



## **SECTION 1: IDENTIFICATION**

PRODUCT IDENTIFIER: Sulfuric Acid 1.0N

OTHER MEANS OF IDENTIFICATION: None

RECOMMENDED USE: Laboratory chemical

RESTRICTIONS ON USE: None

SUPPLIER IDENTIFIER: Di-Corp Testing Equipment

Unit 2, 4816-35B St. SE

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A division of:

Di-Corp

8750-53 Ave

Edmonton, AB T6E 5G2

780-440-4923

EMERGENCY PHONE NUMBER: 780-468-4064 (24 hr)

EMERGENCY TRANSPORT NUMBER: 1-888-CANUTEC (226-8832), 613-996-6666 or \*666 on a cellular phone

## **SECTION 2: HAZARD IDENTIFICATION**

Corrosive to metals – Category 1

CLASSIFICATION: Skin Corrosion/Irritation – Category 1A

Serious Eye Damage / Eye Irritation – Category 1

LABEL SYMBOLS:

PRECAUTIONARY STATEMENTS:

T.

SIGNAL WORD: DANGER

CLASSIFICATION INFORMATION: May be corrosive to metals.

Causes severe skin burns and serious eye damage.

Prevention

Keep only in original packaging.

Do not breathe fume/mist/vapours/spray. Wash hands thoroughly after handling.

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

Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

 $\label{lem:interpolation} \textbf{IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or $(1)$ and $(1)$ are skin with water or $(1)$ and $(1)$ are skin with water or $(1)$ are skin w$ 

shower. Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately

call a POISON CENTER/doctor.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Absorb spillage to prevent material – damage.

Storage

Store locked up. Store in a corrosion resistant container.

© Di-Corp 2018 Page 1 of 5



# SAFETY DATA SHEET SULFURIC ACID 1.0N

Disposal

Dispose of contents/container in accordance with local, provincial or federal regulations.

OTHER HAZARDS: None

# **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

CHEMICAL NAME CAS NUMBER CONCENTRATION

Sulfuric acid 7664-93-9 2.5-3.0% (v/v)

## **SECTION 4: FIRST AID MEASURES**

SKIN CONTACT: Immediately flush with copious amounts of running water while removing contaminated

clothing. Continue flushing until irritation subsides. If irritation persists, or burns develop,

obtain medical attention.

EYE CONTACT: Immediately flush with gently flowing warm water for 15 minutes holding eyelids open.

Remove contact lens, if present. Neutral saline may be used as soon as it is available. Obtain

medical attention when flushing period is complete and no further irritation is felt.

INGESTION: Do not induce vomiting. If victim is conscious and alert, rinse mouth with water. Obtain

immediate medical attention. Never give anything by mouth if patient is unconscious, rapidly

losing consciousness or convulsing.

INHALATION: Move to fresh air. Apply oxygen or artificial respiration if required. Obtain immediate

medical attention.

MOST IMPORTANT SYMPTOMS / EFFECTS: May cause burns by all exposure routes. Product is a corrosive material.

IMMEDIATE MEDICAL ATTENTION / Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or

SPECIAL TREATMENT: esophagus should be investigated.

#### **SECTION 5: FIRE-FIGHTING MEASURES**

SUITABLE EXTINGUISHING MEDIA: Use media suitable for surrounding fire.

UNSUITABLE EXTINGUISHING MEDIA: None known.

SPECIFIC FIRE HAZARDS: May give off toxic sulfur oxide fumes in a fire.

HAZARDOUS COMBUSTION PRODUCTS: Oxides of sulfur.

SPECIAL PROTECTIVE EQUIPMENT & Full protective equipment and self-contained breathing apparatus required for fire-fighting

PRECAUTIONS: personnel. Remove containers from fire area, or cool with water spray, if possible.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS, PROTECTIVE EQUIMENT AND EMERGENCY PROCEDURES

Always use suggested or required safety equipment.

### METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP

Cover spill with soda ash or lime. Soak up liquid with non-combustible absorbent material and place in suitable approved containers for disposal. Wash spill site after material pick up is complete.

## **SECTION 7: HANDLING AND STORAGE**

## PRECAUTIONS FOR SAFE HANDLING

Practice reasonable caution and personal cleanliness. Avoid skin and eye contact. Avoid ingestion. Wash thoroughly after handling. Launder contaminated clothing before reuse.

#### CONDITIONS FOR SAFE STORAGE & INCOMPATIBILITIES

Store in cool, dry place away from incompatible materials. Keep containers tightly closed when not in use. Empty containers contain residual hazardous material, and must be handled and stored as if full.

© Di-Corp 2018 Page 2 of 5





## **SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

EXPOSURE LIMITS: Sulfuric acid: ACGIH TWA = 0.2 mg/m3

ENGINEERING CONTROLS: General mechanical sufficient for normal use. Use process enclosure, local exhaust

ventilation or other engineering controls if vapours or mists are generated during use.

PERSONAL PROTECTIVE MEASURES

RESPIRATORY PROTECTION: None required for this solution. Use NIOSH approved respirator with acid gas/mist cartridges

if vapours or mists are generated.

PROTECTIVE GLOVES: Suggest rubber or latex gloves be worn.

EYE PROTECTION: Suggest chemical splash goggles. Do not wear contact lenses when working with corrosives.

OTHER PROTECTIVE EQUIPMENT (SPECIFY): Suggest the use of a chemical apron and/or chemical resistant clothing. Ensure eye-wash

station and emergency shower are available.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: Clear colourless liquid

ODOUR: Odourless

ODOUR THRESHOLD: Not determined

pH: <1.0

MELTING POINT / FREEZING POINT: <-10°C

BOILING POINT / RANGE: >100°C

FLASH POINT:

EVAPORATION RATE:

Not available

FLAMMABILITY:

Not applicable

FLAMMABILITY / EXPLOSIVE LIMITS:

Not applicable

VAPOUR PRESSURE:

Not available

VAPOUR DENSITY:

Not available

RELATIVE DENSITY: 1.1

SOLUBILITY: Miscible in water
PARTION COEFFICIENT: Not available
AUTO-IGNITION TEMPERATURE: Not available
DECOMPOSITION TEMPERATURE: Not available
VISCOSITY: Not available

## **SECTION 10: STABILITY AND REACTIVITY**

REACTIVITY: No information available

CHEMICAL STABILITY: Stable under normal conditions
POSSIBILITY OF HAZARDOUS REACTIONS: Polymerization will not occur

CONDITIONS TO AVOID: Avoid incompatible materials. Avoid excess heat.

INCOMPATIBLE MATERIALS: Metals. Powdered metals. Reducing agents. Bases. Organic materials. Water reactive

materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Reacts with metals to produce hydrogen.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

PRODUCT TOXICITY: Not available.

COMPONENT TOXICITY

COMPONENTLD50 ORALLD50 DERMALLC50 INHALATIONSulfuric Acid2140 mg/kgNot available255 mg/m³/4hr

© Di-Corp 2018 Page 3 of 5



# SAFETY DATA SHEET SULFURIC ACID 1.0N

SKIN CONTACT: Causes severe irritation. Prolonged contact may result in chemical burns. Prolonged or

repeated contact may cause dermatitis.

EYE CONTACT: Causes severe eye irritation. Without immediate first aid permanent eye damage can result.

INGESTION: Causes severe irritation and possible permanent damage to the digestive tract. May cause

systemic toxicity with acidosis. May cause perforation of the digestive tract.

INHALATION: No vapours given off at normal handling temperatures. Mists or aerosols are harmful if

inhaled. May cause severe irritation of the respiratory tract with sore throat, coughing,

shortness of breath and delayed lung edema. Aspiration may lead to pulmonary edema. May cause systemic effects. Prolonged or repeated inhalation may cause kidney and lung damage.

CARCINOGENICITY: The IARC classification of Group 1 for strong inorganic acid mists containing sulfuric acid is for

inorganic acid mists only and does not apply to sulfuric acid or sulfuric acid solutions. The ACGIH A2 carcinogenicity designation that appears with the sulfuric acid TLV refers to

specifically to sulfuric acid contained in strong inorganic acid mists.

TERATOGENICITY: No information available.

REPRODUCTIVE TOXICITY: No information available.

MUTAGENICITY: No information available.

CHRONIC TOXICITY: No information available.

TARGET ORGAN EFFECTS: No information available.

## **SECTION 12: ECOLOGICAL INFORMATION**

ECOTOXICITY: Sulfuric Acid:

LC50 (fish) = 500 mg/L/96hr

EC50 (invertebrate) = 29 mg/L/24 hr (water flea)

EC50 (algae) = Not available

PERSISTENCE AND DEGRADABILITY: Not applicable to inorganic materials.

BIOACCUMULATIVE POTENTIAL: Not available.

MOBILITY IN SOIL: Not available.

OTHER ADVERSE EFFECTS: Not available

## **SECTION 13: DISPOSAL CONSIDERATIONS**

Dispose of in accordance with federal, provincial and local regulations. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal. Triple rinse empty containers and dispose in general trash.

### **SECTION 14: TRANSPORTATION INFORMATION**

TDG: Regulated
DOT: Regulated
IATA: Regulated
IMDG: Regulated
UN NUMBER: UN2796

PROPER SHIPPING NAME: Sulfuric acid, solution

CLASS: 8
PACKING GROUP: III

IMDG HAZARDS:Not availableBULK TRANSPORT:Not applicableSPECIAL PRECAUTIONS:Not available

© Di-Corp 2018 Page 4 of 5





\*NOTE: Lab reagent size product can be shipped as a LIMITED QUANTITY.

# **SECTION 15: REGULATORY INFORMATION**

DSL: All ingredients are listed on the DSL.

WHMIS CLASS: D1A; E

TSCA: All ingredients are listed or exempt from listing.

## **SECTION 16: OTHER INFORMATION**

REVISION DATE: October 23, 2018

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© Di-Corp 2018 Page 5 of 5