

SAFETY DATA SHEET



Date Prepared : 11/05/2015
SDS No : 7664939-40
Date Revised : 02/04/2017
Revision No : 1

Sulfuric Acid, 40%

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Sulfuric Acid, 40%
PRODUCT CODE: 7664939-40

MANUFACTURER

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

2. HAZARDS IDENTIFICATION**GHS CLASSIFICATIONS****Health:**

Eye Corrosion, Category 1
Skin Corrosion, Category 1A

Physical:

Corrosive to Metals, Category 1

GHS LABEL

Severe
Irritant/Corrosive

SIGNAL WORD: DANGER**HAZARD STATEMENTS**

H290: May be corrosive to metals.
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.

PRECAUTIONARY STATEMENTS**General:**

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

Prevention:

9913FBB7: Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling.
P363: Wash contaminated clothing before reuse.

Response:

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. 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 cool, well-ventilated space. Keep container tightly closed.

Disposal:

P501: Dispose of contents/container to ...

POTENTIAL HEALTH EFFECTS

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

SKIN: Corrosive, causes skin burns and severe irritation

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

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Sulfuric Acid	~ 40	7664-93-9

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. Seek medical attention for burns or if irritation persists or worsens.

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.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Severe irritation or pain, tearing, redness, blurring and/or temporary or permanent loss of vision. May cause burns to and around eyes.

SKIN: Severe irritation and burns.

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: Treat symptomatically. Treat for thermal burns. Take precautions to prevent exposure to emergency and medical personnel to material.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: Not Applicable

EXTINGUISHING MEDIA: Not applicable - not combustible

HAZARDOUS COMBUSTION PRODUCTS: Boiling material will produce acid 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/or disperse product vapors.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Wear recommended PPE. 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: 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 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 ³
Sulfuric Acid	OSHA PEL	TWA	1
	ACGIH TLV	TWA	0.2
		STEL	3

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 acid resistant outer garments, impermeable boots and gloves when handling.

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.

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: faint, acidic

APPEARANCE: clear, colorless liquid

pH: < 1.5

Notes: 1% in deionized water

PERCENT VOLATILE: No data

FLASH POINT AND METHOD: none

VAPOR PRESSURE: < 0.1 mm Hg at (75°F)

VAPOR DENSITY: Heavier than air

BOILING POINT: ~ 115°C

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

SOLUBILITY IN WATER: Complete in all proportions.

SPECIFIC GRAVITY: 1.84

10. STABILITY AND REACTIVITY

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

HAZARDOUS POLYMERIZATION: Will not occur

STABILITY: Stable

POSSIBILITY OF HAZARDOUS REACTIONS: Reacts with metals (releases hydrogen, a flammable gas). Reacts vigorously with concentrated alkalis to generate acidic steam. Reacts with organic materials and may cause combustion.

HAZARDOUS DECOMPOSITION PRODUCTS: Sulfur oxides

INCOMPATIBLE MATERIALS: Concentrated alkalis and oxidizing agents. Organic materials and metals

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

ORAL LD₅₀: 2140 mg/kg (rat - sulfuric acid)

INHALATION LC₅₀: 510 mg/l, 2 hr (rat - sulfuric acid)

Skin corrosion/irritation: Extremely corrosive and destructive to tissues (rabbit)

Serious eye damage/irritation: Eyes - Serious damage (rabbit)

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: No data

ECOTOXICOLOGICAL INFORMATION: No data

BIOACCUMULATION/ACCUMULATION: No data

AQUATIC TOXICITY (ACUTE)

96-HOUR LC₅₀: 46 mg/l (mosquito fish)

48-HOUR EC₅₀: 29 mg/l (daphnia)

Notes: values are for undiluted sulfuric acid

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Offer surplus and non-recyclable material to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

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: UN2796, Sulfuric Acid, 8, PG II

REPORTABLE QUANTITY (RQ) UNDER CERCLA: 2500 Not regulated

VESSEL (IMO/IMDG)

TECHNICAL NAME: SULFURIC ACID

UN/NA NUMBER: UN1830

PRIMARY HAZARD CLASS/DIVISION: 8

PACKING GROUP: II

EmS: F-A,S-B

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), chronic health hazard

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

313 REPORTABLE INGREDIENTS: Sulfuric Acid

EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt. %	CAS
Sulfuric Acid	~ 40	7664-93-9

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: Section 302 (EHS) TPQ - 2500 lbs / Section 304 EHS RQ - 2500 lbs (as supplied)

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

Chemical Name	Wt. %	CERCLA RQ
Sulfuric Acid	~ 40	1,000

CERCLA RQ: 2500 lbs (as supplied)

EPA

EPA RQ INGREDIENT: Sulfuric Acid

EPA RQ PRODUCT: 2500 lbs (as supplied)

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Sulfuric Acid	7664-93-9

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

CALIFORNIA PROPOSITION 65: Contains a substances or substances known to the State of California to cause cancer

CARCINOGEN: Sulfuric Acid

16. OTHER INFORMATION

REASON FOR ISSUE: Convert to GHS format

APPROVED BY: H. Zeller

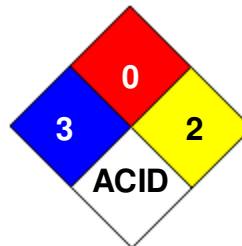
PREPARED BY: CSCC **Date Revised:** 02/04/2017

REVISION SUMMARY: This SDS replaces the 11/05/2015 SDS. Revised: **Section 4:** NOTES TO PHYSICIAN. **Section 14:** DOT (DEPARTMENT OF TRANSPORTATION) (TECHNICAL NAME, PRIMARY HAZARD CLASS/DIVISION, UN/NA NUMBER, PACKING GROUP DOT (DEPARTMENT OF TRANSPORTATION)).

HMIS RATING

HEALTH	<input type="checkbox"/>	3
FLAMMABILITY	<input type="checkbox"/>	0
PHYSICAL HAZARD	<input type="checkbox"/>	2
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)

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