

# Material Safety Data Sheet EnviroLogic 146

#### Section 1 Chemical Product and Company Information

Terresolve Technologies Ltd.

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PRODUCT TRADE NAME: EnviroLogic ® 146

CAS NO: Not applicable for mixtures.

SYNONYMS: None. GENERIC/CHEMICAL NAME: Mixture.

PRODUCT TYPE: Biodegradable Hydraulic Fluid

PREPARATION/REVISION DATE: 03/07/97

TRANSPORTATION EMERGENCY PH NO: 1-800-661-3558

#### Section 2 Composition/Information On Ingredients

NAME

Natural ester base oil Proprietary ashless hydraulic additive

Fluidity modifier

This material has no known hazards under applicable laws.

#### Section 3 Hazards Identification

PRINCIPAL HAZARDS: This material has no known hazards.

See Section 11 for complete health hazard information.

#### Section 4 First Aid Measures

ORAL: DO NOT INDUCE VOMITING. If conscious, give 2 glasses of

water. Get immediate medical attention.

EYE: Flush with water at least 15 minutes. Get medical attention if

eye irritation develops or persists.

SKIN: Wash with soap and water. Get medical attention if irritation

develops. Launder contaminated clothing before reuse.

INHALATION: Remove exposed person to fresh air if adverse effects are

observed.



ADDITIONAL: Note to physician: Treat symptomatically.

Section 5 Firefighting Measures

FLASH POINT (Typical): >400 °F (Typical) (COC)

UPPER FLAMMABLE LIMIT: Not Determined.

LOWER FLAMMABLE LIMIT: Not Determined.

EXTINGUISHING MEDIA: CO2, dry chemical, or foam. Water can be used to cool

and protect exposed material.

SPECIAL FIREFIGHTING

PROCEDURES:

Recommend wearing self-contained breathing apparatus. Water may cause splattering. Material will float on

Toxic fumes, gases or vapors may evolve on burning.

water.

UNUSUAL FIRE &

**EXPLOSION HAZARDS:** 

AUTOIGNITION

Not Determined.

TEMPERATURE: EXPLOSION DATA:

Material does not have explosive properties.

### Section 6 Accidental Release Measures

SPILL PROCEDURES: Personal Protective Equipment must be worn, see Personal

Protection Section for PPE recommendations. Ventilate area if spilled in confined space or other poorly ventilated areas. Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on

inert material.

Check under Transportation and Labeling (DOT/CERCLA) and Other Regulatory Information Section (SARA) for hazardous substances to determine regulatory reporting

requirements for spills.

## Section 7 Handling and Storage

HANDLING PROCEDURES: Keep containers closed when not in use. Wash thoroughly

after handling. Empty container contains product residue which

may exhibit hazards of product.

STORAGE PROCEDURES: No special storage precautions required.

#### Section 8 Exposure Controls/Personal Protection

VENTILATION PROCEDURE: Use with adequate ventilation.

GLOVES PROTECTION: Use nitrile or neoprene gloves.



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EnviroLogic Products

EYE PROTECTION: Safety Glasses.

RESPIRATORY PROTECTION: Under normal use conditions, respirator is not usually

required. Use NIOSH/MSHA approved disposable dust/mist

mask if the recommended exposure limit is exceeded.

CLOTHING Long sleeve shirt is recommended.

RECOMMENDATION:

Section 9 Physical And Chemical Properties

VAPOR PRESSURE: Not Determined.

PH: Not Determined.

SPECIFIC GRAVITY: 0.92 at 15.6 Deg C

WATER SOLUBILITY: Insoluble.

PERCENT VOLATILE: Unknown.

VAPOR DENSITY: Not Determined.

EVAPORATION RATE: Not Determined.

ODOR: Mild

APPEARANCE: Golden liquid

VISCOSITY: 46 Centistokes at 40 Deg C (Typical)

ODOR THRESHOLD: Unknown.

BOILING POINT: Not Determined.

FREEZING POINT: Not Determined.

MOLECULAR WEIGHT: Not Determined

Section 10 Stability And Reactivity

STABILITY: Material is normally stable at moderately elevated

temperatures and pressures.

INCOMPATIBILITY: Oxidizing agents.

POLYMERIZATION: Will not occur.

THERMAL DECOMPOSITION: Smoke, carbon monoxide, aldehydes and other products of

incomplete combustion.

Section 11 Toxicological Information



ORAL TOXICITY: The LD50 in rats is > 5000 mg/kg. Based on data from

components or similar materials.

EYE IRRITATION: Not expected to cause eye irritation. Based on data from

components or similar materials.

SKIN IRRITATION: Not expected to be a primary skin irritant. Based on data

from components or similar materials. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying,

defatting and cracking of the skin.

DERMAL TOXICITY: The LD50 in rabbits is > 2000 mg/Kg. Based on data from

components or similar materials.

INHALATION TOXICITY: No data available to indicate product or components may be a

toxic inhalation hazard.

RESPIRATORY IRRITATION: If material is misted or if vapors are generated from heating,

exposure may cause irritation of mucous membranes and the upper respiratory tract similar to that observed with mineral oil. Based on data from components or similar materials. Under good industrial hygiene practices where all exposure limits are observed, respiratory irritation should not be a

problem.

DERMAL SENSITIZATION: No data available to indicate product or components may be a

skin sensitizer.

INHALATION SENSITIZATION: No data available to indicate product or components may be

respiratory sensitizers.

CHRONIC TOXICITY: No data available to indicate product or components present

at greater than 1% are chronic health hazards.

CARCINOGENICITY: No data available to indicate any components present at

greater than 0.1% may present a carcinogenic hazard.

MUTAGENICITY: No data available to indicate product or any components

present at greater than 0.1% are mutagenic or genotoxic.

REPRODUCTIVE TOXICITY: No data available to indicate either product or components

present at greater than 0.1% that may cause reproductive

toxicity.

TERATOGENICITY: No data available to indicate product or any components

contained at greater than 0.1% may cause birth defects.

OTHER: No other health hazards known.

EXPOSURE LIMITS: EXPOSURE LIMITS: Contains natural ester base oil. Under

conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH STEL of 10 mg per cubic

meter.



Section 12 Ecological Information

FRESHWATER FISH An environmental effects test program for freshwater fish is in

TOXICITY: progress.

FRESHWATER An environmental effects test program for freshwater

INVERTEBRATES TOXICITY: invertebrates is in progress.

ALGAE TOXICITY: Environmental effects data for algae is not available on all

materials.

SALTWATER FISH TOXICITY: Environmental effects data for saltwater fish is not available on

all materials.

SALTWATER Environmental effects data for saltwater invertebrates is not

INVERTEBRATES: available on all materials.

BACTERIA TOXICITY: An environmental effects test program for bacteria is in

progress.

MISCELLANEOUS TOXICITY: Environmental effects data for flora and fauna is not available on

all materials.

ENVIRONMENTAL FATE: Product shows a biodegradability of >94% as measured by CEC

L-33-T-82 test procedure. Based on actual data.

Section 13 Disposal Considerations

WASTE DISPOSAL: Material, if discarded, is not expected to be a

characteristic hazardous waste under RCRA. Waste management

should be in compliance with federal, state, and local laws.

Section 14 Transport Information

U.S.DOT BULK SHIPPING DESCRIPTION: Not applicable

U.S.DOT NON-BULK SHIPPING DESCRIPTION: Not applicable

IMDG SHIPPING DESCRIPTION: Not applicable.

ICAO SHIPPING DESCRIPTION: Not applicable.

ADR/RID HAZARD CLASS: Not applicable.

Section 15 Regulatory Information

U.S. TSCA All components of this material are on the US TSCA Inventory.

INVENTORY:

SARA EXT. HAZ. This product does not contain greater than 1.0% of any chemical

SUBST.: substance on the SARA Extremely Hazardous Substances list.

SARA SECTION 313: This product does not contain greater than 1.0% (greater than 0.1% for

carcinogenic substance) of any chemical substances listed under





# EnviroLogic<sup>ò</sup> 146 Hydraulic Oil

SARA Section 313.

None known.

CERCLA HAZARDOUS SUBSTANCES:

CAL. PROP. 65: This product does not contain chemical(s) known to the state of California

to cause cancer and/or birth defects based on maximum impurity

levels of components.

U.S. FUEL REGISTRATION:

Not applicable.

U.S. DEPT. OF AGRICULTURE:

This product has not been filed with the USDA to support H2 approvals.

EEC EINECS: All components are in compliance with the EC Seventh amendment

Directive 92 /32/EEC.

JAPAN MITI: All components are in compliance with the Chemical Substances

Control Law of Japan.

AUSTRALIA: All components are in compliance with chemical notification

requirements in Australia.

CANADA: All components are in compliance with the Canadian Environmental

Protection Act.

Section 16 Other Information NFPA CODE: Health: 1 Fire: 1 Reactivity: 0

HMIS CODE: Health: 1 Fire: 1 Reactivity: 0

PRECAUTIONARY LABELS: This material has no known hazards.

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