



Safety Data Sheet
According to the (US) Hazard Communication Standard (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name Sulfuric Acid, 2.0 N
NCL Catalog Number S-91
Product Description Laboratory chemical
Supplier
NCL of Wisconsin, Inc. **Telephone:** 1-800-648-7836 **Fax:** 715-449-2454
P.O. Box 8 **Emergency Contact:** 1-800-424-9300 (Chemtrec)
Birnamwood, WI 54414 **Email:** nclabs@nclabs.com

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification

Skin Corrosion/Irritation Category 1B
Serious Eye Damage Category 1



Signal Word Danger

Hazard Statements

P314 Causes severe skin burns and eye damage.

Precautionary Statements

P260 Do not breathe mist/vapors/spray.
P264 Wash exposed skin thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
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/shower.
P363 Wash contaminated clothing before reuse.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310 Immediately call a POISON CENTER or doctor.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor.
P405 Store locked up.
P501 Dispose of contents/container to comply with local, state and federal regulations.

Other Hazards Not Contributing to the Classification None under normal conditions.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identity Not applicable
Common Name Not applicable

Mixture

| Name | CAS # | Approximate % |
|---------------------|-----------|---------------|
| Water | 7732-18-5 | 94.5 |
| Sulfuric Acid (96%) | 7664-93-9 | 5.5 |

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

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| General First Aid Measures | Never give anything by mouth to an unconscious person. Seek medical advice if you feel unwell. |
| If Inhaled | Remove person to fresh air and keep comfortable for breathing. Allow victim to rest. Immediately call a POISON CENTER or doctor. |
| In Case of Skin Contact | Remove all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor. |
| In Case of Eye Contact | Rinse carefully with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. |
| If Swallowed | Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. |

Most Important Symptoms/Effects Acute and Delayed

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| After Eye Contact | Causes severe skin burns and serious eye damage. |
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Indication of Immediate Medical Attention and Special Treatment Needed

Seek medical attention if exposed.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

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| Suitable Extinguishing Media | Foam. Dry powder. Sand. Carbon dioxide. Water spray. |
| Unsuitable Extinguishing Media | Do not use high pressure water stream. |

Special Hazards Arising from the Chemical

Thermal decomposition generates corrosive vapors. Reacts with some metals to release highly flammable gases/vapors.

Special Protective Actions for Fire-Fighters

Wear self-contained breathing apparatus and protective clothing. Keep exposed containers cool with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

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| Personal Precautions | Use personal protective equipment (see section 8). Evacuate area of non-essential personnel. Eliminate ignition sources. Ventilate area. |
| Environmental Precautions | Prevent entry to surface and ground waters. |
| Methods and Materials for Containment and Cleaning Up | Clean up spill with inert absorbent material. Collect spillage. Store away from; strong bases, metals, cyanides and heat sources. Ensure compliance with federal, state, and local regulations. |

SECTION 7: HANDLING AND STORAGE

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| Precautions for Safe Handling | Avoid contact with eyes and skin. Avoid breathing vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. |
| Conditions for Safe Storage Including any Incompatibilities | Keep in a tightly closed container, stored in a cool, dry, ventilated area. Store away from sunlight, which can contribute to instability. Store away from; strong acids and metals. Do not store in corrodible metal. |

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

| Sulfuric Acid, 96% w/w (7664-93-9) | | |
|------------------------------------|-------------------------------------|-----------------------|
| USA ACGIH | ACGIH (TWA) (mg/m ³) | 0.2 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 1 mg/m ³ |

Appropriate Engineering Controls

Material should be handled or transferred in a fume hood or with equivalent ventilation. Maintain eye-wash fountain and quick-drench facilities in work area.

Individual Protection Measures

Eye/Face Protection

Avoid all unnecessary exposure.

Use chemical safety goggles and /or a full face shield where splashing is possible. Contact lenses should not be worn when working with this material.

Skin Protection

Rubber or neoprene gloves and additional protection including impervious boots, apron, or coveralls, as needed in areas of unusual exposure to prevent skin contact.

Respiratory Protection

Wear appropriate mask.

Other Information

Do not eat, drink, or smoke when using this product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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| Physical State | Liquid |
| Color | Colorless |
| Odor | Odorless |
| Odor Threshold | Not determined |
| pH | Not determined |
| Melting Point/Freezing Point | Not determined |
| Initial Boiling Point and Boiling Range | Not determined |
| Flash Point | Not determined |
| Evaporation Rate | Not determined |
| Flammability (Solid, Gas) | Not determined |
| Upper/Lower Flammability/Explosive Limits | Not determined |
| Vapor Pressure | Not determined |
| Vapor Density | Not determined |
| Relative Density | Not determined |
| Solubility | Soluble in water |
| Partition Coefficient: n-octanol/water | Not determined |
| Auto-Ignition Temperature | Not determined |
| Decomposition Temperature | Not determined |
| Viscosity | Not determined |

SECTION 10: STABILITY AND REACTIVITY

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|---|---|
| Reactivity | Thermal decomposition generates corrosive vapors. |
| Chemical Stability | Stable under ordinary conditions of use and storage. |
| Possibility of Hazardous Reactions | Reacts water, steam, carbonates, cyanides and sulfides. |
| Conditions to Avoid | Extremely high or low temperatures. Heat and sunlight can contribute to instability. |
| Incompatible Materials | Metals, strong bases, metal oxides, hydroxides, amines, and alkaline materials. |
| Hazardous Decomposition Products | When heated to decomposition, can emit toxic gases, sulfur compounds. Thermal decomposition generates corrosive vapors. |

SECTION 11: TOXICOLOGICAL INFORMATION

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|---|----------------|
| Acute Toxicity | Not classified |
| Sulfuric Acid, 96% w/w (7664-93-9) | |
| LD50 oral rat | 2140 mg/kg |
| Water (7732-18-5) | |
| LD50 oral rat | ≥90000 mg/kg |

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|--|----------------------------|
| Skin Corrosion/Irritation | Causes severe skin burns. |
| Serious Eye Damage/Irritation | Causes serious eye damage. |
| Respiratory or Skin Sensitization | Not classified |

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| Germ Cell Mutagenicity | Not classified |
| Carcinogenicity | Not classified |
| Reproductive Toxicity | Not classified |
| Specific Target Organ Toxicity (Single Exposure) | Not classified |
| Specific Target Organ Toxicity (Repeated Exposure) | Not classified |
| Aspiration Hazard | Not classified |
| Potential Adverse Human Health Effects and Symptoms | No data available |
| Symptoms/Injuries After Eye Contact | Causes serious eye damage. |
| Chronic Symptoms | Not available |
| Other Information | Not available |

SECTION 12: ECOLOGICAL INFORMATION

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|--------------------------------------|----------------|
| Toxicity | Not applicable |
| Persistence and Degradability | Not applicable |
| Bioaccumulative Potential | Not applicable |
| Mobility in Soil | Not applicable |
| Other Adverse Effects | Not applicable |

SECTION 13: DISPOSAL CONSIDERATIONS

Methods of Disposal

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|---------------------------------|--|
| Disposal Recommendations | Dispose of contents/containers in accordance with federal, state, and local regulations. |
| Other Information | Avoid release to the surrounding environment. |

SECTION 14: TRANSPORT INFORMATION

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|-----------------------------------|-------------------------|
| UN Number | 2796 |
| UN Shipping Name | Sulfuric acid solution. |
| Transport Hazard Class(es) | Not applicable |
| Packing Group | Not applicable |
| Environmental Hazards | Not applicable |
| Transport in Bulk | Not applicable |
| Other Precautions | Not applicable |

SECTION 15: REGULATORY INFORMATION

| Sulfuric Acid, 2.0 N | |
|---|---------------------------------|
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard |
| Sulfuric Acid, 96% w/w (7664-93-9) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| RQ (Reportable Quantity) | 1000 lb |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard |
| Water (7732-18-5) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |

SECTION 16: OTHER INFORMATION

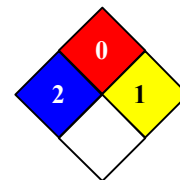
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NFPA Hazards

Health Hazard 2: Intense or prolonged exposure may cause incapacitation; residual injury may occur if not treated.

Fire Hazard 0: Materials that will not burn.

Reactivity/Instability 1: May become unstable at elevated temperatures and pressures, may be mildly water reactive.



HMIS III Rating

Health 3: Major injury likely unless prompt action is taken and medical treatment is given.

Flammability 0: Materials that will not burn.

Physical Hazard 1: Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

Personal Protection H

| S-91 | |
|---------------------|---|
| Health | 3 |
| Flammability | 0 |
| Physical Hazard | 1 |
| Personal Protection | H |

The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, NCL of Wisconsin, Inc. makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for their conditions of use. Accordingly, NCL of Wisconsin, Inc. will not be responsible for damages of any kind resulting from the use of or reliance upon such information.

END OF SAFETY DATA SHEET