
15. REGULATORY INFORMATION

The CAS numbers of all components of this solution are listed on the TSCA Inventory.

16. OTHER INFORMATION

NFPA Hazard Ratings:

Health:	3
Flammability:	0
Reactivity:	2
Special Hazards:	Reacts violently with water.

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END OF MATERIAL SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET

NCL of Wisconsin, Inc.

P.O. Box 8

Biramwood, WI 54414

Emergency Telephone No: 800-424-9300 (Chemtree)

PRODUCT NAME: SULFURIC ACID, 50% (v/v)

NCL CATALOG NUMBER: S-96

Date of this revision: 07/25/2007

1. CHEMICAL PRODUCT IDENTIFICATION

Trade name: None.

Chemical Formula: Solution in water.

Formula CAS No: Not applicable.

Molecular Weight: Not applicable.

2. COMPOSITION

Component	CAS#	Approx %
Water	7732-18-535	
Sulfuric acid	7664-93-9	65

3. HAZARD IDENTIFICATION

CAUSES BURNS. Vapor irritating. HARMFUL IF INHALED OR SWALLOWED. Do not get in eyes, on skin or on clothing. Minimal contact, as with all chemicals, is a good policy to follow. Remove and wash contaminated clothing before re-use.

Routes of entry: Ingestion, inhalation, or skin contact.

Carcinogenicity: This material is not listed (IARC, NTP, OSHA) as a cancer causing agent.

4. FIRST AID MEASURES

Ingestion: If swallowed, DO NOT INDUCE VOMITING! Give large quantities of water or milk if available. Call a physician.

Inhalation: Remove to fresh air. Give artificial respiration if breathing has stopped.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin: Immediately flush skin with plenty of water. Get medical attention if irritation develops.

5. FIRE FIGHTING MEASURES:

Flash Point: Not determined.
Flammable Limits (LEL): Not Determined.
Flammable Limits (UEL): Not Determined.
Fire: None.
Fire Extinguishing Media: Use any available means to extinguish surrounding fire.
Explosion Hazards: Thermal decomposition produces toxic fumes.

6. ACCIDENTAL RELEASE MEASURES

Evacuate area of non-essential personnel.
Eliminate ignition sources.
Neutralize with soda ash (sodium carbonate). Scoop up material and transfer to a plastic container and send to a RCRA-approved waste facility.
Ensure compliance with Federal, State, and local regulations.

7. HANDLING AND STORAGE

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Avoid breathing vapors. Avoid contact with eyes, skin, and clothing.

8. EXPOSURE CONTROLS

Airborne Exposure Limits:
None established for product.
For 100% Sulfuric Acid (product contains 65%)
OSHA Permissible Exposure Limit (PEL): 1 mg/cu.m (TWA)
ACGIH Threshold Limit Value (TLV): 10 mg/cu.m (TWA);
3 mg/cu.m (STEL)
Ventilation System: Material should be handled or transferred in a fume hood or with equivalent ventilation. Personal Respirators (NIOSH Approved): If the TLV is exceeded a full facepiece chemical cartridge respirator may be worn, in general, up to the maximum use concentration specified by the respirator supplier, or up to 100 times the TLV, whichever is less. Alternatively, a supplied air full facepiece respirator or airlined hood may be worn. 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.
Eye Protection: 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. Maintain eye-wash fountain and quick-drench facilities in work area.

9. PHYSICAL CHEMICAL PROPERTIES

Appearance: Clear, colorless liquid.
Odor: Slightly acidic.
Solubility: Infinitely soluble in water.
Boiling Point: Not Determined.
Melting Point: Not Determined.
Specific Gravity: 1.56
Vapor Density (Air=1): Not Determined.
Vapor Pressure (mm Hg): Not Determined.
Evaporation Rate: Not Determined.

10. STABILITY AND REACTIVITY

Stability: Stable under ordinary conditions of use and storage. Containers may burst when heated.
Hazardous Decomposition Products: Toxic fumes of sulfur. Will react with water or steam to produce toxic and corrosive fumes. Reacts with carbonates to produce carbon dioxide gas, cyanides to produce hydrogen cyanide, sulfides to produce hydrogen sulfide, etc.
Hazardous Polymerization: This substance does not polymerize.
Incompatibilities: Highly reactive with strong bases, metals, metal oxides, hydroxides, amines, and other alkaline materials.
Incompatible with materials such as cyanides, sulfides, sulfites, and formaldehyde.

11. TOXICOLOGICAL INFORMATION:

No toxicity data for product.
For 100% Sulfuric Acid (product contains 65%):
orl-rat LD50: 2140 mg/kg
ihl-gpg LC50: 18 mg/cu.m.

12. ECOLOGICAL INFORMATION

None found.

13. DISPOSAL CONSIDERATIONS

EPA Waste Number: None for product.
For Sulfuric Acid: D002
Neutralize to a pH of 6-9.
Ensure compliance with Federal, State, and local regulations.

14. TRANSPORT INFORMATION

DOT Shipping Name: Sulfuric acid solution
DOT Number: UN1830