# SAFETY DATA SHEET

**Issue Date** 3/16/2018  
**Revision Date** 4/5/2018  
**Version** 14.2

## 1. Identification

**Product Name**  WT-1000  
**Other means of identification**  Aqueous solution of Polycarboxylic acids and phosphonic acid derivative

## 2. Hazard(s) Identification

### Classification of the substance or mixture

| Acute Toxicity (oral) | Category 4  
| Skin corrosion/irritation | Category 2  
| Serious eye damage/eye irritation | Category 1  
| Corrosive to metals | Category 1

### Label elements

**Hazard symbols**

![Signal word]

**DANGER**

**Hazard statements**

- H290 May be corrosive to metals.  
- H302 Harmful if swallowed.  
- H315 Causes skin irritation  
- H318 Causes serious eye damage.  
- H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

- P234 Keep only in original container. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. 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/ doctor. P390 Absorb spillage to prevent material damage. P406 Store in corrosive resistant container with a resistant inner liner. P264 Wash face, hands and any exposed skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P321 Specific treatment (see Section 4 on the SDS). P302+P352+P332 +P313+P362 IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. P301+P330 +P314 IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. P501 Dispose of contents/container to an approved waste disposal plant.

**Contains**

- *Phosphonic acid derivative*
### 3. Composition/information on ingredients

**Mixtures**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Polycarboxylic acid</em></td>
<td><strong>10-30%</strong></td>
</tr>
<tr>
<td>CAS number: —</td>
<td></td>
</tr>
</tbody>
</table>

**Classification**

<table>
<thead>
<tr>
<th>Effect</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Met. Corr. 1</td>
<td>H290</td>
</tr>
<tr>
<td>Eye Irrit. 2A</td>
<td>H319</td>
</tr>
<tr>
<td>Aquatic Chronic 3</td>
<td>H412</td>
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</thead>
<tbody>
<tr>
<td><em>Phosphonic acid derivative</em></td>
<td><strong>1-5%</strong></td>
</tr>
<tr>
<td>CAS number: —</td>
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<td>Acute Tox. 4</td>
<td>H302</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td>H318</td>
</tr>
</tbody>
</table>

The full text for all hazard statements is displayed in Section 16.

**Confidentiality Claims**  12362

**Ingredient notes**  **The composition unit of measure is wt/wt.**

**Composition comments**  Aqueous solution containing polycarboxylic acids and a phosphonic acid derivative.

### 4. First-aid measures

**Description of first aid measures**

**Inhalation**  Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
WT-1000

Ingestion

Never give anything by mouth to an unconscious person. Do not induce vomiting. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.

Skin Contact

Immediately remove contaminated clothing. Rinse immediately with plenty of water. Continue to rinse for at least 30 minutes. Get medical attention if irritation persists after washing.

Eye contact

Immediately flush with plenty of water for up to 30 minutes. Remove any contact lenses and open eyelids widely. If irritation persist, seek medical attention and bring these instructions.

Most important symptoms and effects, both acute and delayed

Inhalation
No specific symptoms known. Upper respiratory irritation.

Ingestion
No specific symptoms known. May cause stomach pain or vomiting.

Skin contact
No specific symptoms known. Prolonged skin contact may cause redness and irritation.

Eye contact
May cause blurred vision and serious eye damage.

Indication of immediate medical attention and special treatment needed

Notes for the doctor
Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media
The product is non-combustible. Extinguish with the following media: Dry chemicals, sand, dolomite etc. Carbon dioxide (CO2). Foam. Water spray, fog or mist.

Special hazards arising from the substance or mixture

Flammability Class
No Uniform Fire Code noted.

Specific hazards

Advice for firefighters

Protective actions during firefighting
Move containers from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses.

Special protective equipment for firefighters
Leave danger zone immediately. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions
Follow precautions for safe handling described in this safety data sheet. Wear protective clothing as described in Section 8 of this safety data sheet.

Environmental precautions

Environmental precautions
Avoid release to the environment. To prevent release, place container with damaged side up.

Methods and material for containment and cleaning up

Methods for cleaning up
Avoid the spillage or runoff entering drains, sewers or watercourses. Absorb in vermiculite, dry sand or earth and place into containers. Collect spillage for reclamation or disposal in sealed containers via a licensed waste contractor. Containers with collected spillage must be properly labeled with correct contents and hazard symbol.
Reference to other sections For waste disposal, see section 13.

7. Handling and storage

Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin and eyes. Good personal hygiene procedures should be implemented.

Conditions for safe storage, including any incompatibilities

Storage precautions Store in a tightly-closed, original container in a dry, cool, and well-ventilated place. Store at temperatures not exceeding 50°C /122°F. Protect from freezing and direct sunlight. If frozen: once thawed, agitate container vigorously to ensure the product is homogeneous. Store away from the following materials; alkalis, acids, cyanides, reducing agents, oxidizing materials and aluminum. Do not use containers made of Carbon steel. Keep separate from food, feeds, fertilizers, and other sensitive materials.

Storage class Corrosive storage.

Specific end uses(s) The identified uses for this product are detailed in Section 1.

8. Exposure controls/Personal protection

Ingredient comments No exposure limits known for ingredient(s).

Exposure controls

Appropriate engineering controls Provide adequate general and local exhaust ventilation.

Eye/face protection The following protection should be worn: Chemical splash goggles. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Full face visor or shield.

Hand protection Selection of a suitable glove depends on work conditions and whether the product is present on its own or in combination with other substances. Wear protective gloves made of the following material: Neoprene. Nitrile rubber. Polyethylene. Polyvinyl chloride (PVC). It should be noted that liquid may penetrate the gloves. Frequent changes are recommended.

Other skin and body protection Wear appropriate clothing to prevent repeated or prolonged skin contact. Wear apron or protective clothing in case of contact.

Hygiene measures Provide eyewash station. No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.

Respiratory protection No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance Liquid.

Color Light (or pale). Yellow.
WT-1000

Odor
Slightly acidic odor

Odor threshold
Not available.

pH
pH (concentrated solution): <2

Melting point
< -5°C

Initial boiling point and range
100 - 102 @°C @ 760 mm Hg

Boiling Point:

Flash point
Not applicable.

Evaporation rate
Not available.

Upper/lower flammability or explosive limits
Not applicable.

Vapor pressure
Not available.

Relative density
1.14 - 1.17 @ @ 20°C

Solubility(ies)
Miscible with water.

Partition coefficient
log Pow: < 0

Auto-ignition temperature
Not applicable.

Decomposition Temperature
Not available.

Viscosity
9 - 15 cSt @ 25°C

Oxidizing properties
Does not meet the criteria for classification as oxidizing.

Other information
Not available.

10. Stability and reactivity

Reactivity
Reacts with alkalis and generates heat.

Stability
Stable at normal ambient temperatures and when used as recommended.

Possibility of hazardous reactions
Will not polymerize.

Conditions to avoid
Avoid excessive heat for prolonged periods of time.

Materials to avoid

Hazardous decomposition products

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg)
2,400.0

Species
Rat
WT-1000

ATE oral (mg/kg) 11,111.11

Skin corrosion/irritation Based on available data the classification criteria are not met. OECD404 Not irritating.

Serious eye damage/irritation Causes serious eye damage. OECD 405

Respiratory sensitization No information available.

Skin sensitization Based on available data the classification criteria are not met.

Germ cell mutagenicity Based on available data the classification criteria are not met.

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity No specific test data are available. Does not contain any substances known to be carcinogenic.

Reproductive toxicity No specific test data are available. Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure Data lacking.

Specific target organ toxicity - repeated exposure Data lacking.

Aspiration hazard Not anticipated to present an aspiration hazard, based on chemical structure.

12. Ecological information

Ecotoxicity The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: > 1000 mg/l, Scophthalmus maximus (juvenile Turbot)
LC50, 96 hours: >1000 mg/l, Fish
LC50, 96 hours: 695 mg/L, Fathead minnow

Acute toxicity - aquatic invertebrates EC50, 48 hours: > 1000 mg/l, Daphnia magna
EC50, 48 hours: >1000 mg/l, Daphnia magna
LC50, 48 hours: 707 mg/L, C. dubia (daphnia)

Acute toxicity - aquatic plants IC50, 72 hours: > 100 mg/l, Marinewater algae
IC50, 72 hours: >100 mg/l, Algae

Persistence and degradability The product is not readily biodegradable.

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

Partition coefficient log Pow: < 0
WT-1000

Mobility in soil
Mobility
The product is miscible with water. May spread in water systems.

Other adverse effects
Not available.

13. Disposal considerations

Waste treatment methods
General information
When handling waste, the safety precautions applying to handling of the product should be considered.

Disposal methods
Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste via a licensed waste disposal contractor. Liquid material should be incinerated. Material absorbed onto sand or earth should be disposed of as solid waste in accordance with local regulations. Empty packaging may contain product residues and due consideration should be given prior to disposal.

14. Transport information

UN Number

| UN No. (TDG) | 3265 |
| UN No. (IMDG) | 3265 |
| UN No. (ICAO) | 3265 |
| UN No. (DOT) | 3265 |

UN proper shipping name

| Proper shipping name (TDG) | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., (Contains polycarboxylic acids and a phosphonic acid.) |
| Proper shipping name (IMDG) | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., (Contains polycarboxylic acids and a phosphonic acid.) |
| Proper shipping name (ICAO) | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., (Contains polycarboxylic acids and a phosphonic acid.) |
| Proper shipping name (DOT) | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., (Contains polycarboxylic acids and a phosphonic acid.) |

Transport hazard class(es)

| TDG class | 8 |
| TDG label(s) | CORROSIVE |
| IMDG Class | 8 |
| ICAO class/division | 8 |

Transport labels

Packing group

| TDG Packing Group | III |
| IMDG packing group | III |
WT-1000

ICAO packing group III
DOT packing group III

Environmental hazards
Environmentally Hazardous Substance No.

Special precautions for user
IMDG Code segregation group 1. Acids
EmS F-A, S-B

Classification Code (Adr) C3

15. Regulatory information

US Federal Regulations
SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities
None of the ingredients are listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)
None of the ingredients are listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities
None of the ingredients are listed.

SARA 313 Emission Reporting
None of the ingredients are listed.

CAA Accidental Release Prevention
None of the ingredients are listed.

US State Regulations
California Proposition 65 Carcinogens and Reproductive Toxins
None of the ingredients are listed.

California Air Toxics "Hot Spots" (A-I)
None of the ingredients are listed.

California Air Toxics "Hot Spots" (A-II)
None of the ingredients are listed.

Massachusetts "Right To Know" List
The following ingredients are listed:
*Phosphonic acid derivative

Rhode Island "Right To Know" List
The following ingredients are listed:
*Phosphonic acid derivative

Minnesota "Right To Know" List
The following ingredients are listed:
*Phosphonic acid derivative
WT-1000

New Jersey "Right To Know" List
The following ingredients are listed:
*Phosphonic acid derivative

Pennsylvania "Right To Know" List
The following ingredients are listed:
*Phosphonic acid derivative

Inventories
EU - EINECS/ELINCS
All the ingredients are listed or exempt.

Canada - DSL/NDSL
All the ingredients are listed or exempt.

US - TSCA
All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification
None of the ingredients are listed.

Australia - AICS
All the ingredients are listed or exempt.

Japan - ENCS
All the ingredients are listed or exempt.

JAPAN- IHSL

Japan MITI

Korea - KECI
All the ingredients are listed or exempt.

China - IECSC
All the ingredients are listed or exempt.

Philippines - PICCS
All the ingredients are listed or exempt.

New Zealand - NZIOC
All the ingredients are listed or exempt.

Taiwan -TCSI

16. Other information

General information
WT-1000 is certified by NSF International for use as an antiscalant in reverse osmosis plants. The maximum approved dose level is 5 mg/l in the feedwater. Classified as corrosive class 8 for transportation on the basis of its effect on mild steel and/or aluminium.
WT-1000

Revision comments
14. Taiwanese inventory information added 14.1 Section 11 revised 14.2 WGK classification added to DE language version 14.3_ Added the word Dispersal in Section 1.2 Identified Uses

Issued by
Imt

Revision date
4/5/2018

Revision
14.2

Supersedes date
3/16/2018

SDS No.
10309

Hazard statements in full
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

NFPA - health hazard
Temporary incapacitation, injury. (2)

NFPA - flammability hazard
Will not burn. (0)

NFPA - instability hazard
Normally stable. (0)

NFPA - special hazard
N/A

ACA HMIS Health rating.
Moderate Hazard. (2)

ACA HMIS Flammability rating.
Will not burn. (0)

NSF/ANSI Standard 60
Reverse osmosis antiscalant. Maximum dose 5 mg/L

ACA HMIS Physical hazard rating.
Normally stable. (0)

ACA HMIS Personal protection rating.
D

For safety reasons it is IMPERATIVE that customers:-

1. Ensure that all those within their control who use the products are supplied with all relevant information contained within the Safety Data Sheet and Technical Bulletin concerning the applications for which the product is designed and any instructions and warnings contained therein.

2. Consult Anderson Chemical Company before using or supplying the product for any other applications. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.

10/10