Irritation, Category 2

**Environmental:**

Acute Hazards to the Aquatic Environment

**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



Irritant

Irritant/Corrosive

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

H314: Causes severe skin burns and eye damage.  
 H290: May be corrosive to metals.  
 H301: Toxic if swallowed.  
 H333: May be harmful if inhaled.

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

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

**Prevention:**

P262: Do not get in eyes, on skin, or on clothing.  
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P285: In case of inadequate ventilation wear respiratory protection.  
 P270: Do not eat, drink or smoke when using this product.  
 P264: Wash ... thoroughly after handling.

**Response:**

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).

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)

**Storage:**

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

**EMERGENCY OVERVIEW**

**IMMEDIATE CONCERNS:** Causes severe irritation and immediate and delayed burns to skin. Causes severe irritation and damage to eyes. Mists and vapors can cause irritation to eyes, nose, and throat. Ingestion can damage mouth, throat, and other tissues and may be fatal.

**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.

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

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

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Wt.%	CAS
Hydrofluoric Acid	< 7	7664-39-3
Phosphoric Acid	< 15	7664-38-2
Glycol ether	< 3	Proprietary
Hydrochloric Acid	< 8	7647-01-0
Other ingredients are not hazardous or are present at levels that do not present a significant hazard.	> 50	mixture

**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 or milk 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.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

**EYES:** Severe irritation or pain, blurring and loss of vision, burns and/or permanent damage.

**SKIN:** Causes moderate to severe irritation and burns. Development of burns and ulcers may be delayed.

**INGESTION:** Harmful or fatal if swallowed. Can cause irritation, gastric upset, burns and damage (corrosion) to mouth, throat, esophagus and gastrointestinal tract.

**INHALATION:** Spray or mists can severely irritate eyes, nose, throat, and respiratory tract causing coughing, sneezing, difficulty breathing, etc.

**NOTES TO PHYSICIAN:** This product contains hydrofluoric acid. Take appropriate protective and preventive measures.

**5. FIRE FIGHTING MEASURES**

**FLAMMABLE CLASS:** Not Applicable. Flash point greater than 200 deg F.

**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, and acidic fumes.

**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 and knock down acidic vapors.

**6. ACCIDENTAL RELEASE MEASURES**

**SMALL SPILL:** Wear recommended PPE. Ventilate the area and remove uninvolved personnel. Contain and absorb spilled material. Dispose of contaminated absorbant properly. Wash spill area with water.

**LARGE SPILL:** Wear appropriate PPE. Ventilate the area and 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.

#### ENVIRONMENTAL PRECAUTIONS

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

### 7. HANDLING AND STORAGE

**HANDLING:** Read and understand product label and SDS before handling any chemical. Use in well ventilated areas. Always wear recommended personal protective equipment. Follow label instructions.

**STORAGE:** Store in original containers in well ventilated area away from strong alkalis or oxidizing materials. Keep containers tightly closed when not in use.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
EXPOSURE LIMITS				
Chemical Name	Type		ppm	mg/m <sup>3</sup>
Hydrofluoric Acid	OSHA PEL	TWA	3	
	ACGIH TLV	TWA	0.5	
Phosphoric Acid	OSHA PEL	TWA		1
	ACGIH TLV	TWA		1
		STEL		
Glycol ether	OSHA PEL	TWA	50	240
	ACGIH TLV	TWA	20	97
Hydrochloric Acid	OSHA PEL	TWA	5 (ceiling)	
	ACGIH TLV	TWA	2 (ceiling)	

**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:** Sharp, pungent, acidic

**APPEARANCE:** clear, colorless liquid

**pH:** < 2.0 (5%)

**PERCENT VOLATILE:** 80 - 85% (w/w)

**FLASH POINT AND METHOD:** > (200°F) TCC

**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:** 1.03 to 1.050

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

**(VOC):** < 2 percent (w/w)

## 10. STABILITY AND REACTIVITY

**REACTIVITY:** Yes

**HAZARDOUS POLYMERIZATION:** No

**POSSIBILITY OF HAZARDOUS REACTIONS:** Reacts with metals (releases hydrogen, a flammable gas). Reacts vigorously with concentrated alkalis to generate acidic steam.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon and hydrocarbon residues, acidic fumes

**INCOMPATIBLE MATERIALS:** Strong alkalis (bases), chlorine bleach, oxidizing and reducing agents, metals such as iron (causes decomposition) and zinc or magnesium (releases hydrogen gas)

## 11. TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY**

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

**CARCINOGENICITY**

Chemical Name	General Toxicity
Glycol ether	Confirmed animal carcinogen with unknown relevance to humans - Group A3

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** No data

**COMMENTS:** Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic systems and organisms.

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Unused or undiluted product constitutes a hazardous waste. Follow all appropriate local, state, and Federal disposal regulations. Surfactants and other organic components are biodegradable. 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/EPA WASTE INFORMATION:** Unused or undiluted product would constitute an RCRA regulated hazardous waste due to corrosivity (CORROSIVE WASTE - D002, pH equal to or less than 2.0)

## 14. TRANSPORT INFORMATION

**DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** UN1760, Corrosive Liquid, N.O.S. (contains phosphoric acid), 8, II

**REPORTABLE QUANTITY (RQ) UNDER CERCLA:** 1785 lbs (as supplied)

**PLACARDS:** Corrosive

**LABEL:** Corrosive

**VESSEL (IMO/IMDG)**

**SHIPPING NAME:** UN1805, PHOSPHORIC ACID, SOLUTION, N.O.S (contains hydrofluoric acid), 8, II

**PLACARDS:** Corrosive

**LABEL:** Corrosive

## 15. REGULATORY INFORMATION

**UNITED STATES**

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

**311/312 HEALTH HAZARDS:** Acute health hazard (eye and skin irritation/corrosion), Reactivity

**SECTION 312 THRESHOLD PLANNING QUANTITY (40 CFR370):** 1785 lbs (as supplied)

**EPCRA SECTION 313 SUPPLIER NOTIFICATION**

Chemical Name	Wt.%	CAS
Hydrofluoric Acid	< 7	7664-39-3
Hydrochloric Acid	< 8	7647-01-0

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

Chemical Name	Wt.%	CERCLA RQ
Hydrofluoric Acid	< 7	100
Phosphoric Acid	< 15	5,000
Hydrochloric Acid	< 8	5,000

**CERCLA RQ:** 1785 lbs (as supplied)

**EPA**

**EPA RQ INGREDIENT:** Hydrofluoric Acid

**EPA RQ PRODUCT:** 1785 lbs (as supplied)

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

Chemical Name	CAS
Hydrofluoric Acid	7664-39-3
Phosphoric Acid	7664-38-2
Glycol ether	Proprietary
Hydrochloric Acid	7647-01-0

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

**CLEAN AIR ACT**

Chemical Name	Wt.%	CAS
Hydrofluoric Acid	< 7	7664-39-3
Hydrochloric Acid	< 8	7647-01-0

**CALIFORNIA PROPOSITION 65:** Contains no substances known to the State of California to cause cancer.

**16. OTHER INFORMATION**

**APPROVED BY:** H. Zeller

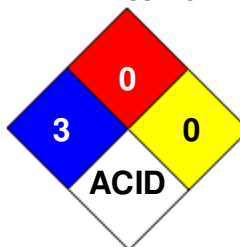
**PREPARED BY:** CSCC **Date Revised:** 03/01/2020

**REVISION SUMMARY:** This SDS replaces the 01/18/2017 SDS. Revised: **Section 1:** REASON FOR ISSUE.

**HMIS RATING**

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

**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)

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guarantee is made that these are the only hazards associated with the material that exist.