# **SAFETY DATA SHEET**



Container Size:

Up to 32 fl. oz. (946 mL)

Larger than 32 fl. oz. (946 mL)

All Sizes

SPECIFIC HAZARD OXIDIZER ACID ALKALI CORROSIVE Use NO WATER RADIATION

NFPA National Fire Protection Association (U.S.A.)		HEALTH HAZARD EXTREME SERIOUS MODERATE SLIGHT SLIGHT	EXTREME     SERIOUS     MODERATE     SLIGHT	INSTABILITY HAZARD C EXTREME C SERIOUS C MODERATE C SLIGHT C SLIGHT
	$\sim$	0 MINIMAL	0 MINIMAL	O MINIMAL

# **Section 1. Identification**

Product identifier(s)/	1.0
Trademark(s) used on the	
label	
Other means of	:
identification	
Part number	:

### **Recommended use and restrictions**

**Identified uses** 

Manufacturer/Supplier	: Unelko Corporation 14641 N 74th Street Scottsdale, AZ 85260 USA Fax: 1-480-483-7674 Phone: 1-480-991-7272 (8 AM to 5 PM – Monday-Friday – Arizona Time)
Emergency telephone	: ChemTel
number (with hours of	1-813-248-0585
operation)	1-800-255-3924

# Section 2. Hazards identification

OSHA/HCS status	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	EYE IRRITATION - Category 2B (Mild Irritant, Reversible in 7 days.)
GHS label elements	
Signal word	: Warning
Hazard statements	: Causes eye irritation.
Precautionary statements	
Prevention	: When storing, handling, transferring or repackaging large quantities, wear eye or face protection. Wash hands thoroughly after handling.
Response	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.



# Section 2. Hazards identification

Storage

: Not applicable.

Disposal

: Not applicable.

Hazards not otherwise classified

## : None known.

# Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

### **CAS number/other identifiers**

CAS number : Not applicable.	Product code	: Not available.
<b>CAS number</b> : Not applicable.	Dreduct code	Not available
	CAS number	: Not applicable.

Ingredient name	%	CAS number
Dimethyloctadecyl[3-(trimethoxysilyl)propyl]ammonium chloride	1 - 5	27668-52-6
Poly(oxy-1,2-ethanediyl), .alphaundecylomegahydroxy-	0.1 - 1	34398-01-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First aid measures

Description of necess	ary first aid measures
Eye contact	: Avoid contact with eyes. If in contacted with eyes: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. If irritation persists, get medical attention.
Inhalation	: Avoid breathing vapor or mist. <b>If inhaled:</b> Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe.
Skin contact	: Avoid contact with skin. If in contacted with skin: Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician.
Ingestion	: Do not ingest. <b>If ingested:</b> Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe.
	temp/offecte_equite and delayed

Most important symptoms/effects, acute and delayed Potential acute health effects Eve contact

Eye contact

: Causes eye irritation.



# Section 4. First aid measures

Skin contact : N	lo known significant effects or critical hazards. lo known significant effects or critical hazards. lo known significant effects or critical hazards.
Ingestion : N	5
•	lo known significant effects or critical hazards.
Over-exposure signs/symptoms	
i	Adverse symptoms may include the following: ritation vatering edness
Inhalation : N	lo known significant effects or critical hazards.
Skin contact : N	lo known significant effects or critical hazards.
Ingestion : N	lo known significant effects or critical hazards.

Indication of immediate med	dical attention and special treatment needed, if necessary	
Notes to physician	: Treat symptomatically.	
Specific treatments	: No specific treatment.	
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.	

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: No specific fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
Special protective actions for fire-fighters	: No special protection is required.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

Personal precautions, protect	tiv	e equipment and emergency procedures
For non-emergency personnel	:	Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".



# Section 6. Accidental release measures

Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental
	pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

Spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

Precautions for safe handling	1	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
None	None

Appropriate engineering controls	: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.



# Section 8. Exposure controls/personal protection

### **Individual protection measures**

Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: None required.
Skin protection	
Hand protection	: None required.
Body protection	: None required.
Other skin protection	: None required.
<b>Respiratory protection</b>	: None required.

# Section 9. Physical and chemical properties

Appearance	
Physical state	: Liquid.
Color	: Clear to slightly cloudy.
Odor	: None.
Odor threshold	: Not applicable.
рН	: 5 [Conc. (% w/w): 1%]
Melting point	: Not applicable.
Boiling point	: 100°C (212°F)
Flash point	: Non-flammable.
Burning time	: Not applicable.
Burning rate	: Not applicable.
Evaporation rate	: 1 (Water = 1)
Flammability (solid, gas)	: Non-flammable.
Lower and upper explosive (flammable) limits	: Not applicable.
Vapor pressure	: Not applicable.
Vapor density	: Not applicable.
Relative density	: 1
Solubility in water	: Soluble.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not applicable.
Decomposition temperature	: Not available.
SADT	: Not available.
Viscosity	: Water.

# Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	The product is stable.
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.



# Section 10. Stability and reactivity

Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Incompatible materials	: Extremely reactive or incompatible with the following materials: reducing materials, combustible materials, organic materials and metals. Reactive or incompatible with the following materials: oxidizing materials and acids.
Conditions to avoid	: No specific data.

# Section 11. Toxicological information

### Information on toxicological effects

Acut	e tox	icity
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Product/ingredient name	Result	Species	Dose	Exposure
Dimethyloctadecyl[3-(trimethoxysilyl) propyl]ammonium chloride	LC50 Inhalation Vapor	Rat	112 mg/m³	4 hours
	LD50 Oral	Rat	9910 mg/kg	-

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Dimethyloctadecyl[3-(trimethoxysilyl) propyl]ammonium chloride	Skin - Mild irritant	Rabbit	-	-	-
	Eyes - Mild irritant	Rabbit	-	-	-

### **Sensitization**

There is no applicable data.

### **Mutagenicity**

There is no applicable data.

### **Carcinogenicity**

### **Classification**

Product/ingredient name	OSHA	IARC	ACGIH	NTP
None				

### **Reproductive toxicity**

There is no applicable data.

#### **Teratogenicity**

There is no applicable data.

#### Specific target organ toxicity (single exposure)

Name	• •	Route of exposure	Target organs
None			

### Specific target organ toxicity (repeated exposure)

There is no applicable data.

### Aspiration hazard

There is no applicable data.



Section 11. Toxico	
Information on the likely routes of exposure	: Routes of entry anticipated: Oral, Dermal, Inhalation.
Potential acute health effects	<u>5</u>
Eye contact	: Causes eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Symptoms related to the phy	vsical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: irritation watering redness
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
	. No known significant enects of childa hazards.
Ingestion	: No known significant effects or critical hazards.
	: No known significant effects or critical hazards.
Delayed and immediate effect	
Delayed and immediate effect	: No known significant effects or critical hazards.
Delayed and immediate effect	: No known significant effects or critical hazards.
Delayed and immediate effect Short term exposure Potential immediate	: No known significant effects or critical hazards.
Delayed and immediate effect Short term exposure Potential immediate effects	<ul> <li>No known significant effects or critical hazards.</li> <li>cts and also chronic effects from short and long term exposure</li> <li>No known significant effects or critical hazards.</li> <li>No known significant effects or critical hazards.</li> </ul>
Delayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects	<ul> <li>No known significant effects or critical hazards.</li> <li>cts and also chronic effects from short and long term exposure</li> <li>No known significant effects or critical hazards.</li> </ul>
Delayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate	<ul> <li>No known significant effects or critical hazards.</li> <li>cts and also chronic effects from short and long term exposure</li> <li>No known significant effects or critical hazards.</li> <li>No known significant effects or critical hazards.</li> </ul>
Delayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects	<ul> <li>No known significant effects or critical hazards.</li> <li>cts and also chronic effects from short and long term exposure</li> <li>No known significant effects or critical hazards.</li> </ul>
Delayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects	<ul> <li>No known significant effects or critical hazards.</li> <li>cts and also chronic effects from short and long term exposure</li> <li>No known significant effects or critical hazards.</li> </ul>
Delayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential delayed effects	<ul> <li>No known significant effects or critical hazards.</li> <li>and also chronic effects from short and long term exposure</li> <li>No known significant effects or critical hazards.</li> </ul>
Delayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential delayed effects Potential chronic health effects General	<ul> <li>No known significant effects or critical hazards.</li> <li>cts and also chronic effects from short and long term exposure</li> <li>No known significant effects or critical hazards.</li> </ul>
Delayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential chronic health effects General Carcinogenicity	<ul> <li>No known significant effects or critical hazards.</li> <li>cts and also chronic effects from short and long term exposure</li> <li>No known significant effects or critical hazards.</li> </ul>
Delayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential delayed effects Potential chronic health effects General Carcinogenicity Mutagenicity	<ul> <li>No known significant effects or critical hazards.</li> <li>No known significant effects from short and long term exposure</li> <li>No known significant effects or critical hazards.</li> </ul>

## Numerical measures of toxicity

Acute toxicity estimates	
Route	ATE value
	8333.3 mg/kg 220 mg/L



# Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Poly(oxy-1,2-ethanediyl), .alpha undecylomegahydroxy-	Acute EC50 6700 μg/l Fresh water	Daphnia - Daphnia magna	48 hours
undecyi-tomeganyuroxy-	Acute LC50 7100 μg/l Fresh water	Fish - Pimephales promelas	96 hours

### Persistence and degradability

There is no data available.

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
None			

### Mobility in soil

Soil/water partition	: There is no data available.
coefficient (Koc)	

### Other adverse effects : No known significant effects or critical hazards.

# Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# Section 14. Transport information

	DOT Classification	IMDG	ΙΑΤΑ
Additional information			
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-



### Section 14. Transport information Transport hazard class(es) **Packing group** \_ \_ \_ **Environmental** No. No. No. hazards

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to Annex II of MARPOL 73/78 and the IBC Code

# Section 15. Regulatory information

U.S. Federal regulations	: TSCA 8(a) CDR Exempt/Partial exemption: Not determined
	United States inventory (TSCA 8b): All components are listed or exempted.
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed
SARA 302/304	

**Composition/information on ingredients** 

			SARA 302 1	PQ	SARA 304 F	RQ
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
None						

## **SARA 304 RQ**

: Not applicable.

## SARA 311/312

**Classification** 

: Immediate (acute) health hazard

**Composition/information on ingredients** 



# Section 15. Regulatory information

Name	%	Fire hazard	Sudden release of pressure	Reactive	(acute) health	Delayed (chronic) health hazard
Dimethyloctadecyl[3-(trimethoxysilyl)propyl] ammonium chloride Poly(oxy-1,2-ethanediyl), .alphaundecylomega. -hydroxy-	1 - 5 0.1 - 1	No. No.	No. No.	No. No.	Yes. Yes.	No. No.

**State regulations** 

The following components are listed: None
: The following components are listed: None
: The following components are listed: 1,2-Propanediol
: The following components are listed: 1,2-Propanediol
<ul> <li>Australia inventory (AICS): All components are listed or exempted.</li> <li>China inventory (IECSC): All components are listed or exempted.</li> <li>Japan inventory: Not determined.</li> <li>Korea inventory (EHS Register): Not determined.</li> <li>Malaysia Inventory of Chemicals (NZIoC): All components are listed or exempted.</li> <li>Philippines inventory (PICCS): All components are listed or exempted.</li> <li>Taiwan inventory (CSNN): Not determined.</li> </ul>
: Not listed
: Not listed
: Not listed

# Section 16. Other information

<u>History</u>	
Date of issue	:07/09/2013
Date of previous issue	: Not applicable.
Version	: 1
Revised Section(s)	: Not applicable.
Original SDS Prepared By	: KMK Regulatory Services Inc.
References	: Guide to The Globally Harmonized System of Classification and Labeling of Chemicals (GHS): http://www.osha.gov/dsg/hazcom/ghs.html Modification of the Hazard Communication Standard (HCS) to conform with the United Nations' (UN) Globally Harmonized System of Classification and Labeling of Chemicals (GHS): http://www.osha.gov/dsg/hazcom/hazcom-faq.html



# Section 16. Other information

Key to abbreviations	: ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships,
	1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
	UN = United Nations
Nation to useday	

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.