

Australian statement of hazardous nature : Classified as hazardous according to criteria of Safe Work Australia

## Section 1 - Identification

Product Name

Quartz

Product Code

**HAC26053-45**

Address

ThermoFisher Scientific Australia Pty Ltd  
 5 Caribbean Drive, Scoresby  
 VICTORIA 3179, Australia

Emergency Tel.

**CHEMTREC®**  
**03 9757 4559 or +613 9757 4559**

Telephone / Fax Numbers

Tel: 1300 735 292  
 Fax: 1800 067 639

E-mail address

ANZinfo@thermofisher.com

Recommended Use

Laboratory chemicals.

Uses advised against

This product contains one or more substance(s) on the Illicit Drug Precursors/Reagents list. Verify requirements related to using, handling and storing these substances. This product does not contain any substance(s) subject to Prohibition, Authorization or Restriction. This product contains one or more substance(s) listed on the voluntary National Code of Practice for Chemicals of Security Concern.

## Section 2 - Hazard(s) Identification

Classification under Safe Work Australia

Classified as hazardous according to criteria of Safe Work Australia

**Physical hazards**

No hazards identified

**Health hazards**

Skin Corrosion/Irritation  
 Serious Eye Damage/Eye Irritation  
 Specific target organ toxicity - (repeated exposure)

Category 1 A  
 Category 1  
 Category 2

**Environmental hazards**

No hazards identified

**Label Elements**

Contains 2 items in the kit



Health Hazard



Corrosion

**Signal Word****Danger****Hazard Statements**

H314 - Causes severe skin burns and eye damage

H373 - May cause damage to organs through prolonged or repeated exposure

**Precautionary Statements**

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

P271 - Use only outdoors or in a well-ventilated area

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 or shower

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

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

P363 - Wash contaminated clothing before reuse

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P501 - Dispose of contents/ container to an approved waste disposal plant

**Other information**

Toxic to terrestrial vertebrates

This product does not contain any known or suspected endocrine disruptors

## Section 3 - Composition and Information on Ingredients

| Component   | CAS No     | Weight %              |
|---|------------|-----------------------|
| Sulfuric acid   | 7664-93-9  | Test 'N Tube™ Reagent |
| Quartz  | 14808-60-7 | Reagent B             |
| Urea  | 57-13-6    | Reagent B             |
| Water   | 7732-18-5  | Test 'N Tube™ Reagent |
| Sodium metabisulfite  | 7681-57-4  | Reagent B             |
| 2,7-Naphthalenedisulfonic acid, 4,5-dihydroxy-, disodium salt | 129-96-4   | Reagent B             |
| Diantimony tris(sulphate)                                     | 7446-32-4  | Test 'N Tube™ Reagent |

## Section 4 - First Aid Measures

**Inhalation**

Remove to fresh air.

**Ingestion**

Clean mouth with water and drink afterwards plenty of water.

**Skin Contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

|  |   |
|--|---|
| <b>Eye Contact</b>                         | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.  |
| <b>Self-Protection of the First Aider</b>  | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.  |
| <b>First Aid Facilities</b>                | Eyewash, safety shower and washroom.  |
| <b>Most important symptoms and effects</b> | Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation |
| <b>Notes to Physician</b>                  | Treat symptomatically.  |

## Section 5 - Fire Fighting Measures

### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### Extinguishing media which must not be used for safety reasons

No information available.

### Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors.

### Special protective equipment and precautions for fire fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## Section 6 - Accidental Release Measures

### Emergency procedures

Ensure adequate ventilation.

### Environmental Precautions

See Section 12 for additional Ecological Information.

### Methods for Containment and Clean Up

#### Clean-up methods - small spillage

#### Clean-up methods - large spillage

Typically only supplied is small quantities as packaged goods.

If extremely toxic or used in larger quantities ensure a spillage action plan is in place. Evacuate area. Control the source and/or contain the spill if safe and able to do so. Use temporary diking, sand bags, dry sand, earth or proprietary booms/absorbent pads if available. Obtain advice on containment, neutralisation and clean-up from local emergency responders.

### Reference to Other Sections

Refer to protective measures listed in Sections 8 and 13.

## Section 7 - Handling and Storage

### Precautions for Safe Handling

Ensure adequate ventilation.

**Conditions for Safe Storage, Including any Incompatibilities**

Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area.

AS/NZS 2243.10:2004, Safety in laboratories - Storage of chemicals

## Section 8 - Exposure Controls and Personal Protection

**Exposure limits**

**AUS** - Exposure Standards for Atmospheric Contaminants in the Occupational Environment - Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:3008(1995)]

Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)] updated in August, 2005. Safe Work Australia

**ACGIH** - Threshold Limit Values - Ceiling (TLV-C) guidelines by the American Conference of Governmental Industrial Hygienists (ACGIH) for controlling worker exposure to airborne chemical concentrations in the workplace.

**UK** - EH40/2005 Work Exposure Limits, Fourth edition. Published 2020.

**DE** - MAK and BAT values of Hazardous Chemical Compounds in the Work Area. Published by German Research Foundation on July 1, 2011

**NZ** - Workplace Exposure Standards and Biological Exposure Indices (6th edition). New Zealand Department of Labor

| Component                 | Australia   | New Zealand WEL             | ACGIH TLV                    | The United Kingdom   | Germany  |
|---------------------------|---|-----------------------------|------------------------------|--|--|
| Sulfuric acid             | STEL: 3 mg/m <sup>3</sup><br>TWA: 1 mg/m <sup>3</sup> | TWA: 0.1 mg/m <sup>3</sup>  | TWA: 0.2 mg/m <sup>3</sup>   | STEL: 0.15 mg/m <sup>3</sup> 15 min<br>TWA: 0.05 mg/m <sup>3</sup> 8 hr                            | TWA: 0.1 mg/m <sup>3</sup> (8 Stunden). AGW - exposure factor 1<br>TWA: 0.1 mg/m <sup>3</sup> (8 Stunden). MAK<br>Höhepunkt: 0.1 mg/m <sup>3</sup> |
| Quartz                    | TWA: 0.05 mg/m <sup>3</sup>                           | TWA: 0.05 mg/m <sup>3</sup> | TWA: 0.025 mg/m <sup>3</sup> | STEL: 0.3 mg/m <sup>3</sup> 15 min<br>TWA: 0.1 mg/m <sup>3</sup> 8 hr<br>Carc. respirable fraction |  |
| Sodium metabisulfite      | TWA: 5 mg/m <sup>3</sup>                              | TWA: 5 mg/m <sup>3</sup>    | TWA: 5 mg/m <sup>3</sup>     | STEL: 15 mg/m <sup>3</sup> 15 min<br>TWA: 5 mg/m <sup>3</sup> 8 hr                                 |  |
| Diantimony tris(sulphate) | TWA: 0.5 mg/m <sup>3</sup>                            |                             | TWA: 0.5 mg/m <sup>3</sup>   | STEL: 1.5 mg/m <sup>3</sup> 15 min<br>TWA: 0.5 mg/m <sup>3</sup> 8 hr                              |  |

**Biological limit values**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

**Exposure Controls****Engineering Measures**

Ensure that eyewash stations and safety showers are close to the workstation location.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

**Personal protective equipment****Eye Protection**

Goggles (Australian/New Zealand Standard AS/NZS 1337 - Eye protectors for Industrial applications)

**Hand Protection**

Protective gloves

| Glove material    | Breakthrough time                 | Glove thickness | AUS/NZ Standard | Glove comments        |
|-------------------|-----------------------------------|-----------------|-----------------|-----------------------|
| Disposable gloves | See manufacturers recommendations | -               | AS/NZS 2161     | (minimum requirement) |

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatibility, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

|  |  |
|--|--|
| <b>Skin and body protection</b>        | Long sleeved clothing  |
| <b>Respiratory Protection</b>          | Use an AS/NZS 1716 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained in line with AS/NZS 1715 on the use and maintenance of respiratory protective devices (or AUS/NZ equivalent)<br>When RPE is used a face piece Fit Test should be conducted |
| <b>Hygiene Measures</b>                | Handle in accordance with good industrial hygiene and safety practice.   |
| <b>Environmental exposure controls</b> | No information available.  |

## Section 9 - Physical and Chemical Properties

### Information on basic physical and chemical properties

|  |                          |  |
|--|--------------------------|--|
| <b>Appearance</b>                              | Colorless                |  |
| <b>Physical State</b>                          | Liquid                   |  |
| <b>Odor</b>                                    | No information available |  |
| <b>Odor Threshold</b>                          | No data available        |  |
| <b>pH</b>                                      | No data available <1     |  |
| <b>Melting Point/Range</b>                     | No data available        |  |
| <b>Softening Point</b>                         | No data available        |  |
| <b>Boiling Point/Range</b>                     | 210 °C / 410 °F          |  |
| <b>Flash Point</b>                             | Not applicable           | <b>Method -</b> No information available |
| <b>Evaporation Rate</b>                        | No data available        |  |
| <b>Flammability (solid,gas)</b>                | Not applicable           | Liquid                                   |
| <b>Explosion Limits</b>                        | No data available        |  |
| <b>Vapor Pressure</b>                          | No data available        |  |
| <b>Vapor Density</b>                           | No data available        | (Air = 1.0)                              |
| <b>Specific Gravity / Density</b>              | No data available        |  |
| <b>Bulk Density</b>                            | Not applicable           | Liquid                                   |
| <b>Water Solubility</b>                        | Miscible                 |  |
| <b>Solubility in other solvents</b>            | No information available |  |
| <b>Partition Coefficient (n-octanol/water)</b> |                          |  |
| <b>Component</b>                               | <b>log Pow</b>           |  |
| Urea   | -1.73                    |  |
| Sodium metabisulfite                           | -3.7                     |  |
| <b>Autoignition Temperature</b>                | No data available        |  |
| <b>Decomposition Temperature</b>               | No data available        |  |
| <b>Viscosity</b>                               | No data available        |  |
| <b>Explosive Properties</b>                    | No information available |  |
| <b>Oxidizing Properties</b>                    | No information available |  |

### Other information

## Section 10 - Stability and Reactivity

|   |                                   |
|---|-----------------------------------|
| <b>Reactivity</b>                       | Yes                               |
| <b>Stability</b>                        | Stable under normal conditions.   |
| <b>Conditions to Avoid</b>              | Heat, flames and sparks.          |
| <b>Incompatible Materials</b>           | None known.                       |
| <b>Hazardous Decomposition Products</b> | None under normal use conditions. |

Hazardous Polymerization

No information available.

## Section 11 - Toxicological Information

### Information on Toxicological Effects

#### Product Information

#### (a) acute toxicity;

Oral

Based on available data, the classification criteria are not met

Dermal

Based on available data, the classification criteria are not met

Inhalation

Based on available data, the classification criteria are not met

#### Toxicology data for the components

| Component            | LD50 Oral                 | LD50 Dermal               | LC50 Inhalation               |
|----------------------|---------------------------|---------------------------|-------------------------------|
| Sulfuric acid        | 2140 mg/kg ( Rat )        |                           | LC50 = 0.375 mg/L ( Rat ) 4 h |
| Urea                 | LD50 = 8471 mg/kg ( Rat ) |                           |                               |
| Water                | -                         | -                         | -                             |
| Sodium metabisulfite | LD50 = 1310 mg/kg ( Rat ) | LD50 > 2000 mg/kg ( Rat ) |                               |

#### (b) skin corrosion/irritation;

Category 1 A

#### (c) serious eye damage/irritation;

Category 1

#### (d) respiratory or skin sensitization;

Respiratory

No data available

Skin

No data available

#### (e) germ cell mutagenicity;

No data available

#### (f) carcinogenicity;

No data available

The table below indicates whether each agency has listed any ingredient as a carcinogen

| Component     | Australia | New Zealand          | New South Wales | Western Australia | IARC    | EU | UK | Germany |
|---------------|-----------|----------------------|-----------------|-------------------|---------|----|----|---------|
| Sulfuric acid |           | Confirmed carcinogen |                 |                   | Group 1 |    |    |         |
| Quartz        |           | Confirmed carcinogen |                 |                   | Group 1 |    |    | Cat. 1  |

#### (g) reproductive toxicity;

No data available

#### (h) STOT-single exposure;

No data available

#### (i) STOT-repeated exposure;

Category 2

Target Organs

No information available.

#### (j) aspiration hazard;

No data available

#### Symptoms / effects, both acute and delayed

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

## Section 12 - Ecological Information

### Ecotoxicity effects

| Component            | Freshwater Fish                                     | Water Flea                                    | Freshwater Algae   | Microtox   |
|----------------------|---|---|--|--|
| Sulfuric acid        | LC50: > 500 mg/L, 96h static (Brachydanio rerio)    | EC50: 29 mg/L/24h                             | -  | -  |
| Urea                 | LC50: 16200 - 18300 mg/L, 96h (Poecilia reticulata) | EC50: = 3910 mg/L, 48h Static (Daphnia magna) |  | = 23914 mg/L EC50 Photobacterium phosphoreum 5 min |
| Sodium metabisulfite | LC50: = 32 mg/L, 96h static (Lepomis macrochirus)   |   | EC50: = 40 mg/L, 96h (Desmodesmus subspicatus)<br>EC50: = 48 mg/L, 72h (Desmodesmus subspicatus) | EC50 = 56 mg/L 17 h                                |

### Persistence and Degradability

#### Persistence

Miscible with water, Persistence is unlikely, based on information available.

#### Bioaccumulative Potential

Bioaccumulation is unlikely

| Component            | log Pow | Bioconcentration factor (BCF) |
|----------------------|---------|-------------------------------|
| Urea                 | -1.73   | <10 dimensionless             |
| Sodium metabisulfite | -3.7    | No data available             |

### Mobility

The product is water soluble, and may spread in water systems. Will likely be mobile in the environment due to its water solubility. Highly mobile in soils

### Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

### Persistent Organic Pollutant

This product does not contain any known or suspected substance

### Ozone Depletion Potential

This product does not contain any known or suspected substance

## Section 13 - Disposal Considerations

### Waste from Residues/Unused Products

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with all federal, E.P.A., state and local regulations. Assure conformity with all applicable regulations.

### Contaminated Packaging

Dispose of this container to hazardous or special waste collection point.

### Other Information

Chemical wastes should be disposed through a licensed commercial waste collection service. Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains. Do not flush to sewer. Large amounts will affect pH and harm aquatic organisms.

## Section 14 - Transport Information

### IMDG/IMO

|                         |  |
|-------------------------|--|
| UN-No                   | UN1830                                   |
| Proper Shipping Name    | SULPHURIC ACID                           |
| Technical Shipping Name | Nitrate-Nitrogen Test N Tube reagent set |
| Hazard Class            | 8  |
| Packing Group           | II                                       |

### ADG

|       |        |
|-------|--------|
| UN-No | UN1830 |
|-------|--------|

**Proper Shipping Name** SULPHURIC ACID  
**Technical Shipping Name** Nitrate-Nitrogen Test N Tube reagent set  
**Hazard Class** 8  
**Packing Group** II

| Component   | Hazchem Code          |
|---|-----------------------|
| Sulfuric acid<br>7664-93-9 ( Test N Tube™ Reagent ) | 2P<br>4WE<br>2W<br>2R |

**IATA**

**UN-No** UN1830  
**Proper Shipping Name** SULPHURIC ACID  
**Technical Shipping Name** Nitrate-Nitrogen Test N Tube reagent set  
**Hazard Class** 8  
**Packing Group** II

**Environmental hazards** No hazards identified  
**Special Precautions** No special precautions required  
**Additional information** None known

## Section 15 - Regulatory Information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National Regulations Australia

See section 8 for national exposure control parameters.

| Component                          | Health Surveillance   |
|------------------------------------|---|
| Quartz<br>14808-60-7 ( Reagent B ) | Listed<br>Demographic, medical and occupational history<br>Chest X-ray full size PA view<br>Standardised respiratory function test, for example, FEV1, FVC and FEV1/FVC<br>Standardised respiratory questionnaire to be completed<br>Records of personal exposure |

#### Standard for the Uniform Scheduling of Medicines and Poisons

Classified as a scheduled poison according to the Standard for Uniform Scheduling of Medicines and Poisons.

| Component                             | Standard for the Uniform Scheduling of Medicines and Poisons  |
|---------------------------------------|---|
| Sulfuric acid - 7664-93-9             | Schedule 6 listed - except its salts and derivatives; except in fire extinguishers, or in preparations containing $\leq 0.5\%$ of Sulfuric acid   |
| Sodium metabisulfite - 7681-57-4      | Schedule 5 listed - when packed for domestic use except in preparations containing $\leq 10\%$ of Sodium metabisulphite   |
| Diantimony tris(sulphate) - 7446-32-4 | Schedule 4 listed - for therapeutic use except when separately specified in these Schedules<br>Schedule 6 listed - except: when included in Schedule 4, Antimony chloride in polishes, Antimony titanate pigments in paint, or in paints or tinters containing $\leq 5\%$ of Antimony calculated on the non-volatile content of the paint or tinter |

#### Australian Industrial Chemicals Introduction Scheme (AICIS)

| Component                 | Australian Industrial Chemicals Introduction Scheme (AICIS) | Additional information |
|---------------------------|---|------------------------|
| Sulfuric acid - 7664-93-9 | Present   | -                      |
| Quartz - 14808-60-7       | Present   | -                      |



|   |         |   |
|---|---------|---|
| Urea - 57-13-6  | Present | - |
| Water - 7732-18-5   | Present | - |
| Sodium metabisulfite - 7681-57-4  | Present | - |
| 2,7-Naphthalenedisulfonic acid,<br>4,5-dihydroxy-, disodium salt - 129-96-4 | Present | - |

**Australian - Illicit Drug Precursors/Reagents Substance List**

This product contains one or more substance(s) on the Illicit Drug Precursors/Reagents list. Verify requirements related to using, handling and storing these substances.

**Chemicals of Security Concern**

This product contains one or more substance(s) listed on the voluntary National Code of Practice for Chemicals of Security Concern

| Component                 | Australian - Illicit Drug Precursors/Reagents Substance List | Chemicals of Security Concern |
|---------------------------|--|-------------------------------|
| Sulfuric acid - 7664-93-9 | Category 3   | Listed in Appendix A          |

**Legend**

Category 3 - Chemicals and apparatus that may be used in the illicit production of drugs. Purchases from this list should alert companies or organizations to seek further indicators of any suspicious orders or enquiries. No official reporting is required for items on this list unless considered warranted

**Chemicals of Security Concern** - for further information see <http://www.chemicalsecurity.gov.au/securityconcerns>

**National pollutant inventory** Subject to reporting requirements

| Component                 | National pollutant inventory      |
|---------------------------|-----------------------------------|
| Sulfuric acid - 7664-93-9 | 10 tonne/yr. Threshold category 1 |

**Prohibition or notification/licensing requirements**

Shown below are details of specific prohibition/notifications or licencing requirements when they apply.

This product does not contain any substance(s) subject to Prohibition, Authorization or Restriction.

| Component                 | Australia | New South Wales | Western Australia | New Zealand          |
|---------------------------|-----------|-----------------|-------------------|----------------------|
| Sulfuric acid - 7664-93-9 |           |                 |                   | Confirmed carcinogen |
| Quartz - 14808-60-7       |           |                 |                   | Confirmed carcinogen |

**International Inventories**

| Component  | AICS | NZIoC | EINECS    | ELINCS | TSCA | DSL | NDSL | PICCS | ENCS | ISHL | IECSC | KECL     |
|--|------|-------|-----------|--------|------|-----|------|-------|------|------|-------|----------|
| Sulfuric acid  | X    | X     | 231-639-5 | -      | X    | X   | -    | X     | X    | X    | X     | KE-32570 |
| Quartz   | X    | X     | 238-878-4 | -      | X    | X   | -    | X     | X    | X    | X     | KE-29983 |
| Urea   | X    | X     | 200-315-5 | -      | X    | X   | -    | X     | X    | X    | X     | KE-35144 |
| Water  | X    | X     | 231-791-2 | -      | X    | X   | -    | X     | X    |      | X     | KE-35400 |
| Sodium metabisulfite   | X    | X     | 231-673-0 | -      | X    | X   | -    | X     | -    | X    | X     | KE-12701 |
| 2,7-Naphthalenedisulfonic acid,<br>4,5-dihydroxy-, disodium salt | X    | X     | 204-972-9 | -      | X    | X   | -    | X     | X    | X    | X     | KE-10845 |
| Diantimony tris(sulphate)  | -    | -     | 231-207-6 | -      | -    | -   | -    | -     | -    | X    | -     | KE-09847 |

**Legend:** X - Listed. '-' - Not Listed. **KECL** - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

**International Regulations**

**Ozone Depletion Potential** This product does not contain any known or suspected substance

**Persistent Organic Pollutant** This product does not contain any known or suspected substance

## Rotterdam Convention (PIC)

Not applicable

## Basel convention on the control of transboundary movements of hazardous wastes and their disposal

Take note that wastes may be subject to export, import, or transit controls pursuant to the Basel convention and/or local regulations implementing the Basel convention.

| Component                             | Basel Convention (Hazardous Waste) | Australian Hazardous Waste Act - Categories of Wastes to Be Controlled |
|---------------------------------------|------------------------------------|--|
| Sulfuric acid - 7664-93-9             | Annex I - Y34                      | Y34 solid or solution  |
| Diantimony tris(sulphate) - 7446-32-4 | Annex I - Y27                      | Y27  |

| Component   | CAS No     | OECD HPV       | Restriction of Hazardous Substances (RoHS) | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements |
|---|------------|----------------|--|---|--|
| Sulfuric acid   | 7664-93-9  | Listed         | Not applicable                             | Not applicable  | Not applicable   |
| Quartz  | 14808-60-7 | Listed         | Not applicable                             | Not applicable  | Not applicable   |
| Urea  | 57-13-6    | Listed         | Not applicable                             | Not applicable  | Not applicable   |
| Water   | 7732-18-5  | Listed         | Not applicable                             | Not applicable  | Not applicable   |
| Sodium metabisulfite  | 7681-57-4  | Listed         | Not applicable                             | Not applicable  | Not applicable   |
| 2,7-Naphthalenedisulfonic acid, 4,5-dihydroxy-, disodium salt | 129-96-4   | Not applicable | Not applicable                             | Not applicable  | Not applicable   |
| Diantimony tris(sulphate)                                     | 7446-32-4  | Not applicable | Not applicable                             | Not applicable  | Not applicable   |

## Authorisation/Restrictions according to EU REACH

| Component                 | REACH (1907/2006) - Annex XIV - Substances Subject to Authorization | REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|---------------------------|---|---|---|
| Sulfuric acid             | -   | Use restricted. See item 75. (see link for restriction details)               | -   |
| Sodium metabisulfite      | -   | Use restricted. See item 75. (see link for restriction details)               | -   |
| Diantimony tris(sulphate) | -   | Use restricted. See item 75. (see link for restriction details)               | -   |

<https://echa.europa.eu/substances-restricted-under-reach>

## Section 16 - Other Information

## Legend

**AICS** - Australian Inventory of Chemical Substances  
**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**IECSC** - Chinese Inventory of Existing Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**TWA** - Time Weighted Average  
**IARC** - International Agency for Research on Cancer  
**ICAO/IATA** - International Civil Aviation Organization/International Air Transport Association  
**MARPOL** - International Convention for the Prevention of Pollution from Ships  
**NZS 5433:2020** - Transport of Dangerous Goods on Land

**NZIoC** - New Zealand Inventory of Chemicals  
**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances  
**ENCS** - Japanese Existing and New Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**CAS** - Chemical Abstracts Service  
**ACGIH** - American Conference of Governmental Industrial Hygienists  
**PNEC** - Predicted No Effect Concentration  
**IMO/IMDG** - International Maritime Organization/International Maritime Dangerous Goods Code  
**ADG** - Australian Code for the Transport of Dangerous Goods by Road and Rail  
**OECD** - Organisation for Economic Co-operation and Development

**LD50** - Lethal Dose 50%  
**EC50** - Effective Concentration 50%  
**WEL** - Workplace Exposure Limit  
**DNEL** - Derived No Effect Level  
**POW** - Partition coefficient Octanol:Water  
**vPvB** - very Persistent, very Bioaccumulative  
**VOC** - (Volatile Organic Compound)

**LC50** - Lethal Concentration 50%  
**ATE** - Acute Toxicity Estimate  
**RPE** - Respiratory Protective Equipment  
**NOEC** - No Observed Effect Concentration  
**BCF** - Bioconcentration factor  
**PBT** - Persistent, Bioaccumulative, Toxic

**Key literature references and sources for data**

<https://echa.europa.eu/information-on-chemicals>

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

**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

|                              |                       |
|------------------------------|-----------------------|
| <b>Physical hazards</b>      | On basis of test data |
| <b>Health Hazards</b>        | Calculation method    |
| <b>Environmental hazards</b> | Calculation method    |

**Training Advice**

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

|                         |                       |
|-------------------------|-----------------------|
| <b>Revision Date</b>    | 14-Jul-2023           |
| <b>Revision Summary</b> | Update to GHS format. |

**This Safety Data Sheet (SDS) is prepared in accordance to and complies with the requirements of Safe Work Australia - Work Health and Safety Regulations (WHS Regulations).**

**Disclaimer**

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## End of Safety Data Sheet