Material Safety Data Sheet

ANTI FOAM

1. Product and Company Identification

Material name	**ANTI FOAM**
Patent Number	Not available
Revision date	March-31-2011
Version No.	3
CAS #	Mixture
Product use	Defoamer
Manufacturer information	Clearwater™ International L.L.C. 100 Leetsdale Industrial Drive Leetsdale, PA 15056 US CHEMTREC 1-800-424-9300/703-527-3887
Emergency	CHEMTREC 1-800-424-9300/703-527-3887
Supplier information	Producers Service Corp. 109 South Graham St. Zanesville, OH 43701 US
Supplier emergency telephone number(s)	24hr customer Service 740-454-6253

2. Hazards Identification

Emergency overview	WARNING May be harmful by inhalation, in contact with skin and if swallowed. May cause eye and skin irritation. Suspect cancer hazard. Components of the product may be absorbed into the body by inhalation, ingestion and through the skin. Prolonged exposure may cause chronic effects.
OSHA regulatory status	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects	
Routes of exposure	Inhalation. Ingestion. Eye contact. Skin contact.
Eyes	May cause eye irritation. Do not get this material in contact with eyes.
Skin	Contact with skin can cause irritation and allergic reaction (sensitization) in some individuals. Do not get this material in contact with skin.
Inhalation	May be harmful by inhalation. Inhalation of mists/vapors of this product may cause dizziness, nausea, and respiratory tract congestion. Do not breathe dust/fume/gas/mist/vapors/spray.
Ingestion	May be harmful if swallowed. May cause delayed lung damage. May cause dizziness, incoordination, headache, nausea, and vomiting. Do not ingest.
Target organs	Eyes. Lungs. Respiratory system. Skin.

Chronic effects	Shortness of breath. Prolonged or repeated skin contact may cause skin irritation or allergic skin sensitization reaction. May cause delayed lung damage.
Signs and symptoms	Discomfort in the chest. Shortness of breath. Cough.
Potential environmental effects	Ecological injuries are not known or expected under normal use.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	30 - 60
2-Ethylhexanol	104-76-7	10 - 30
Paraffin waxes and Hydrocarbon waxes	8002-74-2	1 - 5

4. First Aid Measures

First aid procedures

Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin contact	Immediately flush skin with plenty of water. Remove and isolate contaminated clothing and shoes. Get medical attention if irritation develops or persists. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse.
Inhalation	Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately.
Ingestion	Rinse mouth. Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth to a victim who is unconscious or is having convulsions. Get medical attention immediately.
Notes to physician	In case of shortness of breath, give oxygen. Symptoms may be delayed.
General advice	If you feel unwell, seek medical advice (show the label where possible). In case of shortness of breath, give oxygen. Keep victim warm. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Flammable properties	None known.
Extinguishing media	
Suitable extinguishing media	Dry chemical, CO2, water spray or regular foam. Water may be ineffective.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.

Protection of firefighters

Protective equipment and precautions for firefighters

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Move containers from fire area if you can do it without risk. Do not scatter spilled material with high pressure water streams. Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out.

6. Accidental Release Measures

Personal precautions

Use personal protective equipment. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep out of low areas.

Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up

Should not be released into the environment.

Large Spills: Dike far ahead of liquid spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. After removal flush contaminated area thoroughly with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

Never return spills in original containers for re-use.

Other information

Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling

Use only with adequate ventilation. Wash thoroughly after handling. Avoid prolonged exposure. Do not empty into drains. Avoid release to the environment.

Storage

Keep away from heat and flame. Keep containers tightly closed in a cool, well-ventilated place. Store in a closed container away from incompatible materials. Store in accordance with local/regional/national/international regulation.

8. Exposure Controls / Personal Protection

Exposure limits

ACGIH

Components	CAS #	TWA	STEL	Ceiling
Paraffin waxes and Hydrocarbon waxes	8002-74-2	2 mg/m3	Not established	Not established

Engineering controls

Avoid exposure - obtain special instructions before use. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Personal protective equipment

Eye / face protection	Wear chemical goggles and face shield. Wear chemical goggles.
Skin protection	Protective gloves. Wear suitable protective clothing. Closed-toe shoes recommended.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. A NIOSH- approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.
General hygeine considerations	Avoid contact with eyes. Avoid contact with skin. Wash hands before breaks and immediately after handling the product. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance	Slurry - Liquid.
Color	Milky - White
Odor	Not available.
Odor threshold	Not available
Physical state	Liquid.
Form	Liquid.
pH	7 - 9
Melting point	33.8 °F (0.54 °C) estimated
Freezing point	Not available
Boiling point	390.2 °F (199 °C) estimated
Flash point	> 201 °F (> 93.9 °C)
Evaporation rate	Not available
Flammability	Not available.
Flammability limits in air, upper, % by volume	0.74 % estimated
Flammability limits in air, lower, % by volume	0.11 % estimated
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	0.97 - 1
Relative density	8.095 - 8.3454
Solubility (water)	Not available
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
VOC	10 % estimated

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Strong oxidizing agents. Strong acids.

Hazardous decomposition products Carbon oxides.

Possibility of hazardous reactions Will not occur under normal conditions.

11. Toxicological Information

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

2-Ethylhexanol	104-76-7	Oral LD50 Rat: 1516-2774 mg/kg
Paraffin waxes and Hydrocarbon waxes	8002-74-2	Oral LD50 Rat: >3750 mg/kg; Dermal LD50 Rabbit: >3600 mg/kg
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	Inhalation LC50 Rat: >2.18 mg/L/4H; Oral LD50 Rat: >2000 mg/kg; Dermal LD50 Rabbit: >2000 mg/kg

Sensitization Not expected to be hazardous by OSHA criteria.

Chronic effects Hazardous by OSHA criteria. Prolonged or repeated exposure may cause lung injury. Prolonged exposure may cause chronic effects.

Carcinogenicity Suspect cancer hazard.

Neurological effects Excessive exposure may cause central nervous system effects such as dizziness, drowsiness or headaches.

12. Ecological Information

Ecotoxicity

Ecotoxicity - Freshwater Algae Data

2-Ethylhexanol	104-76-7	72 Hr EC50 Scenedesmus subspicatus: 11.5 mg/L

Ecotoxicity - Freshwater Fish Species Data

2-Ethylhexanol	104-76-7	96 Hr LC50 Oncorhynchus mykiss: 32 mg/L [static]; 96 Hr LC50 Pimephales promelas: 27-29.5 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 29.7 mg/L [static]
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	96 Hr LC50 Pimephales promelas: >5000 mg/L

Ecotoxicity - Water Flea Data

2-Ethylhexanol	104-76-7	48 Hr EC50 Daphnia magna: 39 mg/L
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	48 Hr EC50 Daphnia magna: >1000 mg/L

Environmental effects Ecological injuries are not known or expected under normal use. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Ecotoxicity - Freshwater Algae Data

2-Ethylhexanol	104-76-7	72 Hr EC50 Scenedesmus subspicatus: 11.5 mg/L

Ecotoxicity - Freshwater Fish Species Data

2-Ethylhexanol	104-76-7	96 Hr LC50 Oncorhynchus mykiss: 32 mg/L [static]; 96 Hr LC50 Pimephales promelas: 27-29.5 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 29.7 mg/L [static]
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	96 Hr LC50 Pimephales promelas: >5000 mg/L

Ecotoxicity - Water Flea Data

2-Ethylhexanol	104-76-7	48 Hr EC50 Daphnia magna: 39 mg/L
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	48 Hr EC50 Daphnia magna: >1000 mg/L

13. Disposal Considerations

Disposal instructions Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.

14. Transport Information

Department of Transportation (DOT) Requirements

Not regulated as hazardous goods.

Department of Transportation (DOT) Requirements

Bulk

Not regulated as hazardous goods.

Department of Transportation (DOT) Requirements

Not regulated as dangerous goods.

Canadian Transportation of Dangerous Goods (TDG) Requirements

Not regulated as hazardous goods.

Canadian Transportation of Dangerous Goods (TDG) Requirements

Not regulated as dangerous goods.

IMDG

Not regulated as hazardous goods.

IMDG

Not regulated as dangerous goods.

IATA

Not regulated as hazardous goods.

IATA

Not regulated as dangerous goods.

15. Regulatory Information

Labelling

Contains 2-Ethylhexanol, Paraffin waxes and Hydrocarbon waxes, Petroleum distillates, hydrotreated heavy paraffinic

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

FEMA (Flavor and Extract Manufacturers Association) - FEMA Numbers

2-Ethylhexanol	104-76-7	3151
Paraffin waxes and Hydrocarbon waxes	8002-74-2	3216

U.S. - FDA - Direct Food Additives

Paraffin waxes and Hydrocarbon waxes	8002-74-2	21 CFR 172.615

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
Section 302 extremely hazardous substance	No
Section 311 hazardous chemical	Yes

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

International regulations

Canada - WHMIS - Ingredient Disclosure List

2-Ethylhexanol	104-76-7	1 %

State regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

U.S. - Massachusetts - Right To Know List

2-Ethylhexanol	104-76-7	Present
Paraffin waxes and Hydrocarbon waxes	8002-74-2	Present (fume)

U.S. - Minnesota - Hazardous Substance List

Paraffin waxes and Hydrocarbon waxes	8002-74-2	Present

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

2-Ethylhexanol	104-76-7	Present
Paraffin waxes and Hydrocarbon waxes	8002-74-2	Present

U.S. - Rhode Island - Hazardous Substance List

Paraffin waxes and Hydrocarbon waxes	8002-74-2	Toxic

U.S. - Texas - Effects Screening Levels - Long Term

2-Ethylhexanol	104-76-7	14 ppb ESL (odor); 74 µg/m3 ESL (odor)
Paraffin waxes and Hydrocarbon waxes	8002-74-2	2 µg/m3 ESL (fume)

U.S. - Texas - Effects Screening Levels - Short Term

2-Ethylhexanol	104-76-7	140 ppb ESL (odor); 740 µg/m3 ESL (odor)
Paraffin waxes and Hydrocarbon waxes	8002-74-2	20 µg/m3 ESL (fume)

16. Other Information

HMIS® ratings
Health: 2*
Flammability: 1
Physical hazard: 0
Personal protection: B

NFPA ratings
Health: 1
Flammability: 1
Instability: 0

Prepared by
Product Stewardship
515 Post Oak Blvd
Houston, TX 77027
+1-713-968-2306

Disclaimer
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.

Issue date March-31-2011

MSDS sections updated This document has undergone significant changes and should be reviewed in its entirety.