

# SAFETY DATA SHEET

Silica reagent – Reducing reagent

Version 1.0 Revision 1  
Revision Date: 24/08/2021  
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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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### 1.1 Product Details

**Product name** : Silica reagent – Reducing reagent  
**Trade name** : Silica reagent – Reducing reagent  
**Chemical name** : Not applicable  
**Molecular weight** : Not applicable  
**Chemical family** : Acid solution  
**Manufacturer's code** : CD04-600201  
**Identified uses** : Laboratory chemicals, silica reagents

### 1.2 Company Identification

**Manufacturer's name** : Centronics Sdn Bhd  
**Distributor's name & address** : Centronics Sdn Bhd  
 Centronics Systems & Services Sdn Bhd  
 No. 23, Jln Sungai Jerluh 32/196  
 Seksyen 32, Bukit Kemuning  
 40460 Shah Alam, SEL  
**Emergency tel. no.** : 603-5525 2568  
**Fax. no.** : 603-5131 5668

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## SECTION 2: HAZARDS IDENTIFICATION

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### 2.1 Classification of the substance or mixture

Classification according to (GHS-US)  
 Skin Irrit. 2;H315 Causes skin irritation  
 Eye Dam. 1;H318 Causes serious eye damage

### 2.2 Label elements



**Signal word**

**Warning**

### 2.3 Hazard statements

H315 - Causes skin irritation  
 H319 - Causes serious eye irritation

### 2.4 Precautionary statements

P264 - Wash exposed skin thoroughly after handling  
 P280 - Wear protective gloves, protective clothing, eye protection, face protection  
 P302+P352 - IF ON SKIN: Wash with plenty of soap and water  
 P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P332+P313 - If skin irritation occurs: Get medical advice/attention  
 P337+P313 - If eye irritation persists: Get medical advice/attention

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P362 - Take off contaminated clothing and wash before reuse

## Other hazards

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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### Mixtures

Chemical Names	CAS #	Percentage (%)	Classification (GHS-US)
Ferric ammonium sulfate (dodecahydrate)	7783-83-7	0.4	-
Sulfuric acid	7664-93-9	1.5	Skin Corr. 1A H314 Eye Dam. 1 H318
Water	7732-18-5	98.1	-

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## SECTION 4: FIRST AID MEASURES

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### Description of first aid measures

<b>General</b>	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).
<b>Inhalation</b>	Nasal irritation, headache, dizziness, nausea, vomiting, heart palpitations, breathing difficulty, cyanosis, tremors, weakness, red flushing of face, irritability. Remove exposed person from source of exposure to fresh air. If not breathing, clear airway and start cardiopulmonary resuscitation (CPR). Avoid mouth-to-mouth resuscitation.
<b>Eyes</b>	Eye irritation. Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get immediate medical attention.
<b>Skin</b>	Itching or burning of the skin. Immediately flush the skin with plenty of water while removing contaminated clothing and shoes. If irritation, redness, or burning sensation develops and persists, obtain medical advice. Wash contaminated clothing before reuse.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Do not induce vomiting unless directed by medical personnel.

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## SECTION 5: FIRE-FIGHTING MEASURES

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### 5.1. Extinguishing media

Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.

### 5.2. Special hazards arising from the substance or mixture

The solution is not combustible but will react with other chemicals (hydroxides) and even water.

### 5.3. Advice for fire-fighters

Do not flush down sewers or other drainage systems. Exposed firefighters must wear NIOSH-approved positive pressure self-contained breathing apparatus with full-face mask and full protective clothing.

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## Conditions of flammability

Not flammable or combustible

## Additional information

No data available

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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**Personal Precaution** Keep unnecessary people away; isolate area. Use safety glasses. Keep are ventilated and soak up spill with inert solids, such as clay or diatomaceous earth as soon as possible. (Also see Section 8)

Do not flush to sewer or waterways. Prevent release to the environment if possible. Refer to Section 15 for spill/release reporting information.

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## SECTION 7: HANDLING AND STORAGE

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### 7.1. Precaution for Safe Handling

Do not get in eyes, on skin. Keep container closed. Use only with adequate ventilation.

### 7.2. Hygiene

Use good personal hygiene practices. Wash hands before eating, drinking, smoking. Remove contaminated clothing and clean before re-use.

### 7.3 Storage

Keep containers closed and upright when not in use. Protect against physical damage.  
 Incompatible materials: None known

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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### 8.1 Airborne Exposure Limits

Chemicals Name	ACGIH	NIOSH	OSHA
Ferric ammonium sulfate (dodecahydrate)	No data available	No data available	No data available
Sulfuric acid	3 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>
Water	None listed	None listed	None listed

### 8.2 Personal protection

#### Eye/Face Protection

Wear chemical safety goggles, face shield or safety glasses. Have eye-wash stations available where eye contact can occur.

#### Skin Protection

Avoid skin contact. Wear gloves impervious to conditions of use. Additional protection may be necessary to prevent skin contact including use of apron, face shield, boots or full body protection. A safety shower should be located in the work area. Wear impervious gloves such as nitrile, minimum thickness 0.11 mm.

#### Respiratory Protection

Respiratory protection is not needed

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## 8.3 Engineering Controls

Local exhaust ventilation may be necessary to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source. Provide mechanical ventilation for confined spaces.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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### Information on basic physical and chemical properties

<b>Appearance</b>	Form: clear, liquid Colour: colourless
<b>Odour</b>	: Odourless
<b>Odour threshold</b>	: No data available
<b>Solubility</b>	: Soluble in water
<b>pH</b>	: 1.7
<b>Boiling Point</b>	: 215°F (101°C)
<b>Melting Point</b>	: No data available
<b>Vapour Pressure (mm of Hg at 25°C )</b>	: No data available
<b>Percentage Volatiles</b>	: No data available
<b>Evaporation Rate</b>	: No data available
<b>Vapour Density</b>	: No data available
<b>Specific Gravity</b>	: No data available
<b>Flash point</b>	: 1.0
<b>Autoignition temperature</b>	: No data available
<b>Octanol/Water Partition Coefficient</b>	: No data available
<b>Flammable limit (%) and other properties if applicable.</b>	: No data available

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## SECTION 10: STABILITY AND REACTIVITY

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<b>Stability</b>	: Stable under normal conditions
<b>Hazardous decomposition</b>	: Will not occur
<b>Material to avoid</b>	: Organic acids, metals, fulminates

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## SECTION 11: TOXICOLOGICAL INFORMATION

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### Signs and Symptoms of Overexposure

Eye and nasal irritation, headache, dizziness, nausea, vomiting, heart palpitations, difficulty breathing, cyanosis, tremors, weakness, itching or burning of the skin.

### Acute Effects

Not classified

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## Acute Toxicity

<b>Reducing Agent</b>	
<b>LD<sub>50</sub> Oral Rat</b>	> 3250 mg/kg

**Skin Corrosin/Irritation** : No data available

**Serious Eye Damage/Irritation** : No data available

**Respiratory or Skin Sensitization** : No data available

**Germ Cell Mutagenicity** : No data available

**Carcinogenity** : No data available

**ACGIH** : No data available

**Reproductive Toxicity** : No data available

**Teratogenicity** : No data available

### Specific target Organ toxicity-single exposure (Globally Harmonized System)

No data available

### Specific target Organ toxicity-repeated exposure (Globally Harmonized System)

No data available

**Aspiration Hazard** : No data available

## Potential Adverse Human Health Effects and Systems

**Inhalation** : May be harmful if inhaled. May cause respiratory tract irritation

**Ingestion** : May be harmful if swallowed

**Skin** : May be harmful if absorbed through the skin. May cause skin irritation

**Eyes** : May cause eye irritation

### Signs and symptoms of exposure

Nausea, vomiting, to the best of our knowledge, the chemical, physical and toxicological properties has not been thoroughly investigated.

**Synergistic effects** : No data available

**Other adverse effects** : No data available

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## SECTION 12: ECOLOGICAL INFORMATION

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No information available.

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## SECTION 13: DISPOSAL CONSIDERATIONS

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### Product

Dispose in a safe manner in accordance with local/national regulations

### Contaminated packaging

Dispose in a safe manner in accordance with local/national regulations.

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## SECTION 14: TRANSPORT INFORMATION

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### UN number

UN2796 Sulfuric Acid Solution, 8, Corrosive, PGII

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## SECTION 15: REGULATORY INFORMATION

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No additional information available

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

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## SECTION 16: OTHER INFORMATION

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**Health** : 2  
**Flammability** : 0  
**Reactivity** : 1  
**Special** : None

**Protective equipment:** B; Safety glasses, gloves

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Revision of the SDS: Revision 1  
Revision Summary: Review of content

### Disclaimer:

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