

SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER: **Sulfuric Acid N/10**
OTHER MEANS OF IDENTIFICATION: Sulfuric Acid 0.1N
RECOMMENDED USE: Laboratory reagent chemical
RESTRICTIONS ON USE: None
SUPPLIER IDENTIFIER: **Di-Corp Testing Equipment**
Unit 2, 4816-35B St. SE
Calgary, Alberta
T2B 3N1
403-268-7912

A division of :
Di-Corp
8750-53 Ave
Edmonton, AB T6E 5G2
780-440-4923

EMERGENCY PHONE NUMBER: 780-468-4064

SECTION 2: HAZARD IDENTIFICATION

CLASSIFICATION: Not classified according to Part 2 of HPR.
LABEL SYMBOLS: Not applicable
SIGNAL WORD: Not applicable
HAZARD STATEMENTS: Not applicable
OTHER HAZARDS: None known.
PRECAUTIONARY STATEMENTS: Not applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
Sulfuric Acid	7664-93-9	0.28% (v/v)

SECTION 4: FIRST AID MEASURES

SKIN CONTACT: Remove contaminated clothing. Wash exposed area thoroughly with soap and water. If irritation occurs obtain medical attention.

EYE CONTACT: Immediately flush eyes with gently flowing warm water for 15 minutes. Hold eyelids apart to ensure thorough flushing. If irritation persists, obtain medical attention.

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. If breathing difficulties or distress continues, obtain medical attention.

MOST IMPORTANT SYMPTOMS / EFFECTS: Prolonged skin or eye contact may cause irritation and possibly burns.

IMMEDIATE MEDICAL ATTENTION / SPECIAL TREATMENT: For skin and eye contact prompt first aid may prevent long term injury.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Use media suitable for packaging and surrounding materials.
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 & PRECAUTIONS:	Self-contained breathing apparatus required for fire-fighting personnel. Move from fire area if possible to do so without risk.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use appropriate safety equipment. Prevent further leakage or spillage if safe to do so.

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 a cool, dry area away from incompatible materials. Keep containers tightly closed at all times.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:	Sulfuric acid: ACGIH TWA = 0.2 mg/m ³
ENGINEERING CONTROLS:	Not required for normal conditions of use. Use local exhaust ventilation, process enclosure or other engineering controls as required to maintain vapour/mist concentration below TLV's.
PERSONAL PROTECTIVE MEASURES	
RESPIRATORY PROTECTION:	Not required under normal conditions of use.
PROTECTIVE GLOVES:	Rubber gloves recommended.
EYE PROTECTION:	Safety glasses with side-shields or chemical goggles.
OTHER PROTECTIVE EQUIPMENT (SPECIFY):	Ensure eye-wash station and emergency shower are available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear colourless liquid
ODOUR:	Odourless
ODOUR THRESHOLD:	Not applicable
pH:	<1.0
MELTING POINT / FREEZING POINT:	~0°C
BOILING POINT / RANGE:	~100°C
FLASH POINT:	Not applicable
EVAPORATION RATE:	Not available
FLAMMABILITY:	Not applicable
FLAMMABILITY / EXPLOSIVE LIMITS:	Not applicable
VAPOUR PRESSURE:	Not available
VAPOUR DENSITY:	Not available

RELATIVE DENSITY:	1.0
SOLUBILITY:	Completely miscible in water
PARTION COEFFICIENT:	Not available
AUTO-IGNITION TEMPERATURE:	Not applicable
DECOMPOSITION TEMPERATURE:	Not available
VISCOSITY:	Not available

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:	Not reactive under normal conditions.
CHEMICAL STABILITY:	Stable under normal conditions
POSSIBILITY OF HAZARDOUS REACTIONS:	Polymerization will not occur
CONDITIONS TO AVOID:	Avoid incompatible materials.
INCOMPATIBLE MATERIALS:	Alkalis and water reactive materials.
HAZARDOUS DECOMPOSITION PRODUCTS:	Reacts with metals to produce hydrogen.

SECTION 11: TOXICOLOGICAL INFORMATION

PRODUCT TOXICITY:	Not determined
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COMPONENT TOXICITY

INGREDIENT	LD 50 (oral, rat)	LD50 (dermal)	LC50 (inhal, rat)
Sulfuric acid	2140 mg/kg	Not available	255 mg/m ³ /4hr

SKIN CONTACT:	May cause irritation. Will stain exposed skin. Prolonged contact may cause dermatitis.
EYE CONTACT:	May cause irritation. Contains a cationic dye and may cause staining.
INGESTION:	No adverse effects expected from incidental ingestion.
INHALATION:	Low hazard for usual industrial handling. Inhalation of mists or vapours may cause respiratory tract irritation, nausea, vomiting, diarrhea and central nervous system effects.
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:	Product information not determined.
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INGREDIENT	LC50 (fish)	EC50 (invertebrate)	EC50 (algae)
Sulfuric acid	500 mg/L/96hr	29 mg/L/24 hr (water flea)	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/incinerate in accordance with federal, state 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:	Not regulated
DOT:	Not regulated
IATA:	Not regulated
IMDG:	Not regulated
UN NUMBER:	Not applicable
PROPER SHIPPING NAME:	Not applicable
CLASS:	Not applicable
PACKING GROUP:	Not applicable
IMDG HAZARDS:	Not applicable
BULK TRANSPORT:	Not applicable
SPECIAL PRECAUTIONS:	Not applicable

SECTION 15: REGULATORY INFORMATION

DSL:	All ingredients are listed on the DSL.
WHMIS 1988 CLASSIFICATION:	E
TSCA:	All ingredients are listed or exempt from listing.

SECTION 16: OTHER INFORMATION

REVISION DATE: November 8, 2018

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