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Version 14.5

**1. Identification****Product Name** WT-1000**Other means of identification****Synonyms** Aqueous solution of Polycarboxylic acids and phosphonic acid derivative**Recommended use of the chemical and restrictions on use****Recommended Use** Antiscalant / Dispersant  
**Uses advised against** No information available**Manufacturer Address**

Anderson Chemical Company, 325 South Davis Avenue, Litchfield, MN 55355 (320-693-2477)

**Emergency telephone number**

Chemtrec 1-800-424-9300

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification (EC 1272/2008)****Physical hazards** Met. Corr. 1 - H290**Health hazards** Eye Dam. 1 - H318**Environmental hazards** Not Classified**2.2. Label elements****Hazard pictograms****Signal word** Danger**Hazard statements** H318 Causes serious eye damage.  
H290 May be corrosive to metals.

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<b>Precautionary statements</b>	<p>P234 Keep only in original packaging.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310 Immediately call a POISON CENTER/ doctor.</p> <p>P390 Absorb spillage to prevent material damage.</p> <p>P406 Store in a corrosion-resistant container with a resistant inner liner.</p>
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<b>Contains</b>	Phosphonic acid derivative
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**2.3. Other hazards****SECTION 3: Composition/information on ingredients****3.2. Mixtures**

<b>Polycarboxylic acid</b>	<b>10-30%</b>
CAS number: —	

**Classification**

Met. Corr. 1 - H290  
 Eye Irrit. 2 - H319  
 Aquatic Chronic 3 - H412

<b>Polycarboxylic acid</b>	<b>10-30%</b>
CAS number: —	

**Classification**

Met. Corr. 1 - H290  
 Skin Irrit. 2 - H315  
 Eye Irrit. 2 - H319

<b>Phosphonic acid derivative</b>	<b>1-5%</b>
CAS number: —	

**Classification**

Met. Corr. 1 - H290  
 Acute Tox. 4 - H302  
 Eye Dam. 1 - H318

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

<b>Confidentiality Claims</b>	12362
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<b>Composition comments</b>	Aqueous solution containing polycarboxylic acids and a phosphonic acid derivative.
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**SECTION 4: First aid measures****4.1. Description of first aid measures**

<b>Inhalation</b>	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.
<b>Ingestion</b>	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.

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**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 persists, seek medical attention and bring these instructions.

### **4.2. 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.

### **4.3. Indication of any immediate medical attention and special treatment needed**

**Notes for the doctor** Treat symptomatically.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

**Suitable extinguishing media** The product is non-combustible. Extinguish with the following media: Dry chemicals, sand, dolomite etc. Carbon dioxide (CO<sub>2</sub>). Foam. Water spray, fog or mist.

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

**Specific hazards** Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Oxides of the following substances: Nitrogen. Phosphorus. Sulphur. No unusual fire or explosion hazards noted.

### **5.3. 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.

## **SECTION 6: Accidental release measures**

### **6.1. 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.

### **6.2. Environmental precautions**

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

### **6.3. 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 labelled with correct contents and hazard symbol.

### **6.4. Reference to other sections**

**Reference to other sections** For waste disposal, see section 13.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

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

### 7.2. 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.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

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

### 8.2. Exposure controls

#### Protective equipment



**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.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Appearance** Liquid.

**Colour** Light (or pale). Yellow.

**Odour** Slightly acidic odour

**Odour threshold** Not available.

**pH** pH (concentrated solution): <2

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<b>Melting point</b>	< -5°C
<b>Initial boiling point and range</b>	100 - 102 @°C @ 760 mm Hg
<b>Boiling Point:</b>	
<b>Freezing Point:</b>	
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	Not applicable.
<b>Vapour pressure</b>	Not available.
<b>Relative density</b>	1.14 - 1.17 @ @ 20°C
<b>Solubility(ies)</b>	Miscible with water.
<b>Partition coefficient</b>	log Pow: < 0
<b>Auto-ignition temperature</b>	Not applicable.
<b>Decomposition Temperature</b>	Not available.
<b>Viscosity</b>	9 - 15 cSt @ 25°C
<b>Oxidising properties</b>	Does not meet the criteria for classification as oxidising.

**9.2. Other information**

**Other information** Not available.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

**Reactivity** Reacts with alkalis and generates heat.

**10.2. Chemical stability**

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

**10.3. Possibility of hazardous reactions**

**Possibility of hazardous reactions** Will not polymerise.

**10.4. Conditions to avoid**

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

**10.5. Incompatible materials**

**Materials to avoid** Strong alkalis. Strong oxidising agents. Strong reducing agents. Chemically-active metals.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Oxides of the following substances: Nitrogen. Phosphorus. Sulphur.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity - oral**

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 2,400.0

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<b>Species</b>	Rat
<b>ATE oral (mg/kg)</b>	11,111.11
<b><u>Skin corrosion/irritation</u></b>	
<b>Skin corrosion/irritation</b>	Based on available data the classification criteria are not met. OECD404 Not irritating.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Causes serious eye damage. OECD 405
<b><u>Respiratory sensitisation</u></b>	
<b>Respiratory sensitisation</b>	No information available.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Based on available data the classification criteria are not met.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Based on available data the classification criteria are not met.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	No specific test data are available. Does not contain any substances known to be carcinogenic.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	No specific test data are available. Does not contain any substances known to be toxic to reproduction.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	Data lacking.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	Data lacking.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	Not anticipated to present an aspiration hazard, based on chemical structure.

**SECTION 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.

**12.1. Toxicity****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

**12.2. Persistence and degradability**

**Persistence and degradability** The product is not readily biodegradable.

**12.3. Bioaccumulative potential**

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

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**Partition coefficient** log Pow: < 0

**12.4. Mobility in soil**

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

**12.5. Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

**12.6. Other adverse effects**

**Other adverse effects** Not available.

**SECTION 13: Disposal considerations****13.1. 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.

**SECTION 14: Transport information****14.1. UN number**

**UN No. (ADR/RID)** 3265

**UN No. (IMDG)** 3265

**UN No. (ICAO)** 3265

**14.2. UN proper shipping name**

**Proper shipping name (ADR/RID)** 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 (ADN)** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., (Contains polycarboxylic acids and a phosphonic acid.)

**14.3. Transport hazard class(es)**

**ADR/RID class** 8

**IMDG class** 8

**ICAO class/division** 8

**Transport labels****14.4. Packing group**

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ADR/RID packing group III

IMDG packing group III

ICAO packing group III

**14.5. Environmental hazards****Environmentally hazardous substance/marine pollutant**

No.

**14.6. Special precautions for user**

IMDG Code segregation group 1. Acids

EmS F-A, S-B

Emergency Action Code 2X

Tunnel restriction code (E)

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**

Classification Code (Adr) C3

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU legislation** Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).  
 Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

**15.2. Chemical safety assessment**

Polymeric materials are exempt under Article II of REACH (EC No 1907/2006). Currently Chemical Safety Assessments or Exposure Scenarios are not required.

**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**

**WT-1000****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**

All the ingredients are listed or exempt.

**SECTION 16: Other information**

**General information** WT-1000 is certified by UL LLC 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.

**NSF/ANSI Standard 60  
Drinking Water Treatment Additives 68GA** Reverse osmosis antiscalant. Maximum dose 5 mg/L

<b>Revision comments</b>	Updated SDS, no substantial changes.
<b>Issued by</b>	lmt
<b>Revision date</b>	10/13/2021
<b>Revision</b>	14.5
<b>Supersedes date</b>	09/04/2020
<b>SDS number</b>	10309
<b>Hazard statements in full</b>	H290 May be corrosive to metals. H318 Causes serious eye damage.

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.