

SAFETY DATA SHEET

Sulfuric Acid 6.0N

Version 1.0 Revision 06
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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Details

Product name : Sulfuric Acid 6.0N solution
Trade name : Sulfuric Acid 6.0N solution monohydrate
Chemical name : Hydrogen sulfate solution, Sulfuric Acid solution
Molar mass : 98.079 g/mol
Chemical family : Acid. Solution
Chemical formula : H_2SO_4 in H_2O
Manufacturer's code : CD04-600142
Use : laboratory chemicals, analytical reagents

1.2 Company Identification

Manufactures & distributors name : Centronics Sdn Bhd
 No. 23, Jalan Sungai Jerluh 32/196
 Seksyen 32, Bukit Kemuning
 40460 Shah Alam, SEL
Emergency tel. no. : 603-5525 2568
Fax. No. : 603-5131 5668

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the hazardous chemical

| | |
|----------------|-------------|
| Skin Corrosive | Category 1A |
| Eye Damage | Category 1 |

2.2 Label Element



Signal Word **Danger**

2.3 Hazard Statements

H290 - May be corrosive to metals
 H314 - Causes severe skin burns and eye damage

2.4 Precautionary Statements

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection
 P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
 P310 - Immediately call a POISON CENTER or doctor/ physician
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower
 P234 - Keep only in original container

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2.5 Emergency Overview

DANGER! CORROSIVE! Liquid and mist cause severe burns to all body tissue. May be fatal if swallowed. Harmful if inhaled. Water reactive. May be harmful if inhaled. Corrosive to metals.

Potential Health Effects

Eyes Contact Corrosive. Causes severe eye irritation, blurred vision and possible burns.
Skin Contact Corrosive. Symptoms of redness and severe burn can occur.
Inhalation Symptoms may include irritation of the nose and throat.
Ingestion Corrosive. Swallowing can cause severe burns of the mouth, throat and stomach, leading to death. Can cause sore throat, vomiting, diarrhea.

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

| CAS# | Chemical Name | % | Hazardous |
|-----------|---------------|-------|-----------|
| 7664-93-9 | Sulfuric Acid | 16.49 | Yes |
| 7732-18-5 | Water | 83.51 | No |

SECTION 4: FIRST AID MEASURES

Eyes Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

Skin In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse.

Ingestion If swallowed, do NOT induce vomiting. Get medical aid immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Immediate medical attention is required.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Flammability of the Product

Non – flammable

5.2 Fire Extinguishing Media

Dry chemical, foam or carbon dioxide. Do not use water on material. However, water spray may be used to keep fire exposed containers cool.

5.3 Firefighting instructions

As in any fire, wear a self-contained breathing apparatus in pressure-demand, and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Use water with caution and in flooding amounts. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. Non-combustible, substance itself does not burn but may decompose upon heating to produce irritating, corrosive and/or toxic fumes.

5.4 Special hazards

None of the components known can cause special hazards

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SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1 General Information

Use proper personal protective equipment as indicated in Section 8.

6.2 Small Spill and Leak

Dilute with water and mop up or absorb spill with inert dry material then place in appropriate waste disposal container.

6.3 Large Spill and Leak

Stop leak if without risk. Cover with DRY earth, DRY sand or other non-combustible material followed with plastic sheet to minimize spreading. Use water spray to reduce vapors. Avoid runoff into storm sewers and ditches which lead to waterways. Call for assistance on disposal

SECTION 7: HANDLING AND STORAGE

7.1 Handling

If necessary, use under a chemical fume hood. Wear personal protective equipment. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Do not ingest or inhale. Discard contaminated shoes. Wash thoroughly after handling.

7.2 Storage

Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Protect from physical damage. Keep out of direct sunlight and away from heat. Do not wash out container and use it for other purpose.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Airborne Exposure Limits

| Chemicals Name | ACGIH | NIOSH | OSHA |
|----------------|-----------------------------|--|------------------------|
| Water | None listed | None listed | None listed |
| Sulfuric Acid | 0.2 mg/m ³ (TWA) | 1 mg/m ³ TWA 15mg/m ³ IDLH | 1mg/m ³ TWA |

8.2 Ventilation System

Local exhaust ventilation is generally preferred.

| | |
|-----------------------------|--|
| Eyes Protection | Wear chemical splash goggles. |
| Skin Protection | Wear appropriate protective gloves (Nitrile) and suitable clothing to prevent skin exposure. |
| Personal Respirators | Wear a suitable mask when operate |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-------------------|------------------------------------|
| Appearance | Form : Liquid Color : Colorless |
| Odor | : Practically odorless |
| pH | : ~1.0 |

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| | |
|----------------------------------|-----------------------------|
| Vapor Pressure | : No information available. |
| Vapor Density | : >1.0 |
| Evaporation Rate | : Not available. |
| Boiling Point | : 100°C |
| Melting Point | : 0°C |
| Flash Point | : Non flammable |
| Decomposition Temperature | : Non flammable |
| Solubility | : Soluble in water |
| Specific Gravity/Density | : >1.0 |

SECTION 10: STABILITY AND REACTIVITY

| | |
|---|--|
| Stability | : Stable. |
| Conditions To Avoid | : Extreme temperatures. |
| Incompatibility (Material To Avoid) | : Metals, Powdered metals, Reducing agents, Bases, Organic Materials |
| Hazardous Decomposition Or By-Products | : Sulfur oxides, Hydrogen |
| Hazardous Polymerization | : Hazardous polymerization does not occur |

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

| | | |
|--|---|------------------------|
| RTECS Number | Sulfuric Acid Water | WS5600000 ZC0110000 |
| Toxicity | LD50: Not available | |
| Chronics Effects on Humans | Not available | |
| Irritancy | Cause irritation and burns. | |
| Carcinogenic | Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65. | |
| Effects Toxicity to Reproductive System | Not available | |

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Acute Effects on Humans Hazardous in case of eye contact. Causes eye burns.
 Hazardous in case of skin contact. Skin contact produce burns. Hazardous in case of inhalation (lung irritant).

SECTION 12: ECOLOGICAL INFORMATION

Mobility & bioaccumulation No data available

Ecotoxicity No available.

Environmental No information available

Toxicity of the Products of Biodegradation The products of degradation are less toxic than the product itself

SECTION 13: DISPOSAL INFORMATION

Product
 Whatever product cannot be saved for recovery or recycling should be handled as hazardous waste and sent to an approved waste facility.

RCRA HAZARD CLASS: Not Listed

Contaminated packaging
 Dispose of as unused product

SECTION 14: TRANSPORT INFORMATION

Proper Shipping Name Sulfuric Acid Solution
Un Number 3264
Hazard Class 8
Packing Group II
Special Shipping Instructions Not applicable

SECTION 15: REGULATORY INFORMATION

NFPA Ratings
 Health: 3 Flammability: 0 Reactivity: 2

TSCA: Listed in TSCA inventory
 Environmental Quality Act 1974: this product not contains air pollutant

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SECTION 16: OTHER INFORMATION

Key literature references and sources for data

Suppliers safety data sheet,
Chemadvisor - LOLI,
Merck index,

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Revision of the SDS: 6th Revision
Reason for revision: Product information update

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End of Safety Data Sheet