

SAFETY DATA SHEET / MATERIAL SAFETY DATA SHEET			Date of Preparation: March 3, 2014
		Section 1: IDENTI	FICATION
Product Name:		MEG-301	
Synonyms:		Not available.	
Product Use:		Dust Suppression.	
Restrictions on U	Jse:	Not available.	
Manufacturer/Su	pplier:	Martin Engineering One Martin Place Neponset, IL 61345	
Phone Number:		1-800-544-2947	
Emergency Phon	ne:	CHEMTREC (24 HR I	Emergency Telephone): 1-800-424-9300
		Medical: Rocky Moun	tain Poison Center: 1-303-623-5716
Date of Preparati	on of SDS:	March 3, 2014	
		Section 2: HAZARD(S)	DENTIFICATION
GHS INFORMATI	ON		
Classification:	Sensitizatio	on - Skin, Category 1	
LABEL ELEMENTS Hazard Pictogram(s):			
Signal Word:	Warning		
Hazard Statements:	May cause an allergic skin reaction.		
Precautionary Statements Prevention: Avoid breathing mist, vapors, or spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, protective clothing and eye protection.			
Response:	If on skin: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.		
Storage:	Not applicable.		
Disposal:	Dispose of contents/container in accordance with applicable regional, national and local laws and regulations		
Hazards Not Otherwise Classified: Not applicable.			
Ingredients with	linknown To		

Ingredients with Unknown Toxicity: None.



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This material is considered hazardous by the OSHA Hazard Communication Standard, (29 CFR 1910.1200).

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS			
Hazardous Ingredient(s)	Common name / Synonyms	CAS No.	% wt./wt.
3,5,7-Triaza-1- azoniatricyclo[3.3.1.13,7]decane, 1-(3- chloro-2-propen-1-yl)-, chloride (1:1)	Quaternium-15; CTAC	4080-31-3	0.1 - 1 *

\* Exact percentage (concentration) of composition has been withheld as a trade secret.

Section 4: FIRST-AID MEASURES		
Inhalation:	If inhaled: Call a poison center or doctor if you feel unwell.	
	Acute and delayed symptoms and effects: May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.	
Eye Contact:	If in eyes: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center or doctor if you feel unwell.	
	Acute and delayed symptoms and effects: May cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.	
Skin Contact:	If on skin: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.	
	Acute and delayed symptoms and effects: May cause an allergic skin reaction. May cause skin irritation. Signs/symptoms may include localized redness, swelling, and itching.	
Ingestion:	If swallowed: Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.	
	Acute and delayed symptoms and effects: May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.	
General Advice:	In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).	
Note to Physicians:	Symptoms may not appear immediately.	



Section 5: FIRE-FIGHTING MEASURES

#### FLAMMABILITY AND EXPLOSION INFORMATION

Not flammable or combustible by OSHA/WHMIS criteria.

Sensitivity to Mechanical Impact: Sensitivity to Static Discharge:	This material is not sensitive to mechanical impact. This material is sensitive to static discharge at temperatures at or above the flash point.
MEANS OF EXTINCTION Suitable Extinguishing Media:	Small Fire: Dry chemical, CO2, water spray or regular foam.
	Large Fire: Water spray, fog or regular foam. Move containers from fire area if you can do it without risk.
Unsuitable Extinguishing Media:	Not available.
Products of Combustion:	Oxides of carbon. Oxides of nitrogen. Ammonia. Hydrogen chloride. Chlorine. Acrolein. Amines.
Protection of Firefighters:	Fire may produce irritating, corrosive and/or toxic gases. Runoff from fire control or dilution water may cause pollution. Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

Section 6: ACCIDENTAL RELEASE MEASURES		
Emergency Procedures:	Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).	
Personal Precautions:	Do not touch or walk through spilled material. Use personal protection recommended in Section 8.	
<b>Environmental Precautions:</b>	Keep out of drains, sewers, ditches, and waterways.	
Methods for Containment:	Stop leak if without risk. Do not flush to sewer or allow to enter waterways.	
Methods for Clean-Up:	Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.	
Other Information:	See Section 13 for disposal considerations.	
Section 7: HANDLING AND STORAGE		

# Handling:

Do not swallow. Avoid breathing mist, vapors, or spray. Contaminated work clothing should not be allowed out of the workplace. See Section 8 for information on Personal Protective Equipment.

# Storage:

Store away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of the reach of children.



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Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Exposure Guidelines** Component

Quaternium-15 (CTAC) [CAS No. 4080-31-3]

ACGIH: No TLV established. **OSHA:** No PEL established.

**PEL:** Permissible Exposure Limit TLV: Threshold Limit Value

# Engineering Controls:

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapour, gas, etc.) below recommended exposure limits.

# PERSONAL PROTECTIVE EQUIPMENT (PPE)



Eye/Face Protection:	Safety glasses are recommended. Use equipment for eye protection that meets the standards referenced by CSA Standard CAN/CSA-Z94.3-92 and OSHA regulations in 29 CFR 1910.133 for Personal Protective Equipment.	
Hand Protection:	Wear protective gloves. Neoprene or Butyl Rubber gloves are recommended. Consult manufacturer specifications for further information.	
Skin and Body Protection:	Wear protective clothing.	
Respiratory Protection:	If engineering controls and ventilation are not sufficient to control exposure to below the allowable limits then an appropriate NIOSH/MSHA approved air-purifying respirator that meets the requirements of CSA Standard CAN/CSA- Z94.4-11, or self-contained breathing apparatus must be used. Supplied air breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations exceed the limits of the air-purifying respirators.	
General Hygiene Considerations:	Handle according to established industrial hygiene and safety practices.	
Section 9: PHYSICAL AND CHEMICAL PROPERTIES		

Appearance:	A clear, fluorescent pink liquid having a very slight, mild odor.
Color:	Fluorescent pink.
Odor:	Very slight, mild.



Odor Threshold:	Not available.
Physical State:	Liquid.
pH:	8 to 9
Melting Point / Freezing Point:	< 0 °C (32 °F)
Initial Boiling Point:	Not available.
Boiling Point:	> 100 °C (212 °F)
Flash Point:	> 93.3 °C (200 °F) (PMCC)
Evaporation Rate:	Not available.
Flammability (solid, gas):	Not applicable.
Lower Flammability Limit:	Not available.
Upper Flammability Limit:	Not available.
Vapor Pressure:	Not available.
Vapor Density:	Not available.
Relative Density:	1.037 (Water = 1) at 20 °C (68 °F)
Solubilities:	Soluble in water.
Partition Coefficient: n- Octanol/Water:	Not available.
Auto-ignition Temperature:	306 °C (582.8 °F)
Decomposition Temperature:	Not available.
Viscosity:	Not available.
Percent Volatile, wt. %:	Nil.
VOC content, wt. %:	Nil.
Density:	1.037 g/mL at 20°C (68 °F)
Coefficient of Water/Oil Distribution:	Not available.

# Section 10: STABILITY AND REACTIVITY

Reactivity:	Contact with incompatible materials. Sources of ignition. Exposure to heat.
Chemical Stability:	Stable under normal storage conditions.
Possibility of Hazardous Reactions:	None known.
Conditions to Avoid:	Contact with incompatible materials. Sources of ignition. Exposure to heat.
Incompatible Materials:	Strong acids. Strong bases. Strong oxidizers.



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Hazardous Decomposition Products:Oxides of carbon. Oxides of nitrogen. Ammonia.Hydrogen chloride. Chlorine. Acrolein. Amines.

# Section 11: TOXICOLOGICAL INFORMATION

EFFECTS OF ACUTE EXPOSURE					
Product Toxicity					
Oral:	Not availat	Not available.			
Dermal:	Not availat	Not available.			
Inhalation:	Not availat	ole.			
Component Toxicity Component Quaternium-15 (CTAC)		<b>CAS No.</b> 4080-31-3	<b>LD</b> ₅₀ <b>oral</b> 500 mg/kg (rat)	<b>LD₅₀ dermal</b> 565 mg/kg (rabbit)	LC₅₀ Not available.
Likely Route	es of Exposur	e: Eye conta	Eye contact. Skin contact. Inhalation. Ingestion.		
Target Orga	ns:	Skin. Eyes	s. Gastrointestinal ti	ract. Respiratory syste	em.
<ul> <li>Symptoms (including delayed and immediate effects)</li> <li>Inhalation: May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.</li> </ul>			h, sneezing,		
Eye:	•	May cause eye irritation. Signs/symptoms may include redness, swelling, pain, earing, and blurred or hazy vision.			
Skin:		May cause an allergic skin reaction. May cause skin irritation. Signs/symptoms may nclude localized redness, swelling, and itching.			
Ingestion:		May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.			
Skin Sensiti	zation:	Not availab	le.		
Respiratory Sensitization:Not available.Medical ConditionsNot available.Aggravated By Exposure:					
EFFECTS O	F CHRONIC E	XPOSURE (fro	om short and long-te	erm exposure)	
Target Orga	ns:	Skin. Eyes. G	astrointestinal tract	. Respiratory system.	
Chronic Effe	ects:	Prolonged or	repeated contact m	ay dry skin and cause	irritation.
Carcinogeni	city:			y carcinogens or poter IARC, OSHA, or NTP	
Mutagenicit	y:	the bacterial r (clastogenic) f genotoxic in ra did not induce	everse mutation as to rat whole blood ly ats in an <i>in vitro</i> uns micronuclei in eryt was not genotoxic	otoxic (mutagenic) to 0 say. However, it was r ymphocytes. The subs scheduled DNA Synth hrocytes of treated mi (clastogenic and/or ar	not genotoxic stance is not esis test, and it ce and,



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 Reproductive Effects:
 Quaternium-15 (CTAC) has caused birth defects in rats when administered at relatively high oral doses; no defects were observed at lower doses. Quaternium-15 (CTAC) did not cause any birth defects or any other effects on the fetus when relatively high doses were administered dermally, the most likely route of exposure.

 Developmental Effects
 Not available.

 Embryotoxicity:
 Not available.

Toxicologically Synergistic Materials: Not available.

Section 12: ECOLOGICAL INFORMATION		
Ecotoxicity:	Quaternium-15 (CTAC): Lepomis macrochiorus (Bluegill): LC50 = 66 mg/L, 96-Hr; Oncorhynchus mykiss (Rainbow trout): LC50 = 64 mg/L, 96- Hr; Daphnia magna (Water flea): EC50 = 25.8 mg/L, 48-Hr; Pseudokirchneriella subcapitata (Green algae): ErC50 = 1.5 mg/L, 96-Hr; Activated sludge (Microorganisms): EC50 = 1504 mg/L.	
Persistence / Degradability:	This material is expected to be readily biodegradable.	
<b>Bioaccumulation / Accumulation:</b>	Not available.	
Mobility in Environment:	Not available.	
Other Adverse Effects:	Not available.	
Section 13: DISPOSAL CONSIDERATIONS		
<b>Disposal Instructions:</b> Disposal should be in accordance with applicable regional, national		

stringent than regional or national requirements. Section 14: TRANSPORT INFORMATION

and local laws and regulations. Local regulations may be more

# U.S. Department of Transportation (DOT)<br/>Proper Shipping Name:Not regulated.Class:Not applicable.UN Number:Not applicable.Packing Group:Not applicable.Label Code:Not applicable.



Canada Transportation of Dangerous Goods (TDG)Proper Shipping Name:Not regulated.Class:Not applicable.UN Number:Not applicable.Packing Group:Not applicable.Label Code:Not applicable.

# Section 15: REGULATORY INFORMATION

#### **Chemical Inventories**

#### US (TSCA)

The components of this product are in compliance with the chemical notification requirements of TSCA.

#### Canada (DSL)

The components of this product are in compliance with the chemical notification requirements of the NSN Regulations under CEPA, 1999.

#### **Federal Regulations**

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Classification:	Not a controlled product.
Hazard Symbols:	None.

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#### **United States**

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

| SARA Title III |         |
|----------------|---------|
| Component      | Section |
|                | (       |

| Component     | Section 302<br>(EHS) TPQ<br>(lbs.) | Section<br>304 EHS<br>RQ (lbs.) | CERCLA<br>RQ (lbs.) | Section<br>313 | CODE        | CAA<br>112( r ) TQ<br>(lbs.) |
|---------------|------------------------------------|---------------------------------|---------------------|----------------|-------------|------------------------------|
| Quaternium-15 | Not listed.                        | Not listed.                     | Not listed.         | 313            | Not listed. | Not listed.                  |

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# State Regulations

| Massachusetts                                                                |          |          |  |  |
|------------------------------------------------------------------------------|----------|----------|--|--|
| US Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of |          |          |  |  |
| Massachusetts Regulations Section 670.000)                                   |          |          |  |  |
| Component                                                                    | CAS No.  | RTK List |  |  |
| Methylene chloride                                                           | 75-09-2  | E        |  |  |
| 1,3-Dichloropropene                                                          | 542-75-6 | E        |  |  |

**Note:** E = Extraordinarily Hazardous Substance

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#### **New Jersey**

US New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)
Component
Quaternium-15 (CTAC)
CAS No.
RTK List
Listed.

#### Pennsylvania

US Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

No components are listed.

# California

**California Prop 65:** WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

# ComponentType of ToxicityMethylene chloridecancer1,3-Dichloropropenecancer

# Section 16: OTHER INFORMATION

#### Disclaimer:

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for his own particular use.

| Date of Preparation of SDS: | March 3, 2014         |
|-----------------------------|-----------------------|
| SDS Expiry Date (Canada):   | March 2, 2017         |
| Version:                    | 1.0                   |
| GHS SDS Prepared by:        | Aegis Regulatory Inc. |
|                             | Phone: (519) 488-0351 |
|                             | www.aegisreg.com      |