

# Total Cell Cleaner

## Safety Data Sheet AQ1245N

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
Date of issue: 04/13/2015 Revision date: 03/09/2016 Supersedes: 01/12/2016

Version: 2.1

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : Total Cell Cleaner  
Product code : AQ1245N-055-001

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Air Quality Engineering, Inc 13505  
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

Skin corrosion/irritation H314  
Category 1A  
Serious eye  
damage/eye irritation H318  
Category 1

Full text of H statements : see section 16

#### 2.2. Label elements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



GHS05

Signal word (GHS-US) : Danger  
Contains : Sodium Hydroxide; Sodium Carbonate; Sodium Metasilicate  
Hazard statements (GHS-US) : H314 - Causes severe skin burns and eye damage  
Precautionary statements (GHS-US) : P260 - Do not breathe dust/fume/gas/mist/vapors/spray  
P264 - Wash hands, forearms and face thoroughly after handling  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting  
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing  
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/...  
P321 - Specific treatment (see ... on SDS)  
P363 - Wash contaminated clothing before reuse  
P405 - Store locked up  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

#### 2.3. Other hazards

No additional information available

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

Not applicable

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### SECTION 3: Composition/Information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
Sodium Metasilicate	(CAS No) 6834-92-0	3 - 5	Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335
Tetrasodium 1-Hydroxyethylidenediphosphonate	(CAS No) 3794-83-0	3 - 5	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319
Sodium Carbonate	(CAS No) 497-19-8	1 - 3	Skin Corr. 1A, H314 Eye Dam. 1, H318
Ethox. Cocoalkylmethyl Quat. Ammon. Chlo	(CAS No) 61791-10-4	1 - 3	Eye Dam. 1, H318
Poly(Oxy-1,2-Ethanediy), A-Undecyl-W-Hy	(CAS No) 34398-01-1	1 - 3	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318

Full text of H-phrases: 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	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician.
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. Immediately call a poison center or doctor/physician.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries	: Causes severe skin burns and eye damage.
Symptoms/injuries after eye contact	: Causes serious eye damage.

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

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. 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. Special hazards arising from the substance or mixture

Reactivity	: Thermal decomposition generates : Corrosive vapors.
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#### 5.3. Advice for firefighters

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.
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##### 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.

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

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. 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. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact during pregnancy/while nursing.

Hygiene measures : Wash hands, forearms and face thoroughly after handling.

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

Technical measures : Comply with applicable regulations.

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

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

Not applicable

#### Sodium Metasilicate (6834-92-0)

Not applicable

#### Ethox. Cocoalkylmethyl Quat. Ammon. Chlo (61791-10-4)

Not applicable

#### Poly(Oxy-1,2-Ethanediy), A-Undecyl-W-Hy (34398-01-1)

Not applicable

#### Tetrasodium 1-Hydroxyethylidenediphosphonate (3794-83-0)

Not applicable

### 8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or face shield.

Skin and body protection : Wear suitable protective clothing.

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 : Liquid

Appearance : Yellow liquid.

Color : Colorless

Odor : characteristic

Odor threshold : No data available

pH : 12.6

pH solution : 11.5 @ 5%

Melting point : No data available

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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)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: 1.099
Relative vapor density at 20 °C	: No data available
Solubility	: Water: Solubility in water of component(s) of the mixture : •: 42 g/100ml •: 103 g/100ml •: 66 g/100ml •: 22 g/100ml •: > 18 g/100ml •: Complete
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Thermal decomposition generates : Corrosive vapors.

### 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. Thermal decomposition generates : Corrosive vapors.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

<b>Sodium Carbonate (497-19-8)</b>	
LD50 oral rat	2800 mg/kg (Rat; Experimental value)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Experimental value)
ATE US (oral)	2800.000 mg/kg body weight
<b>Sodium Metasilicate (6834-92-0)</b>	
LD50 dermal rat	> 5000 mg/kg body weight (Rat; Read-across; OECD 402: Acute Dermal Toxicity)
<b>Ethox. Cocoalkylmethyl Quat. Ammon. Chlo (61791-10-4)</b>	
LD50 oral rat	> 2000 mg/kg
<b>Poly(Oxy-1,2-Ethanediy), A-Undecyl-W-Hy (34398-01-1)</b>	
LD50 oral rat	700 - 1700 mg/kg
LD50 dermal rat	> 2000 mg/kg

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<b>Poly(Oxy-1,2-EthanediyI), A-Undecyl-W-Hy (34398-01-1)</b>	
ATE US (oral)	700.000 mg/kg body weight
<b>Tetrasodium 1-Hydroxyethylidenediphosphonate (3794-83-0)</b>	
LD50 oral rat	940 mg/kg
LD50 dermal rabbit	> 1650 mg/kg
ATE US (oral)	940.000 mg/kg body weight
Skin corrosion/irritation	: Causes severe skin burns and eye damage. pH: 12.6
Serious eye damage/irritation	: Causes serious eye damage. pH: 12.6
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
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after eye contact	: Causes serious eye damage.

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>Sodium Carbonate (497-19-8)</b>	
LC50 fish 1	300 mg/l (LC50; Other; 96 h; Lepomis macrochirus; Static system; Fresh water; Experimental value)
Threshold limit algae 1	242 mg/l (EC50; 5 days; Algae)
<b>Sodium Metasilicate (6834-92-0)</b>	
LC50 fish 1	210 mg/l (LC50; Equivalent or similar to OECD 203; 96 h; Brachydanio rerio; Semi-static system; Fresh water; Experimental value)
Threshold limit algae 1	207 mg/l (EC50; DIN 38412-9; 72 h; Scenedesmus subspicatus; Fresh water)
<b>Ethox. Cocoalkylmethyl Quat. Ammon. Chlo (61791-10-4)</b>	
LC50 fish 1	10 - 20 mg/l
ErC50 (algae)	1 - 5 mg/l
<b>Poly(Oxy-1,2-EthanediyI), A-Undecyl-W-Hy (34398-01-1)</b>	
LC50 fish 1	1 - 10 mg/l Fathead Minnow
EC50 Daphnia 1	1 - 10 mg/l Daphnia magna
ErC50 (algae)	1 - 10 mg/l
<b>Tetrasodium 1-Hydroxyethylidenediphosphonate (3794-83-0)</b>	
ErC50 (algae)	13 mg/l 336 hr

### 12.2. Persistence and degradability

<b>Total Cleaner</b>	
Persistence and degradability	Not established.
<b>Sodium Carbonate (497-19-8)</b>	
Persistence and degradability	Biodegradability: not applicable. Low potential for adsorption in soil.
ThOD	Not applicable (inorganic)
<b>Sodium Metasilicate (6834-92-0)</b>	
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the substance available.

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<b>Sodium Metasilicate (6834-92-0)</b>	
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable

### 12.3. Bioaccumulative potential

<b>Total Cleaner</b>	
Bioaccumulative potential	Not established.

<b>Sodium Carbonate (497-19-8)</b>	
Log Pow	-6.19 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

<b>Sodium Metasilicate (6834-92-0)</b>	
Bioaccumulative potential	Bioaccumulation: not applicable.

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste 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 for transport

### TDG

No additional information available

### Transport by sea

No additional information available

### Air transport

No additional information available

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

<b>Sodium Carbonate (497-19-8)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory

<b>Sodium Metasilicate (6834-92-0)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory

<b>Ethox. Cocoalkylmethyl Quat. Ammon. Chlo (61791-10-4)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory

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### 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

#### Tetrasodium 1-Hydroxyethylidenediphosphonate (3794-83-0)

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

U.S. - New Jersey - Right to Know Hazardous Substance List

## SECTION 16: Other information

Revision date : 03/09/2016

Other information : None.

Full text of H-phrases:

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation

SDS US (GHS HazCom 2012)

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