1 PRODUCT AND COMPANY IDENTIFICATION

Functional Additives
2000 Market Street
21st Floor
Philadelphia, PA 19103-3222

EMERGENCY PHONE NUMBERS:
Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887
Medical: Rocky Mountain Poison Control Center
(866) 767-5089 (24Hrs)

Information Telephone Numbers	Phone Number	Available Hrs
Customer Service Number	(800) 331-7654	8:00 AM - 5:00 PM EST

Product Name	TEGOGLAS (R) 3000+
Product Synonym(s)	
Chemical Family	NA
Chemical Formula	NA
Chemical Name	NA
EPA Reg Num	NA
Product Use	

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS RegistryNumber	Typical %	OSHA
Emulsifier A	Proprietary	<5	Y
Emulsifier C	Proprietary	<5	Y
Polyethylene, oxidized	NJTSN 03365400-5061P	>10	Y
Water	7732-18-5	>75	N

The substance(s) marked with a "Y" in the OSHA column, are identified as hazardous chemicals according to the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200)

The components of this product are all on the TSCA Inventory list.

3 HAZARDS IDENTIFICATION

Emergency Overview

White, cloudy liquid.

DANGER!
CAUSES EYE BURNS. MAY CAUSE BLINDNESS.
CAUSES DIGESTIVE TRACT BURNS.
CAUSES SKIN IRRITATION.
MAY BE HARMFUL IF SWALLOWED.

Potential Health Effects

Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material. Based on single exposure animal tests, this material or its components are considered to be moderately to slightly toxic if swallowed, no more than slightly toxic if absorbed through skin, severely irritating to skin and corrosive to eyes. If swallowed, this material may cause mild to severe burns to the mouth, throat and digestive tract. A component of this material may be absorbed through the skin in toxic amounts, and may produce inflammatory effects on the lungs. Mild

to severe lung injury may occur if it is drawn into the lungs (aspirated) during swallowing, or during vomiting after swallowing. Symptoms of injury may include increased breathing and heart rate, coughing and related signs of respiratory distress.

4 FIRST AID MEASURES

IF IN EYES, immediately flush with plenty of water for at least 15 minutes. Get medical attention immediately.

IN CASE OF CONTACT, immediately flush the area with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

IF SWALLOWED, do NOT induce vomiting. Give water to drink. Get medical attention immediately. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

IF INHALED, remove to fresh air.

5 FIRE FIGHTING MEASURES

Fire and Explosive Properties

Auto-Ignition Temperature	NE	
Flash Point	NE	Flash Point Method
Flammable Limits- Upper	NE	
Lower	NE	

Extinguishing Media

Use water spray, carbon dioxide, foam or dry chemical.

Fire Fighting Instructions

Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Fire fighting equipment should be thoroughly decontaminated after use.

Fire and Explosion Hazards

When burned, the following hazardous products of combustion can occur:
Oxides of carbon

6 ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak

Isolate hazard area and deny entry to unnecessary or unprotected personnel. Contain spilled liquid with sand or earth. Clean up spill immediately, observing precautions in the Personal Protection section of MSDS. Avoid runoff into storm sewers and ditches which lead to waterways.

7 HANDLING AND STORAGE

Handling

Avoid breathing vapor.

7 HANDLING AND STORAGE

Avoid contact with eyes, skin and clothing.
Do not taste or swallow.
Use only with adequate ventilation.
Wash thoroughly after handling.
Keep container closed.
Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.

Storage

This material is not hazardous under normal storage conditions; however, material should be stored in closed containers, in a secure area to prevent container damage and subsequent spillage.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Investigate engineering techniques to reduce exposures. Provide ventilation if necessary to minimize exposures. If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

Eye / Face Protection

Where there is potential for eye contact, wear a face shield, chemical goggles, and have eye flushing equipment immediately available.

Skin Protection

Wear appropriate chemical resistant protective clothing and chemical resistant gloves to prevent skin contact. Consult glove manufacturer to determine appropriate type glove material for given application. Wear face shield and chemical resistant clothing such as a rubber apron when splashing may occur. Rinse contaminated skin promptly. Wash contaminated clothing and clean protective equipment before reuse. Wash skin thoroughly after handling.

Respiratory Protection

Avoid breathing vapor or mist. Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

Airborne Exposure Guidelines for Ingredients

The components of this product have no established Airborne Exposure Guidelines

-Only those components with exposure limits are printed in this section.
-Skin contact limits designated with a "Y" above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required.
-ACGIH Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic reactions.
-WEEL-AIHA Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic skin reactions.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor	White, cloudy liquid.
pH	5
Specific Gravity	NE
Vapor Pressure	NE
Vapor Density	NE
Melting Point	NA
Freezing Point	NE
Boiling Point	100 C
Solubility In Water	Miscible

10 STABILITY AND REACTIVITY

Stability

This material is chemically stable under normal and anticipated storage and handling conditions.

Hazardous Polymerization

Does not occur.

Incompatibility

None known

Hazardous Decomposition Products

The following hazardous decomposition products may occur:
Oxides of Carbon

11 TOXICOLOGICAL INFORMATION

Toxicological Information

Data on this material and/or its components are summarized below.

Emulsifier A
Single exposure (acute) studies indicate that this material is slightly toxic to practically non-toxic if swallowed (rat LD50 2,830-8,270 mg/kg) or absorbed through skin (rabbit LD50 2,012-11,300 mg/kg), moderately to severely irritating to rabbit eyes and slightly to moderately irritating to rabbit skin. All rats survived an 8-hr exposure to concentrated vapor.

Following repeated skin contact, inflammatory effects on the lungs were observed in rabbits.

Emulsifier C
Single exposure (acute) studies indicate that this material is moderately to slightly toxic if swallowed (rat LD50 500-600 mg/kg; 5 EO), no more than slightly toxic if absorbed through skin (rabbit LD50 >2 ml/kg), severely irritating to rabbit skin and corrosive to rabbit eyes.

Repeated oral feeding studies in dogs and rats have shown decreased weight gain, signs of anemia (dogs only) and adverse effects on the gastrointestinal tract. No birth defects were noted in the offspring of rats exposed to surfactant mixtures containing this material, even at doses that produced adverse effects on the mothers and

11 TOXICOLOGICAL INFORMATION

offspring.

12 ECOLOGICAL INFORMATION

Ecotoxicological Information

Data on this material and/or its components are summarized below.

Emulsifier A
This material is moderately toxic to bluegill sunfish (96-hr LC50 4.6-4.8 mg/l).

Emulsifier C
This material is highly toxic to zebrafish (96-hr LC50 0.39 mg/l).

Chemical Fate Information

No data are available.

13 DISPOSAL CONSIDERATIONS

Waste Disposal

Incineration is the recommended method for disposal observing all local, state and federal regulations.

14 TRANSPORT INFORMATION

DOT Name	Not Regulated
DOT Technical Name	
DOT Hazard Class	
UN Number	
DOT Packing Group	PG
RQ	

15 REGULATORY INFORMATION

Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370)

Immediate (Acute) Health	Y	Fire	N
Delayed (Chronic) Health	N	Reactive	N
		Sudden Release of Pressure	N

The components of this product are all on the TSCA Inventory list.

Ingredient Related Regulatory Information:

SARA Reportable Quantities	CERCLA RQ	SARA TPQ

SARA Reportable Quantities	CERCLA RQ	SARA TPQ
Emulsifier A	NE	
Water	NE	
Polyethylene, oxidized	NE	

16 OTHER INFORMATION

Revision Information

Revision Date	02 JAN 2007	Revision Number 4
Supercedes Revision Dated	08-SEP-2006	

Revision Summary

The name of this business group has changed to Functional Additives.

Key

NE= Not Established NA= Not Applicable (R) = Registered Trademark

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