**SECTION 1 – IDENTIFICATION**

<table>
<thead>
<tr>
<th>Product Name:</th>
<th>0.5M EDTA Solution Ultra Pure Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catalogue Number:</td>
<td>1052</td>
</tr>
<tr>
<td>Other means of identification:</td>
<td>Not available</td>
</tr>
</tbody>
</table>

**Recommended use of the chemical and restrictions on use:**
For R&D use only. Not for pharmaceutical, household or other uses.

**Supplier Information:**

- Axil Scientific Pte Ltd
- Apical Scientific Sdn Bhd
- 41 Science Park Road
- No 7-1 to 7-4 Jalan SP 2/7
- #04-08 The Gemini
- Taman Serdang Perdana, Seksyen 2
- Singapore Science Park II
- Seri Kembangan 43300
- Singapore 117610
- Selangor Darul Ehsan, Malaysia
- Tel: +65 6775 7318
- Tel: +603 8943 3252
- Fax: +65 6775 7211
- Fax: +603 8943 3243
- Email: info@axilscientific.com
- Email: custcare@apicalscientific.com

**Emergency phone number:**

Monday – Friday, 8:00 a.m. to 6:00 p.m.
- +65 6775 7318 (Singapore)
- +603 8943 3252 (Malaysia)

**SECTION 2 – HAZARDS IDENTIFICATION**

**GHS Classification**
Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

**Other hazards** - None

**SECTION 3 – COMPOSITION/ INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>Chemical Identity:</th>
<th>EDTA Disodium</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synonyms:</td>
<td>EDTA, Disodium Salt Dihydrate</td>
</tr>
<tr>
<td></td>
<td>Ethylenediaminetetraacetic acid disodium salt dihydrate</td>
</tr>
<tr>
<td></td>
<td>Ethanediylbis(N-(carboxymethyl)glycine) disodium salt</td>
</tr>
<tr>
<td></td>
<td>Disodium dihydrogen ethylenediaminetetraacetate</td>
</tr>
<tr>
<td></td>
<td>Versene disodium salt</td>
</tr>
<tr>
<td>Molecular Formula:</td>
<td>C_{10}H_{14}N_{2}Na_{2}O_{8}2H_{2}O</td>
</tr>
<tr>
<td>Molecular Weight:</td>
<td>372.25</td>
</tr>
<tr>
<td>CAS No.:</td>
<td>6381-92-6</td>
</tr>
<tr>
<td>EC No.:</td>
<td>205-358-3</td>
</tr>
</tbody>
</table>

**SECTION 4 – FIRST-AID MEASURES**

**Eye Contact**
Flush eyes with water as a precaution.
Skin Contact
Immediately wash skin thoroughly with soap and copious amounts of water.

Inhalation
Remove to fresh air. If not breathing, give artificial respiration or if breathing is difficult, give oxygen.

Ingestion
Never give anything by mouth to an unconscious person. Rinse mouth with water.

Most important symptoms and effects, both acute and delayed
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Indication of immediate medical attention and special treatment needed
Data not available.

SECTION 5 – FIRE-FIGHTING MEASURES

Extinguishing Media
Use water spray, CO₂, dry chemical powder or alcohol-resistant foam.

Special hazards arising from the substance or mixture
Carbon oxides, nitrogen oxides (NOₓ), Sodium oxides

Special Fire-fighting Procedures
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up
Clean up spills immediately, observing precautions in the safety data sheet and label. Dispose into a chemical waste container.

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling
Use with adequate ventilation as necessary or desired. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Follow all SDS/ label precautions. Avoid contact with skin and eyes.

Conditions for safe storage, including any incompatibilities
Store in tightly closed container in a cool, dry and well-ventilated area. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

SECTION 8 – EXPOSURE CONTROLS/ PERSONAL PROTECTION

Occupational Exposure Limits
We are not aware of any national exposure limit.
Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice.

Eye/ Face Protection
Safety glasses with side-shields tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Where contact with the eyes is likely, use chemical goggles.

Skin/ Hand Protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body protection
Impervious clothing. Type of protective equipment must be selected based on the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection
Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Do not let product enter drains.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance
   Clear colourless liquid

b) Odour
   Odourless

c) Odour Threshold
   Not available

d) pH
   7.8 – 8.2 at 25 °C

e) Melting/freezing point
   Not available

f) Initial boiling point and boiling range
   Not available
g) Flash point Not available
h) Evaporation rate Not available
i) Flammability (solid, gas) Not available
j) Upper/lower flammability or explosive limits Not available
k) Vapour pressure (mm Hg) Not available
l) Vapour density Not available
m) Relative density 1.0100g/cm³
n) Solubility (ies) Soluble
o) Partition coefficient: n-octanol/water Not available
p) Autoignition temperature Not available
q) Decomposition temperature Not available
r) Viscosity Not available

SECTION 10 – STABILITY AND REACTIVITY

Reactivity
Data not available.

Chemical stability:
Stable.

Possibility of hazardous reactions
Data not available.

Conditions to avoid
Data not available.

Incompatible materials
Strong oxidizing agents.

Hazardous decomposition products
Data not available.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity
Data not available.

Skin Corrosion/Irritation
Data not available.
**Serious Eye Damage/Eye Irritation**
Data not available.

**Respiratory or skin sensitization**
Data not available.

**Germ cell mutagenicity**
Data not available.

**Carcinogenicity**
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity**
Data not available.

**Specific target organ toxicity - single exposure**
Data not available.

**Specific target organ toxicity - repeated exposure**
Data not available.

**Aspiration hazard**
Data not available.

**Other information**
RTECS: Data not available

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### SECTION 12 – ECOLOGICAL INFORMATION

**Toxicity**
Data not available

**Persistence and degradability**
Data not available

**Bioaccumulative potential**
Data not available.

**Mobility in soil**
Data not available.

**Other adverse effect**
Data not available

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### SECTION 13 – DISPOSAL CONSIDERATIONS

**Product**
Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**
Dispose off as unused product.

**SECTION 14 – TRANSPORT INFORMATION**

**UN Number**

ADR/RID: -  
IMDG: -  
IATA-DGR: -

**UN Proper Shipping Name:**

ADR/RID: Not dangerous goods  
IMDG: Not dangerous goods  
IATA-DGR: Not dangerous goods

**Transport Hazard Class(es)**

ADR/RID: -  
IMDG: -  
IATA-DGR: -

**Packing Group**

ADR/RID: -  
IMDG: -  
IATA-DGR: -

**Environmental Hazards**

ADR/RID: no  
IMDG: marine pollutant: no  
IATA-DGR: no

**Special Precaution for Users**

Data not available

**SECTION 15 – REGULATORY INFORMATION**

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

Data not available

**SECTION 16 – OTHER INFORMATION**

Date of Issue: **JULY 11, 2008**  
Date of Revision: **MAY 01, 2017**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. Axil Scientific Pte Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.