

# SIMPLE CLEAN Electronic Cell Cleaner

## Safety Data Sheet AEC81XX

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : SIMPLE CLEAN Electronic Cell Cleaner  
Product code : AEC81XX-002-001

#### 1.2. Recommended use and restrictions on use

No additional information available

#### 1.3. Supplier

Air Quality Engineering, Inc.  
7140 Northland Drive North  
Minneapolis - MN, 55428-1520 - USA  
T 763-531-9823 www.air-quality-eng.com

#### 1.4. Emergency telephone number

Emergency number : LEAK, FIRE OR MEDICAL EMERGENCY CALLS: INFOTRAC-1-800-535-5053 (24/7/365)

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Eye Dam. 1 H318 Causes serious eye damage

Full text of hazard classes and H-statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger  
Hazard statements (GHS US) : H318 - Causes serious eye damage  
Precautionary statements (GHS US) : P280 - Wear eye protection, face protection, protective clothing, protective gloves.  
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 doctor, a POISON CENTER

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

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Name	Common Name (Synonyms)	Product identifier	%	GHS-US classification
Sodium Carbonate	anhydrous soda / ash / bisodium carbonate / calcined soda(=sodium carbonate) / carbonic acid disodium salt / carbonic acid sodium salt / CASWELL NO. 752 / chrystal carbonate / crystal carbonate (=sodium carbonate) / natural ash / Na-X / snowlite 1 / soda (=sodium carbonate) / soda ash / soda, crystals / sodium carbonate / sodium carbonate, anhydrous / sodium carbonate, anhydrous ASTM D458 / sodium carbonate, anhydrous GE materials D4D5 / sodium carbonate, anhydrous powder / sodium carbonate, crude / sodium carbonate, granular / Solvay soda / synthetic ash / washing soda (=sodiumcarbonate)	(CAS-No.) 497-19-8	5 - 10	Acute Tox. 4 (Inhalation:dust,mist), H332

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tetrasodium salt / acetic acid, (ethylenedinitrilo)tetra-, tetrasodium salt / AQUAMOLINE BC / AQUAMOLLIN / CALSOL / CELON E(=EDTA tetrasodium) / CELON H(=EDTA tetrasodium) / CELON IS / CHEELOX BF / CHEELOX BF-12 / CHEELOX BF-13 / CHEELOX BF-78 / CHEELOX BR-33 / CHELON 100 / CHEMCOLOX 200 / CHEMCOLOX 240 powder / COMPLEXONE / CONIGON BC / DETAREX 100 / DETAREX 108 / DISTOL / DISTOL 8(=EDTA tetrasodium) / edathanil tetrasodium / edetate sodium / edetic acid tetrasodium salt / EDTA tetrasodium / EDTA tetrasodium salt / EDTA, sodium salt / endrate tetrasodium / ERGON / ethylenebis(iminodiacetic acid) tetrasodium salt / ethylenediaminetetraacetate tetrasodium salt / ethylenediaminetetraacetic acid, tetrasodium salt / glycine, N,N'-1,2-ethanediybis(N-(carboxymethyl)-, tetrasodium salt / HAMP-ENE 100 / HAMP-ENE 215 / HAMP-ENE 220 / HAMP-ENE Na4 / IRGALON(=EDTA tetrasodium) / KALEX / KEMPLEX 100 / KOMPLEXON / METAQUEST C / N,N'-1,2-ethanediybis(N-(carboxymethyl)glycine) tetrasodium salt / N,N'-1,2-ethanediybis(N-(carboxymethyl)glycine)tetrasodium salt / N,N'-ethylenediaminediacetic acid tetrasodium salt / NERVANAID B / NERVANAID B liquid / NERVANID B / NULLAPON / NULLAPON B / NULLAPON BF-12 / NULLAPON BF-78 / NULLAPON BFC / NULLAPON BFC conc / NULLAPON BFC conc beads / NULLAPON BFC liquid / NULLAPON(=EDTA tetrasodium) / PERMA KLEER 100 / PERMA KLEER 50 crystals / PERMA KLEER TETRA CP / QUESTEX 4 / QUESTEX(=EDTA tetrasodium) / SEQUESTRENE 30A / SEQUESTRENE Na 4 / SEQUESTRENE ST / SEQUESTRENE(=EDTA tetrasodium) / sodium edetate / sodium EDTA / sodium ethylenediaminetetraacetate / sodium ethylenediaminetetraacetic acid / sodium salt of ethylenediaminetetraacetic acid / SYNTES 12A(=EDTA tetrasodium) / SYNTRON B / tetracemate tetrasodium / TETRACEMIN(=EDTA tetrasodium) / tetrasodium (ethylenedinitrilo)tetraacetate / tetrasodium edetate / tetrasodium EDTA / tetrasodium ethylenediamine-N,N,N',N'-tetraacetate / tetrasodium ethylenediaminetetraacetate / tetrasodium salt EDTA / tetrasodium salt of EDTA / tetrasodium salt of ethylenediamine tetra acetic acid /

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Name	Common Name (Synonyms)	Product identifier	%	GHS-US classification
Citric Acid	1,2,3-propanetricarboxylic acid, 2-hydroxy- / 1,2,3-propanetricarboxylic acid, 2-hydroxy-, anhydrous / 2-hydroxy-1,2,3-propanetricarboxylic acid / 2-hydroxy-1,2,3-propanetricarboxylic acid / 2-hydroxy-1,2,3-propanetricarboxylic acid, anhydrous / aciletten / anhydrous citric acid / beta-hydroxytricarballic acid / beta-hydroxytricarballic acid, anhydrous / beta-hydroxytricarboxylic acid / citretten / citric acid / citric acid anhydrous fine granular 16/40 / citric acid anhydrous granular / citric acid anhydrous granular 5N / citric acid anhydrous medium granular / citric acid anhydrous powder / citro / citroenzuur, anhydraat / E 330 / E330 / FEMA no 2306 / hydroxytricarballic acid / MC-1, acidic membrane cleaner / NSC 30279	(CAS-No.) 77-92-9	3 - 5	Eye Irrit. 2A, H319
Tetrasodium Pyrophosphate (Tsp)	anhydrous tetrasodium pyrophosphate / diphosphoric acid tetrasodium salt / Diphosphoric acid, tetrasodium salt / E450a(III) / N 24-30 / phosphosol / phosphotex / pyro (=tetrasodium pyrophosphate) / pyrophosphate / pyrophosphoric acid, tetrasodium salt / sodium diphosphate / sodium pyrophosphate / Tetranatrium diphosphat / tetrasodium diphosphate / tetrasodium pyrophosphate / tetrasodium pyrophosphate, anhydrous / tetrasodium pyrophosphate, anhydrous / TSPP / Victor TSPP	(CAS-No.) 7722-88-5	1 - 3	Acute Tox. 4 (Oral), H302

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects (acute and delayed)

- Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.
- Symptoms/effects after eye contact : Causes serious eye damage.

#### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Specific hazards arising from the chemical

No additional information available

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### 5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
- Hygiene measures : Wash hands, forearms and face thoroughly after handling.

### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Tetrasodium Ethylenediaminetetraacetate (64-02-8)

Not applicable

#### Sodium Carbonate (497-19-8)

Not applicable

#### Tetrasodium Pyrophosphate (Tsp) (7722-88-5)

Not applicable

#### Citric Acid (77-92-9)

Not applicable

### 8.2. Appropriate engineering controls

No additional information available

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

#### Hand protection:

Wear protective gloves.

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### Eye protection:

Chemical goggles or safety glasses

### Respiratory protection:

Wear appropriate mask

### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

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

Physical state	: Solid
Color	: Colorless
Odor	: characteristic
Odor threshold	: No data available
pH	: No data available
pH solution	: 9.2 (2%)
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

<b>Tetrasodium Ethylenediaminetetraacetate (64-02-8)</b>	
LD50 oral rat	> 2000 mg/kg (Rat, Oral)

<b>Sodium Carbonate (497-19-8)</b>	
LD50 oral rat	2800 mg/kg (Rat, Male/female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 2000 mg/kg (16 CFR 1500. 40, 24 h, Rabbit, Experimental value, Dermal)
LC50 inhalation rat (mg/l)	2.3 mg/l (2 h, Rat, Male, Experimental value, Inhalation (aerosol))
ATE US (oral)	2800 mg/kg body weight
ATE US (vapors)	2.3 mg/l/4h
ATE US (dust, mist)	2.3 mg/l/4h

<b>Tetrasodium Pyrophosphate (Tspp) (7722-88-5)</b>	
LD50 oral rat	300 - 2000 mg/kg body weight (OECD 420: Acute Oral toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral)
ATE US (oral)	300 mg/kg body weight

<b>Citric Acid (77-92-9)</b>	
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male/female, Experimental value, Dermal)

Skin corrosion/irritation : Not classified  
Serious eye damage/irritation : Causes serious eye damage.  
Respiratory or skin sensitization : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified

Reproductive toxicity : Not classified  
Specific target organ toxicity – single exposure : Not classified

Specific target organ toxicity – repeated exposure : Not classified

Aspiration hazard : Not classified  
Viscosity, kinematic : No data available

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Symptoms/effects after eye contact : Causes serious eye damage.

### SECTION 12: Ecological information

#### 12.1. Toxicity

<b>Tetrasodium Ethylenediaminetetraacetate (64-02-8)</b>	
LC50 fish 1	121 mg/l (96 h, Lepomis macrochirus, Literature study, Soft water)
EC50 Daphnia 1	625 mg/l (24 h, Daphnia magna, Literature study)

<b>Sodium Carbonate (497-19-8)</b>	
LC50 fish 1	300 mg/l (Other, 96 h, Lepomis macrochirus, Static system, Fresh water, Experimental value)
EC50 Daphnia 1	200 - 227 mg/l (Other, 48 h, Ceriodaphnia sp., Semi-static system, Fresh water, Experimental value)

<b>Tetrasodium Pyrophosphate (Tspp) (7722-88-5)</b>	
LC50 fish 1	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Read-across, GLP)
EC50 Daphnia 1	> 100 mg/l (EPA OTS 797.1300, 48 h, Daphnia magna, Static system, Fresh water, Read-across, GLP)

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<b>Tetrasodium Pyrophosphate (Tsp) (7722-88-5)</b>	
ErC50 (algae)	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Read-across, GLP)

<b>Citric Acid (77-92-9)</b>	
LC50 fish 1	440 - 760 mg/l (Equivalent or similar to OECD 203, 48 h, Leuciscus idus, Static system, Fresh water, Experimental value, Nominal concentration)

### 12.2. Persistence and degradability

<b>EC-81</b>	
Persistence and degradability	Not established.

<b>Tetrasodium Ethylenediaminetetraacetate (64-02-8)</b>	
Persistence and degradability	Not readily biodegradable in water.
Biochemical oxygen demand (BOD)	< 0.002 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	0.54 - 0.58 g O <sub>2</sub> /g substance

<b>Sodium Carbonate (497-19-8)</b>	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable (inorganic)
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

<b>Tetrasodium Pyrophosphate (Tsp) (7722-88-5)</b>	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

<b>Citric Acid (77-92-9)</b>	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.42 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	0.728 g O <sub>2</sub> /g substance
ThOD	0.686 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.89 (20 day(s), Literature study)

### 12.3. Bioaccumulative potential

<b>EC-81</b>	
Bioaccumulative potential	Not established.

<b>Tetrasodium Ethylenediaminetetraacetate (64-02-8)</b>	
Log Pow	-2.6
Bioaccumulative potential	Not bioaccumulative.

<b>Sodium Carbonate (497-19-8)</b>	
Log Pow	-6.19 (Estimated value)
Bioaccumulative potential	Not bioaccumulative.

<b>Tetrasodium Pyrophosphate (Tsp) (7722-88-5)</b>	
Bioaccumulative potential	No bioaccumulation data available.

<b>Citric Acid (77-92-9)</b>	
BCF other aquatic organisms 1	3.2 (Other, Calculated value)
Log Pow	-1.8 - -1.55 (Experimental value)
Bioaccumulative potential	Not bioaccumulative.

### 12.4. Mobility in soil



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<b>Sodium Carbonate (497-19-8)</b>	
Ecology - soil	Low potential for adsorption in soil.
<b>Tetrasodium Pyrophosphate (Tsp) (7722-88-5)</b>	
Log Koc	2.17 (log Koc, Experimental value)
Ecology - soil	Low potential for adsorption in soil.
<b>Citric Acid (77-92-9)</b>	
Ecology - soil	No (test) data on mobility of the substance available.

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Not regulated

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

<b>Tetrasodium Ethylenediaminetetraacetate (64-02-8)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>Sodium Carbonate (497-19-8)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>Tetrasodium Pyrophosphate (Tsp) (7722-88-5)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>Citric Acid (77-92-9)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

#### National regulations

No additional information available

### 15.3. US State regulations

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Component	State or local regulations
Tetrasodium Pyrophosphate (Tsp)(7722-88-5)	U.S. - New Jersey - Right to Know Hazardous Substance List

### SECTION 16: Other information

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Revision date : 07/25/2019

Other information : None.

Full text of H-phrases:

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
H302	Harmful if swallowed
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled

SDS US (GHS HazCom 2012)

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