

# Material Safety Data Sheet

## AIRFOAM-HD

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	B

24 hr. Emergency Contact (CHEMTREC) US Tel: 1- 800 - 424-9300 - Int'l. Tel. 703 - 527 - 3887

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

SUPPLIER: AQUA-CLEAR Inc.  
608 Virginia Street East  
Charleston, WV 25301

PRODUCT NAME: AIRFOAM-HD  
PRODUCT USE/CLASS: Foamer

MSDS REVISION DATE: 02/16/04

PHONE: 304-343-4792

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	EXPOSURE LIMITS	CAS#	% BY WEIGHT
GLYCOL ETHERS	ACGIH TLV – 25 ppm TWA OSHA PEL – 25 ppm TWA	9004-77-7	7-13 %

### 3. HAZARD IDENTIFICATION

**EYE:** Liquid, aerosols and vapors of this product may be irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

**SKIN:** May cause skin irritation. Allergic reactions are possible.

**INGESTION:** May be irritating to mouth throat and stomach, and may cause abdominal discomfort, nausea, and diarrhea.

**INHALATION:** Prolonged inhalation of concentrated vapors may be harmful. May cause severe irritation to mucous membranes and lung tissue.

**CHRONIC INFORMATION:** None known

**PRIMARY ROUTE(S) OF ENTRY:** Skin contact, Ingestion, and Inhalation

### 4. FIRST AID MEASURES

**EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention, if irritation persists.

**SKIN CONTACT:** Wash with soap and water. Get medical attention if irritation develops or persists.

**INHALATION:** Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

**INGESTION:** If swallowed induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious person. Contact a poison control center or medical personnel immediately.

### 5. FIRE FIGHTING MEASURES

FLASH POINT: >200 F  
(TAGLIABUE CLOSED CUP)

LOWER EXPLOSIVE LIMIT: N.D.  
UPPER EXPLOSIVE LIMIT: N.D.

# Material Safety Data Sheet

## AIRFOAM-HD

**AUTOIGNITION TEMPERATURE:** N.D.

**EXTINGUISHING MEDIA:** ALCOHOL      CO2      DRY CHEMICAL      WATER FOG

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Emits highly toxic and irritating fumes in a fire.

**SPECIAL FIRE FIGHTING PROCEDURES:** As in any fire, wear a self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

### 6. ACCIDENTIAL RELEASE MEASURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. (See exposure controls / personal protection section) Spilled material should be disposed of according to applicable regulations.

### 7. HANDLING AND STORAGE

**HANDLING:** Handle all chemicals with care. Wash thoroughly after handling.

**STORAGE:** Keep container closed when not in use. Store in a cool, dry, well ventilated place away from incompatible materials.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Local exhaust ventilation may be necessary to control any air contaminants to within their exposure limits.

**RESPIRATORY PROTECTION:** No protection needed under normal use and conditions. Use a NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge when airborne concentrations are expected to exceed exposure limits. Protection by air purifying respirators is limited.

**SKIN PROTECTION:** When contact is likely wear chemical resistant gloves and boots.

**EYE PROTECTION:** Wear safety glasses with side shields or goggles.

**OTHER PROTECTIVE EQUIPMENT:** Emergency eye wash stations should be available in the work area.

**HYGIENIC PRACTICES:** Wash hands before eating.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Hazy brown

**ODOR:** N/D

**BOILING POINT (RANGE):** N/D

**FREEZE POINT:** N/D

**VAPOR DENSITY:** 8.92

**VAPOR PRESSURE:** N/D

**PHYSICAL STATE:** Liquid

**SOLUBILITY IN WATER:** Complete

**PH (AS IS):** 7.49

**SPECIFIC GRAVITY:** 1.07

### 10. STABILITY AND REACTIVITY DATA

**CONDITIONS TO AVOID:** Avoid temperature extremes

**INCOMPATIBILITY:** None known.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon, sulfur, and nitrogen.

**HAZARDOUS POLYMERIZATION:** Will not occur under normal use and storage conditions.

# Material Safety Data Sheet

## AIRFOAM-HD

**CHEMICAL STABILITY:** This product is stable under normal storage conditions.

### 11. TOXICOLOGICAL INFORMATION

**ORAL:** No product information is available.

**DERMAL:** No product information is available.

**INHALATION:** No product information is available.

### 12. ECOLOGICAL INFORMATION

**ECOTOXICITY:** No product information is available.

**CHEMICAL FATE INFORMATION:** No product information is available.

### 13. DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL:** Consult local, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations. Disposal in streams or sewers may be prohibited by federal, state, and local regulations.

**RCRA STATUS:** None

### 14. TRANSPORTATION INFORMATION

#### (NON-BULK SHIPMENTS)

**D.O.T. PROPER SHIPPING NAME:** Not Regulated

**D.O.T. TECHNICAL NAME:** Non-Hazardous for D.O.T. Purposes

**D.O.T. HAZARD CLASS:** N/A

**HAZARD SUBCLASS:** N/A

**D.O.T. UN NUMBER:** N/A

**PACKING GROUP:** N/A

**RESP. GUIDE PAGE:** N/A

#### (BULK SHIPMENTS)

**D.O.T. PROPER SHIPPING NAME:** Not Regulated

**D.O.T. TECHNICAL NAME:** Non-Hazardous for D.O.T. Purposes

**D.O.T. HAZARD CLASS:** N/A

**HAZARD SUBCLASS:** N/A

**D.O.T. UN NUMBER:** N/A

**PACKING GROUP:** N/A

**RESP. GUIDE PAGE:** N/A

**T.D.G. PROPER SHIPPING NAME:** Not Regulated

**T.D.G. TECHNICAL NAME:** N/A

**T.D.G. HAZARD CLASS:** N/A

**HAZARD SUBCLASS:** N/A

**T.D.G. UN NUMBER:** N/A

**PACKING GROUP:** N/A

**RESP. GUIDE PAGE:** N/A

**IMDG PROPER SHIPPING NAME:** Not Regulated

**IMDG TECHNICAL NAME:** N/A

**IMDG HAZARD CLASS:** N/A

**HAZARD SUBCLASS:** N/A

**IMDG UN NUMBER:** N/A

**PACKING GROUP:** N/A

**EmS No:** N/A

### 15. REGULATORY INFORMATION

#### CERCLA – SARA HAZARD CATEGORY:

SECTION 311/312: This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

# Material Safety Data Sheet

## AIRFOAM-HD

### IMMEDIATE HEALTH HAZARD

SARA SECTION 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

<u>COMPONENT</u>	<u>CAS#</u>	<u>% BY WEIGHT</u>
------------------	-------------	--------------------

No SARA Section 313 components exist in this product.

### TSCA STATUS:

All components of this product are listed on the Toxic Substance Control Act Inventory or are excluded from the listing requirements.

### INTERNATIONAL REGULATIONS:

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

**CANADIAN WHMIS CLASS:** D-2B

### CANADIAN ENVIRONMENTAL PROTECTION ACT:

All components of this product are listed on the Canadian Domestic Substance List (DSL).

### 16. OTHER INFORMATION

**HMIS RATING – HEALTH:** 1      **FLAMMABILITY:** 1      **REACTIVITY:** 0      **PERSONAL PROTECTIVE RATING:** B

**LEGEND:** N.A. – NOT APPLICABLE, N.E. - NOT ESTABLISHED, N.D. – NOT DETERMINED

THIS PRODUCT'S HEALTH AND SAFETY INFORMATION IS PROVIDED TO ASSIST OUR CUSTOMERS IN ASSESSING COMPLIANCE WITH HEALTH, SAFETY AND ENVIRONMENTAL REGULATIONS. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US, AND IS BELIEVED TO BE ACCURATE, ALTHOUGH NO GUARANTEE OR WARRANTY IS PROVIDED OR IMPLIED BY THE COMPANY IN THIS RESPECT. SINCE THE USE OF THIS PRODUCT IS WITHIN THE EXCLUSIVE CONTROL OF THE USER, IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE CONDITIONS OF SAFE USE. SUCH CONDITIONS MUST COMPLY WITH ALL GOVERNMENTAL REGULATIONS.



High Performance BioBased Lubricants

# MATERIAL SAFETY DATA SHEET

## BioBlend BioLube RDP<sup>150</sup>

### SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION

**Company Identification:**  
BioBlend Renewable Resources, LLC  
2439 Reeves Road  
Joliet, IL 60436

**Emergency Contact:** BioBlend 630-227-1800  
**Health Emergency:** Contact the Local Poison Control Center.

**Product Name:** BioLube RDP<sup>150</sup>

**Health HMIS** 0

**Product Family:** BioBlend

**Flammability HMIS** 1

**Reactivity HMIS** 0

**Date:** 3/11/2010

**Personal Protection HMIS** B

### SECTION 2: HAZARDOUS INGREDIENTS / EXPOSURE LIMITS

**Ingredients:** CAS#  
Not Classified as Hazardous

### SECTION 3: HAZARDS IDENTIFICATION

**Overexposure (Acute):** GENERAL: Low oral and dermal toxicity.

**Eye Contact:** May cause eye irritation.

**Skin Contact:** May cause skin irritation.

**Inhalation:** None known.

**Ingestion:** May cause stomach discomfort, nausea and vomiting.

### SECTION 4: FIRST AID MEASURES

**Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention if irritation develops.

**Skin Contact:** Remove contaminated clothing. Wash skin with soap and water. Get medical attention if irritation persists.

**Inhalation:** Vapor inhalation under ambient conditions is not normally a problem. If overcome by vapors from overheated product, remove to fresh air. Give artificial respiration or oxygen if necessary. Get medical attention if discomfort continues.

**Ingestion:** Not expected to be a problem if ingested. Get medical attention if physical discomfort occurs.

### SECTION 5: FIRE FIGHTING MEASURES

**Flash Point:** >600°F

**Extinguishing Media:** Use CO2, dry chemicals, sand, dolomite, etc.; alcohol resistant foam, water spray, fog or mist.

**Fire Safety Procedure:** Wear self-contained breathing apparatus and full turn out gear to fight fire. Use water to keep exposed containers cool and disperse vapors. Avoid spreading liquid and fire by water flooding.

**Unusual Fire Hazard:** Empty containers contain residue and/or vapors. Do not weld, cut, pressurize, braze, solder, drill, grind or expose to heat, sparks or flame.

**SECTION 6: ACCIDENTAL RELEASE MEASURES / DISPOSAL**

- Environmental Impact:** This product is >90% readily biodegradable, non-toxic, and is not expected to have adverse effects on humans or the environment, including fish and wildlife.
- Procedures for Spill:** Evacuate non-essential personnel. Use personal protective equipment. Remove sources of ignition, ventilate spill area, prevent entry into sewers and waterways. Pick up free material for recycle or disposal. Absorb residual liquid with inert material.
- Waste Management:** Dispose of according to federal, state and local regulations.

**SECTION 7: HANDLING AND STORAGE**

- Handling Procedures:** Wash hands thoroughly after handling material. Avoid contact with skin and eyes.
- Storage Procedures:** Do not store near potential sources of ignition. Store in a well ventilated area. Keep lid closed when not in use.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

- Protective Equipment:** Impermeable gloves, splash goggles, eye wash and safety shower.
- Respiratory Protection:** If overheated, use approved respiratory protective equipment.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance / Odor:</b>	Light amber; mild odor.	<b>Freezing Point:</b>	0°F
<b>Specific Gravity:</b>	.921	<b>Solubility in H<sub>2</sub>O, % by Volume:</b>	Not Determined
<b>Boiling Point, 760 mm</b>	Not Determined.	<b>Volatiles, % by Volume:</b>	Not Determined
<b>Vapor Pressure:</b>	Not Determined.	<b>Evaporation Rate, Butyl Acetate=1:</b>	Not Determined

**SECTION 10: STABILITY AND REACTIVITY**

- Thermal Stability:** Stable.
- Materials to Avoid:** Strong oxidizers.
- Hazardous Polymerization:** Will not occur.
- Hazardous Decomposition Products:** In the case of incomplete combustion, will produce oxides of carbon and carbon dioxide.

**SECTION 11: TOXICOLOGICAL INFORMATION**

- Toxicological Information:** No experimental toxicological data on the product as such are available.

**SECTION 12: TRANSPORTATION INFORMATION**

- U.S. DOT:** Not regulated by DOT as a hazardous material.

**SECTION 13: REGULATORY INFORMATION**

- U.S. TSCA Inventory:** All components of this product are listed on the TSCA inventory.
- SARA Extremely Hazardous Sub:** Not listed as such.
- SARA Section 313:** Does not contain any 313 ingredients.
- CERCLA Hazardous Substances:** No reportable quantity for this product or its components.
- Calif Prop 65:** Not Listed.
- RCRA Status:** Product as received is not considered hazardous waste under RCRA regulations. Used fluid must be examined by the generator prior to disposal.

**SECTION 14: OTHER INFORMATION**

The information presented herein has been compiled from sources considered to be reliable and is accurate to the best of BioBlend's knowledge; however, BioBlend makes no warranty whatsoever, expressed or implied, of merchantability or of fitness for a particular purpose, regarding the accuracy of such data or the results to be obtained from the use thereof. BioBlend assumes no responsibility for injury to recipient or to third persons or for any damage to property; recipient assumes all such risks.

# Material Safety Data Sheet

## SCP

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	B

24 hr. Emergency Contact (CHEMTREC) US Tel: 1- 800 - 424-9300 - Int'l. Tel. 703 - 527 - 3887

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

SUPPLIER: AQUA CLEAR INC.  
608 VIRGINIA ST. EAST  
CHARLESTON W.V. 25301

PRODUCT NAME: SCP

PRODUCT USE/CLASS: Shale Control

MSDS REVISION DATE: 1/22/04

PHONE 304-343-4792

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	EXPOSURE LIMITS	CAS#	% BY WEIGHT
ETHYLENE GLYCOL	ACGIH TLV – 50 ppm STEL OSHA PEL – 50 ppm CEILING	107-21-1	10-30 %

### 3. HAZARD IDENTIFICATION

**EYE:** Severely irritating. If not promptly removed, product will injure eye tissue, which may result in permanent damage.

**SKIN:** May cause skin irritation. Allergic reactions are possible.

**INGESTION:** This material may be harmful or fatal if swallowed. May be irritating to mouth, throat, and stomach.

**INHALATION:** Prolonged inhalation may be harmful. May be irritating to mucous membranes and lung tissue.

**CHRONIC INFORMATION:** Over exposure may cause central nervous system, lung, kidney, or liver damage.

**PRIMARY ROUTE(S) OF ENTRY:** Skin contact, Inhalation, and Eye contact

### 4. FIRST AID MEASURES

**EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention, if irritation persists.

**SKIN CONTACT:** Wash with soap and water. Get medical attention if irritation develops or persists.

**INHALATION:** Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

**INGESTION:** If swallowed induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious person. Contact a poison control center or medical personnel immediately.

### 5. FIRE FIGHTING MEASURES

FLASH POINT: 350 F  
(TAGLIABUE CLOSED CUP)

LOWER EXPLOSIVE LIMIT: N.D.  
UPPER EXPLOSIVE LIMIT: N.D.

# Material Safety Data Sheet

## SCP

**AUTOIGNITION TEMPERATURE:** N.D.

**EXTINGUISHING MEDIA:** ALCOHOL FOAM    CO2    DRY CHEMICAL    WATER FOG

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Can release vapors that form explosive mixtures at temperatures at or above the flash point. Empty containers retain product residue (liquid and/or vapor) and can be dangerous.

**SPECIAL FIRE FIGHTING PROCEDURES:** Containers can build up pressure if exposed to heat (fire). As in any fire, wear a self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Apply alcohol-type foam or all purpose foam manufacturers recommended techniques for large fires. Use carbon dioxide or dry chemical for small fires. Use water spray to keep containers cool.

### 6. ACCIDENTIAL RELEASE MEASURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Extinguish any possible ignition source until the area is determined to be free from fire or explosion hazard. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. (See exposure controls / personal protection section) Spilled material should be disposed of according to applicable regulations.

### 7. HANDLING AND STORAGE

**HANDLING:** Handle all chemicals with care. Ground and bond containers when transferring materials.

**STORAGE:** Keep away from heat, sparks, and flames. Keep container closed when not in use. Store in a cool, dry, well ventilated place away from incompatible materials.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Local exhaust ventilation may be necessary to control any air contaminants to within their exposure limits.

**RESPIRATORY PROTECTION:** No protection needed under normal use and conditions. Use a NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge when airborne concentrations are expected to exceed exposure limits. Protection by air purifying respirators is limited.

**SKIN PROTECTION:** When contact is likely wear chemical resistant gloves and boots.

**EYE PROTECTION:** Wear safety glasses with side shields or goggles.

**OTHER PROTECTIVE EQUIPMENT:** Emergency eye wash stations and deluge showers should be available in the work area.

**HYGIENIC PRACTICES:** Wash hands before eating. Use only with adequate ventilation. Remove contaminated clothing and wash before reuse.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:**

**ODOR:** N.D.

**BOILING POINT (RANGE):** 286-387 F

**FREEZE POINT:** N.D.

**VAPOR DENSITY:** N.D.

**VAPOR PRESSURE:** N.D.

**PHYSICAL STATE:** Liquid

**SOLUBILITY IN WATER:** Partial

**PH (AS IS):** 6-8

**SPECIFIC GRAVITY:** 1.0740

### 10. STABILITY AND REACTIVITY DATA

**CONDITIONS TO AVOID:** Avoid temperature extremes. Excessive heat causes the vapor pressure to increase rapidly.

# Material Safety Data Sheet

## SCP

**INCOMPATIBILITY:** Avoid contact with strong acids and oxidizers.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon and hydrogen.

**HAZARDOUS POLYMERIZATION:** Will not occur under normal use and storage conditions.

**CHEMICAL STABILITY:** This product is stable under normal storage conditions.

### 11. TOXICOLOGICAL INFORMATION

**ORAL:** No product information is available.

**DERMAL:** No product information is available.

**INHALATION:** No product information is available.

### 12. ECOLOGICAL INFORMATION

**ECOTOXICITY:** No product information is available.

**CHEMICAL FATE INFORMATION:** No product information is available.

### 13. DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL:** Consult local, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations. Disposal in streams or sewers may be prohibited by federal, state, and local regulations.

**RCRA STATUS:** None

### 14. TRANSPORTATION INFORMATION

#### (NON-BULK SHIPMENTS)

**D.O.T. PROPER SHIPPING NAME:** Not Regulated

**D.O.T. TECHNICAL NAME:** Non-hazardous for D.O.T. purposes

**D.O.T. HAZARD CLASS:** N/A

**HAZARD SUBCLASS:** N/A

**D.O.T. UN NUMBER:** N/A

**PACKING GROUP:** N/A

**RESP. GUIDE PAGE:** N/A

#### (BULK SHIPMENTS)

**D.O.T. PROPER SHIPPING NAME:** Not Regulated

**D.O.T. TECHNICAL NAME:** Non-hazardous for D.O.T. purposes

**D.O.T. HAZARD CLASS:** N/A

**HAZARD SUBCLASS:** N/A

**D.O.T. UN NUMBER:** N/A

**PACKING GROUP:** N/A

**RESP. GUIDE PAGE:** N/A

**T.D.G. PROPER SHIPPING NAME:** Not Regulated

**T.D.G. TECHNICAL NAME:** N/A

**T.D.G. HAZARD CLASS:** N/A

**HAZARD SUBCLASS:** N/A

**T.D.G. UN NUMBER:** N/A

**PACKING GROUP:** N/A

**RESP. GUIDE PAGE:** N/A

**IMDG PROPER SHIPPING NAME:** Not Regulated

**IMDG TECHNICAL NAME:** N/A

**IMDG HAZARD CLASS:** N/A

**HAZARD SUBCLASS:** N/A

**IMDG UN NUMBER:** N/A

**PACKING GROUP:** N/A

**EmS No.:** N/A

### 15. REGULATORY INFORMATION

**CERCLA – SARA HAZARD CATEGORY:**

# Material Safety Data Sheet

## SCP

SECTION 311/312: This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

**IMMEDIATE HEALTH HAZARD      CHRONIC HEALTH HAZARD**

SARA SECTION 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

<u>COMPONENT</u>	<u>CAS#</u>	<u>% BY WEIGHT</u>
Ethylene Glycol	107-21-1	10-30 %

### TSCA STATUS:

All components of this product are listed on the Toxic Substance Control Act Inventory or are excluded from the listing requirements.

### INTERNATIONAL REGULATIONS:

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

**CANADIAN WHMIS CLASS: D-2B**

### CANADIAN ENVIRONMENTAL PROTECTION ACT:

All components of this product are listed on the Canadian Domestic Substance List (DSL).

### 16. OTHER INFORMATION

**HMIS RATING – HEALTH: 1      FLAMMABILITY: 1      REACTIVITY: 0      PERSONAL PROTECTIVE RATING: B**

**LEGEND: N.A. – NOT APPLICABLE, N.E. - NOT ESTABLISHED, N.D. – NOT DETERMINED**

THIS PRODUCT'S HEALTH AND SAFETY INFORMATION IS PROVIDED TO ASSIST OUR CUSTOMERS IN ASSESSING COMPLIANCE WITH HEALTH, SAFETY AND ENVIRONMENTAL REGULATIONS. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE TO US, AND IS BELIEVED TO BE ACCURATE, ALTHOUGH NO GUARANTEE OR WARRANTY IS PROVIDED OR IMPLIED BY THE COMPANY IN THIS RESPECT. SINCE THE USE OF THIS PRODUCT IS WITHIN THE EXCLUSIVE CONTROL OF THE USER, IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE CONDITIONS OF SAFE USE. SUCH CONDITIONS MUST COMPLY WITH ALL GOVERNMENTAL REGULATIONS.

**MATERIAL SAFETY DATA SHEET**  
**TC Defoamer**

Date: August 28, 2005

**I Company Identification**

Company Name: TJC Enterprises Inc  
Mailing Address: 2616 County Squire  
Uniontown, OH 44685  
Telephone: 330-283-3862  
Emergency Number: PERS (800) 633-8253

**II Product Identification**

Product Name: TC Defoamer  
Chemical Description: Defoamer  
Cas Number: 64742-47-8  
OSHA Hazard: No  
Percentage: 60-100%

**III Typical Physical Properties**

Physical Appearance: Off-white thin liquid  
Odor: Mild  
PH: N/A  
Boiling Point: 93 to 206° C (199 to 403° F) @ 760 mmHg  
Specific Gravity: 0.81 @ 25° C (77° F)  
Evaporation Rate: <1 (Butyl Acetate = 1)  
Vapor Pressure: <2 mmHg @ 20° C (68° F)  
% Volatile by volume: 16  
Solubility in Water: Dispersible

**IV Reactivity Data**

Chemical Stability: This material is stable under normal handling and storage conditions  
Conditions to Avoid: Combustible materials, electric arcs, open flame, spark, and static electricity

2616 County Squire, Union Town, OH 44685, Ph. No. 330-283-3862

Materials to Avoid: Strong oxidizing agents  
Hazardous  
Decomposition  
Products: Oxides of Aluminum, oxides of Carbon, or Hydrocarbon  
residue  
Hazardous  
Polymerization: Will not occur

## **V Fire and Explosion Hazard Data**

Flashpoint: 68° C (151° F)  
Flammability Class: Combustible  
Extinguishing Media: Dry chemical, foam, carbon dioxide, DO NOT USE:  
water, (burning material will float)  
Special Firefighting  
Procedures: Firefighters should wear NOISH/MSHA approved  
self-contained breathing apparatus and full protective  
clothing. Move containers from fire area if you can do so  
without risk. Cool containers exposed to fire with water.  
Dike area to prevent runoff and contamination of water  
sources. Dispose of fire control water later  
Unusual Fire and  
Explosion Hazards: Containers may explode (due to build-up of pressure)  
when exposed to extreme heat  
Acute:  
Eye Contact: Irritant. May cause eye injury, which may persist for  
several days  
Skin Contact: Skin absorption is not likely. May cause redness or  
swelling  
Ingestion: Practically nontoxic  
Inhalation: Harmful if inhaled. Mists may cause chemical pneumonia,  
upper respiratory tract irritation, depression, dizziness, or  
headache

## **V Fire and Explosion Hazard Data-Continued**

Chronic Effects: This product does not contain any ingredient designated by  
IRA, NIP, AGCY, or OSIER as rubble or suspected human  
carcinogens. Prolonged contact may cause liver damage  
and kidney damage

## **VI Recommended First Aid Measures**

Eye Exposure: Hold eyelids open and flush with a steady, gentle stream of  
water for at least 15 minutes. Seek medical attention

Skin Exposure:	In case of contact, immediately wash with plenty of soap and water for at least 5 minutes. Seek medical attention if irritation develops or persists. Remove contaminated clothing and shoes. Clean contaminated clothing and shoes before reuse
Inhalation Exposure:	Remove victim from immediate source of exposure and assure that the victim is breathing. If breathing is difficult, administer oxygen, if available. If victim is not breathing, administer CPR (cardio-pulmonary resuscitation). Seek medical attention
Ingestion Exposure:	If victim is conscious and alert, give 2-3 glasses of water to drink and do not induce vomiting. Seek medical attention. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously. If vomiting occurs and the victim is conscious, give water to further dilute the chemical
Notes to Physician:	All treatments should be based on severe signs and symptoms of depression in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Ingestion: Gastric decontamination including emesis is virtually never warranted, because of the poor absorption and low toxicity of aliphatic hydrocarbons and petroleum distillates. Both emesis and gastric lavage carry significant risk of aspiration pneumonitis. Spontaneous emesis

## **VI Accidental Release Measures**

Evacuation Procedure & Safety:	Wear appropriate protective gear for the situation. See personal protection information. Eliminate all sources of ignition until the area is determined to be free from explosion or fire hazards. Place leaking containers in a well-ventilated area. Spilled materials may make the floor slippery. Do not leave traces of product on floors, ladders, etc., as this may present a slipping hazard
Containment of Spills:	Dike spill using absorbent or impervious materials such as earth, sand, or clay. Stop leak if it can be done without risk
Waste Disposal:	Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and

	local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material
Clean up & Disposal of Spills:	Absorb with an inert absorbent. Shovel up into an appropriate closed container. Use non-sparking tools. Recover material, if possible
Environmental & Regulatory Reporting:	Do not flush to drain. Runoff from fire control or dilution water, may cause pollution. Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies. Prevent material from entering public sewer systems and waterways

## **VII Handling & Storage**

Handling:	Do not breathe vapors and mists. Avoid direct or prolonged contact, with skin and eyes. Use non-sparking tools and grounded/bonded equipment and containers when transferring. Keep containers closed when not being used
Storage:	Store in tightly closed containers. Store in an area that is diked, well-ventilated, away from combustible materials, and away from ignition sources

## **VIII Exposure Controls/ Personal Protection**

Appropriate Hygienic Practices:	As part of good industrial, personal hygiene and safety procedure, avoid all unnecessary exposure to the product and ensure prompt removal from eyes, skin and clothing. Maintain good housekeeping to control dust accumulations.
---------------------------------	--

### **Personal Protection Equipment**

Eye Protection:	Eye and face protection requirements will vary dependent upon work environment conditions and materials handling
-----------------	--

practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended of this material

Skin Protection:

Skin contact should be minimized through use of gloves and suitable long-sleeved clothing. Consideration must be given both to durability as well as permeation resistance

### **IX Additional Information**

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness.

The conditions or methods of handling, storage, use and disposal are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use or disposal of the product

\*n/a= Not Applicable