

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

## Section 1 - Identification

**Product Name** iCAP Q/RQ Tune Solution

|                                |  |
|--------------------------------|--|
| <b>Product Code</b>            | <b>47450</b>   |
| <b>Address</b>                 | ThermoFisher Scientific Australia Pty Ltd<br>5 Caribbean Drive, Scoresby<br>VICTORIA 3179, Australia |
| <b>Emergency Tel.</b>          | <b>CHEMTREC®</b><br><b>03 9757 4559 or +613 9757 4559</b>  |
| <b>Telephone / Fax Numbers</b> | Tel: 1300 735 292<br>Fax: 1800 067 639   |
| <b>E-mail address</b>          | ANZinfo@thermofisher.com   |

**Recommended Use** Laboratory chemicals.

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

|  |            |
|--|------------|
| Substances/mixtures corrosive to metal | Category 1 |
|--|------------|

#### Health hazards

|                                   |            |
|-----------------------------------|------------|
| Skin Corrosion/Irritation         | Category 2 |
| Serious Eye Damage/Eye Irritation | Category 1 |

#### Environmental hazards

No hazards identified

#### Label Elements



Corrosion

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

H290 - May be corrosive to metals

H315 - Causes skin irritation

H318 - Causes serious eye damage

**Precautionary Statements**

P234 - Keep only in original packaging

P264 - Wash face, hands and any 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

P310 - Immediately call a POISON CENTER or doctor

P390 - Absorb spillage to prevent material damage

P362 + P364 - Take off contaminated clothing and wash it before reuse

P406 - Store in corrosion resistant polypropylene container with a resistant inliner

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

**Other information**

No information available

**Section 3 - Composition and Information on Ingredients**

| Component                   | CAS No    | Weight % |
|-----------------------------|-----------|----------|
| Water                       | 7732-18-5 | 96.4     |
| Nitric acid ...% [C ≤ 70 %] | 7697-37-2 | 3        |
| Hydrochloric acid           | 7647-01-0 | 0.6      |

**Section 4 - First Aid Measures**

|  |  |
|--|--|
| <b>Inhalation</b>                          | Remove to fresh air. Get medical attention if symptoms occur. If not breathing, give artificial respiration.                                     |
| <b>Ingestion</b>                           | Clean mouth with water and drink afterwards plenty of water.   |
| <b>Skin Contact</b>                        | Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.                                |
| <b>Eye Contact</b>                         | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.                                  |
| <b>General Advice</b>                      | For further assistance, contact your local Poison Control Center. If symptoms persist, call 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 severe eye damage.  |
| <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.

### Hazardous Decomposition Products

Nitrogen oxides (NO<sub>x</sub>), Thermal decomposition can lead to release of irritating gases and vapors.

### Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes.

### 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

Use personal protective equipment as required. Ensure adequate ventilation.

### Environmental Precautions

Should not be released into the environment.

### Methods for Containment and Clean Up

#### Clean-up methods - small spillage

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

#### Clean-up methods - large spillage

Typically only supplied in 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

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Ensure adequate ventilation. Avoid ingestion and inhalation.

### Conditions for Safe Storage, Including any Incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

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

| Component                   | Australia   | New Zealand WEL   | ACGIH TLV                 | The United Kingdom   | Germany  |
|-----------------------------|---|---|---------------------------|--|--|
| Nitric acid ...% [C ≤ 70 %] | STEL: 4 ppm<br>STEL: 10 mg/m <sup>3</sup><br>TWA: 2 ppm<br>TWA: 5.2 mg/m <sup>3</sup> | TWA: 2 ppm<br>TWA: 5.2 mg/m <sup>3</sup><br>STEL: 4 ppm<br>STEL: 10 mg/m <sup>3</sup> | TWA: 2 ppm<br>STEL: 4 ppm | STEL: 1 ppm 15 min<br>STEL: 2.6 mg/m <sup>3</sup> 15 min   | TWA: 1 ppm (8 Stunden). AGW -<br>TWA: 2.6 mg/m <sup>3</sup> (8 Stunden). AGW -   |
| Hydrochloric acid           | Ceiling: 5 ppm<br>Ceiling: 7.5 mg/m <sup>3</sup>                                      | Ceiling: 5 ppm<br>Ceiling: 7.5 mg/m <sup>3</sup>                                      | Ceiling: 2 ppm            | STEL: 5 ppm 15 min<br>STEL: 8 mg/m <sup>3</sup> 15 min<br>TWA: 1 ppm 8 hr<br>TWA: 2 mg/m <sup>3</sup> 8 hr | TWA: 2 ppm (8 Stunden). AGW -<br>exposure factor 2<br>TWA: 3 mg/m <sup>3</sup> (8 Stunden). AGW -<br>exposure factor 2<br>TWA: 2 ppm (8 Stunden). MAK<br>TWA: 3.0 mg/m <sup>3</sup> (8 Stunden). MAK<br>Höhepunkt: 4 ppm<br>Höhepunkt: 6 mg/m <sup>3</sup> |

#### 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

Use only under a chemical fume hood. 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        |
|----------------|-------------------|-----------------|-----------------|-----------------------|
| Natural rubber | See manufacturers | -               | AS/NZS 2161     | (minimum requirement) |
| Nitrile rubber | recommendations   |                 |                 |                       |
| Neoprene       |                   |                 |                 |                       |
| PVC            |                   |                 |                 |                       |

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.

##### Skin and body protection

Long sleeved clothing

##### Respiratory Protection

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

##### Recommended Filter type:

Particulates filter conforming to EN 143 (or AUS/NZ equivalent)

##### Recommended half mask:-

Particle filtering: EN149:2001 (or AUS/NZ equivalent)

When RPE is used a face piece Fit Test should be conducted

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Provide regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes or clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wear suitable gloves and eye/face protection.

**Environmental exposure controls** No information available.

## Section 9 - Physical and Chemical Properties

### Information on basic physical and chemical properties

|  |                          |  |
|--|--------------------------|--|
| <b>Appearance</b>                              | Clear,                   |  |
| <b>Physical State</b>                          | Liquid                   |  |
| <b>Odor</b>                                    | Acrid                    |  |
| <b>Odor Threshold</b>                          | No data available        |  |
| <b>pH</b>                                      | Not applicable           |  |
| <b>Melting Point/Range</b>                     | No data available        |  |
| <b>Softening Point</b>                         | No data available        |  |
| <b>Boiling Point/Range</b>                     | Not applicable           |  |
| <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>              | 1.03 g/ml (20°C)         |  |
| <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>           |  |
| Nitric acid ...% [C ≤ 70 %]                    | -2.3                     |  |
| <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>                       | None known, based on information available   |
| <b>Stability</b>                        | Stable under recommended storage conditions.   |
| <b>Conditions to Avoid</b>              | Incompatible products, Excess heat, Exposure to air or moisture over prolonged periods.                                  |
| <b>Incompatible Materials</b>           | Strong bases, Reducing Agent, Organic materials, Aldehydes, Alcohols, Cyanides, Metals, Finely powdered metals, Ammonia. |
| <b>Hazardous Decomposition Products</b> | Nitrogen oxides (NOx). Thermal decomposition can lead to release of irritating gases and vapors.                         |

Hazardous Polymerization

Hazardous polymerization does not occur.

## 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

| Component                   | LD50 Oral               | LD50 Dermal             | LC50 Inhalation           |
|-----------------------------|-------------------------|-------------------------|---------------------------|
| Water                       | -                       | -                       | -                         |
| Nitric acid ...% [C ≤ 70 %] |                         |                         | LC50 = 2500 ppm. (Rat) 1h |
| Hydrochloric acid           | 238 - 277 mg/kg ( Rat ) | > 5010 mg/kg ( Rabbit ) | 1.68 mg/L ( Rat ) 1 h     |

(b) skin corrosion/irritation; Category 2

(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

There are no known carcinogenic chemicals in this product

(g) reproductive toxicity; No data available

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

Target Organs

No information available.

(j) aspiration hazard; No data available

Symptoms / effects, both acute and delayed No information available

## Section 12 - Ecological Information

### Ecotoxicity effects

| Component         | Freshwater Fish  | Water Flea                 | Freshwater Algae | Microtox |
|-------------------|--|----------------------------|------------------|----------|
| Hydrochloric acid | 282 mg/L LC50 96 h<br>Gambusia affinis<br>mg/L LC50 48 h<br>Leuciscus idus | 56mg/L EC50 72h<br>Daphnia | -                | -        |

### Persistence and Degradability

|                                  |   |
|----------------------------------|---|
| <b>Persistence</b>               | Soluble in water, Persistence is unlikely, based on information available, Miscible with water. |
| <b>Degradability</b>             | Not relevant for inorganic substances.  |
| <b>Bioaccumulative Potential</b> | Bioaccumulation is unlikely   |

| Component                   | log Pow | Bioconcentration factor (BCF) |
|-----------------------------|---------|-------------------------------|
| Nitric acid ...% [C ≤ 70 %] | -2.3    | No data available             |

|  |  |
|--|--|
| <b>Mobility</b>                        | 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 |
| <b>Endocrine Disruptor Information</b> | This product does not contain any known or suspected endocrine disruptors  |
| <b>Persistent Organic Pollutant</b>    | This product does not contain any known or suspected substance   |
| <b>Ozone Depletion Potential</b>       | This product does not contain any known or suspected substance   |

## Section 13 - Disposal Considerations

|  |  |
|--|--|
| <b>Waste from Residues/Unused Products</b> | 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. |
| <b>Contaminated Packaging</b>              | Dispose of this container to hazardous or special waste collection point.  |
| <b>Other Information</b>                   | 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. Solutions with low pH-value must be neutralized before discharge. Do not flush to sewer.    |

## Section 14 - Transport Information

### IMDG/IMO

|                                |   |
|--------------------------------|---|
| <b>UN-No</b>                   | UN3264                                      |
| <b>Proper Shipping Name</b>    | Corrosive liquid, acidic, inorganic, n.o.s. |
| <b>Technical Shipping Name</b> | Nitric acid, Hydrochloric acid              |
| <b>Hazard Class</b>            | 8   |
| <b>Packing Group</b>           | III   |

### ADG

|                                |   |
|--------------------------------|---|
| <b>UN-No</b>                   | UN3264                                      |
| <b>Proper Shipping Name</b>    | Corrosive liquid, acidic, inorganic, n.o.s. |
| <b>Technical Shipping Name</b> | Nitric acid, Hydrochloric acid              |
| <b>Hazard Class</b>            | 8   |
| <b>Packing Group</b>           | III   |

| Component                                      | Hazchem Code    |
|--|-----------------|
| Nitric acid ...% [C ≤ 70 %]<br>7697-37-2 ( 3 ) | 2R<br>2P<br>2PE |
| Hydrochloric acid<br>7647-01-0 ( 0.6 )         | 2RE<br>2R       |

### IATA

|                                |   |
|--------------------------------|---|
| <b>UN-No</b>                   | UN3264                                      |
| <b>Proper Shipping Name</b>    | Corrosive liquid, acidic, inorganic, n.o.s. |
| <b>Technical Shipping Name</b> | Nitric acid, Hydrochloric acid              |
| <b>Hazard Class</b>            | 8   |
| <b>Packing Group</b>           | III   |

|                        |                                 |
|------------------------|---------------------------------|
| 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.

#### 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  |
|---|---|
| Nitric acid ...% [C ≤ 70 %] - 7697-37-2 | Schedule 5 listed - except its salts and derivatives; in preparations except in preparations containing ≤0.5% of Nitric acid<br>Schedule 6 listed - except its salts and derivatives; except when included in Schedule 5, or in preparations containing ≤0.5% of Nitric acid  |
| Hydrochloric acid - 7647-01-0           | Schedule 5 listed - except its salts and derivatives; in preparations except: in preparations containing ≤0.5% of Hydrochloric acid, or for therapeutic use<br>Schedule 6 listed - except its salts and derivatives; except: when included in Schedule 5, in preparations for therapeutic use, or in preparations containing ≤0.5% of Hydrochloric acid |

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

| Component                               | Australian Industrial Chemicals Introduction Scheme (AICIS) | Additional information |
|---|---|------------------------|
| Water - 7732-18-5                       | Present   | -                      |
| Nitric acid ...% [C ≤ 70 %] - 7697-37-2 | Present   | -                      |
| Hydrochloric acid - 7647-01-0           | Present   | -                      |

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

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

#### 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  |
|---|--|--|
| Nitric acid ...% [C ≤ 70 %] - 7697-37-2 |  | Listed in Appendix A<br>Precursors to homemade explosives - concentration ≥30% |
| Hydrochloric acid - 7647-01-0           | 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   |
|---|--|
| Nitric acid ...% [C ≤ 70 %] - 7697-37-2 | 10 tonne/yr. Threshold category 1  |
| Hydrochloric acid - 7647-01-0           | 10 tonne/yr. Threshold category 1<br>400 tonne/yr. Threshold category 2a<br>1 tonne/h. Threshold category 2a<br>2000 tonne/yr. Threshold category 2b<br>60000 MWH. Threshold category 2b<br>20 MW. Threshold category 2b |

**Prohibition or notification/licensing requirements**

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

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

**International Inventories**

| Component                   | AICS | NZIoC | EINECS    | ELINCS | TSCA | DSL | NDSL | PICCS | ENCS | ISHL | IECSC | KECL     |
|-----------------------------|------|-------|-----------|--------|------|-----|------|-------|------|------|-------|----------|
| Water                       | X    | X     | 231-791-2 | -      | X    | X   | -    | X     | X    |      | X     | KE-35400 |
| Nitric acid ...% [C ≤ 70 %] | X    | X     | 231-714-2 | -      | X    | X   | -    | X     | X    | X    | X     | KE-25911 |
| Hydrochloric acid           | X    | X     | 231-595-7 | -      | X    | X   | -    | X     | X    | X    | X     | KE-20189 |

**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 |
|---|------------------------------------|--|
| Nitric acid ...% [C ≤ 70 %] - 7697-37-2 | Annex I - Y34                      | Y34 solid or solution  |
| Hydrochloric acid - 7647-01-0           | Annex I - Y34                      | Y34 solid or solution  |

| 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 |
|-----------------------------|-----------|----------|--|---|--|
| Water                       | 7732-18-5 | Listed   | Not applicable                             | Not applicable  | Not applicable   |
| Nitric acid ...% [C ≤ 70 %] | 7697-37-2 | Listed   | Not applicable                             | Not applicable  | Not applicable   |
| Hydrochloric acid           | 7647-01-0 | Listed   | Not applicable                             | 25 tonne  | 250 tonne  |

**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) |
|-----------|---|---|---|
|           |   |   |   |

|                             |   |  |   |
|-----------------------------|---|--|---|
| Nitric acid ...% [C ≤ 70 %] | - | Use restricted. See item 75.<br>(see link for restriction details) | - |
| Hydrochloric acid           | - | Use restricted. See item 75.<br>(see link for restriction details) | - |

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

## Section 16 - Other Information

### Legend

|  |  |
|--|--|
| <b>AICS</b> - Australian Inventory of Chemical Substances  | <b>NZIoC</b> - New Zealand Inventory of Chemicals  |
| <b>TSCA</b> - United States Toxic Substances Control Act Section 8(b) Inventory                      | <b>EINECS/ELINCS</b> - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances |
| <b>DSL/NDL</b> - Canadian Domestic Substances List/Non-Domestic Substances List                      | <b>ENCS</b> - Japanese Existing and New Chemical Substances  |
| <b>IECSC</b> - Chinese Inventory of Existing Chemical Substances                                     | <b>KECL</b> - Korean Existing and Evaluated Chemical Substances  |
| <b>PICCS</b> - Philippines Inventory of Chemicals and Chemical Substances                            | <b>CAS</b> - Chemical Abstracts Service  |
| <b>TWA</b> - Time Weighted Average   | <b>ACGIH</b> - American Conference of Governmental Industrial Hygienists   |
| <b>IARC</b> - International Agency for Research on Cancer  | Predicted No Effect Concentration (PNEC)   |
| <b>ICAO/IATA</b> - International Civil Aviation Organization/International Air Transport Association | <b>IMO/IMDG</b> - International Maritime Organization/International Maritime Dangerous Goods Code                            |
| <b>MARPOL</b> - International Convention for the Prevention of Pollution from Ships                  |  |
| <b>NZS 5433:2012</b> - Transport of Dangerous Goods on Land  | <b>OECD</b> - Organisation for Economic Co-operation and Development   |
| <b>LD50</b> - Lethal Dose 50%  | <b>LC50</b> - Lethal Concentration 50%   |
| <b>EC50</b> - Effective Concentration 50%  | <b>ATE</b> - Acute Toxicity Estimate   |
| <b>WEL</b> - Workplace Exposure Limit  | <b>RPE</b> - Respiratory Protective Equipment  |
| <b>DNEL</b> - Derived No Effect Level  | <b>NOEC</b> - No Observed Effect Concentration   |
| <b>POW</b> - Partition coefficient Octanol:Water   | <b>BCF</b> - Bioconcentration factor   |
| <b>vPvB</b> - very Persistent, very Bioaccumulative  | <b>PBT</b> - Persistent, Bioaccumulative, Toxic  |
| <b>VOC</b> - (Volatile Organic Compound)   |  |

### Key literature references and sources for data

<https://echa.europa.eu/information-on-chemicals>  
Suppliers safety data sheet, Chemadviser - LOLI, Merck index, RTECS

### Training Advice

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

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

**Revision Date** 20-Nov-2022  
**Revision Summary** Initial Release.

**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