

# Safety Data Sheet

## ZanRite-L

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifier: ZanRite-L

**Common name (s):** Xanthan Gum

**Chemical Family:** Gums, Polysaccharides

**Synonyms:** N/A

#### 1.2 Manufacturer, Importer, and/or Responsible Party Information:

**Global Envirotech, Inc.**

PO Box 2329, Alvin, TX 77512, USA

T: 281.331.0155

#### Emergency Contact Information:

**CHEMTREC: 800.262.8200**

#### 1.3 Recommended Use of Chemical:

**Chemical Services:** Additive / Oilfield chemical/chemicals. Manufacture of substances.

**Use Restrictions:** N/A

### Section 2: HAZARDS IDENTIFICATION

#### 2.1 OSHA Hazard Classification: 29CFR1910.1200

Combustible Liquid - this material is considered hazardous under the criteria of the Federal OSHA Hazard Communication Standard C.4.3 (29CFR 1910.1200).

#### 2.2 GHS Classification

Flammable Liquid, Category 3

#### 2.3 GHS-Labeling

Warning

#### 2.4 Carcinogenicity:

100 % Petroleum Hydrocarbons Oral LD50, Rats >5g/Kg Dermal LD50, Rabbits >2g/Kg

#### EMERGENCY OVERVIEW:

Product may cause allergic reactions.

Primary Routes of Entry: Eye and skin contact, inhalation

Target Organs: Eyes, skin, respiratory tract

Medical Conditions Generally Recognized as

Aggravated by Exposure: Persons with preexisting skin and respiratory

conditions may be more susceptible to the effects of this product.

Carcinogenicity: Oil in product is not listed in the National Toxicology Program (NTP) Annual Report on Carcinogens and not listed as OSHA carcinogens. Highly refined mineral oils are classified as IARC Group 3 (not classifiable as to its carcinogenicity).

#### 2.5 Precautionary Statement:

Prevention: P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response: P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage: P403 + P235: Store in a well-ventilated place. Keep cool.

Disposal: P501: Dispose of contents/ container to an approved waste disposal plant

#### 2.6 Pictogram:



#### 2.7 Hazard Statement(s):

Precaution needed

**2.8 Description of Hazards Not Otherwise Classified:** N/A

#### 2.9 NFPA Classification:

Health Hazard: 1  
Fire Hazard: 1  
Reactivity Hazard: 0

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.1 Chemical Names and Concentrations:** Xanthan Gum and other Gum with application specific proprietary blend suspended in Mineral oil.

**Common Name:** Xanthan Slurry

**Synonyms:** Gums, Polysaccharides

**Chemical Abstract Service (CAS) No. :**

Xanthan Gum, CAS 11138-66-2, 40-50%

Oil (CAS#: Mixture including but not limited to: 100 EPS Quality Blend

8042-47-5, 64742-46-7, 64742-53-6)

**EC No.:**

Xanthan Gum (234-394-2)

**Any Other Unique Identifiers:** N/A

**Impurities and Stabilizing Additives:** None

**3.2 Recommended Use of Chemical:**

**Chemical Services:** ZanRite-L is used in drilling and completion operations.

**Use Restrictions:** N/A

**3.3 Trade Secret:** Is the specific chemical identify and/or exact concentration of composition withheld as a trade secret? YES

### Section 4: FIRST AID MEASURES

**4.1 Necessary First-Aid Instructions:**

**Inhalation:** If inhaled, move person into fresh air. If not breathing, give artificial respiration. Get medical attention for any breathing difficulty.

**Skin Contact:** In case of skin contact, wash off with soap and plenty of water.

**Eye Contact:** In case of eye contact, flush eyes with water as a precaution. Get medical attention if irritation develops.

**Ingestion:** If swallowed, never give anything by mouth to an unconscious person. Rinse mouth with water. Seek medical attention.

**Most Important Symptoms/Effects:** No data available

**4.2 Immediate Medical Care / Special Treatment:** Is immediate medical care or special treatment required? No data available

**If so, what is needed?** No data available

### Section 5: FIREFIGHTING MEASURES

**5.1 Suitable Extinguishing Equipment:** In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. When mixed with water becomes slippery.

**5.2 Extinguishing Equipment Not Appropriate:** N/A

**5.3 Specific Hazards Created from Chemical Burning:** Flammable liquid.

**5.4 Special Protective Equipment Needed:** Wear protective gloves/ protective clothing/ eye protection/ face protection.

### Section 6: ACCIDENTAL RELEASE MEASURES

**6.1 Personal Precautions:** Use appropriate protective equipment. Avoid creating and breathing liquid.

**6.2 Emergency Procedures:** Avoid vapor formation. Avoid breathing vapors, mist or gas. For personal protection see Section 8.

**6.3 Method(s) and Material(s) for Containment:** Sweep and/or shovel, and keep in suitable, closed containers for disposal. Keep away from ignition source. When in solution product can create slip hazard on smooth surface.

**6.4 Cleanup Procedure(s):** Sweep and shovel.

### Section 7: HANDLING AND STORAGE

**7.1 Handling Precautions:** Further processing of materials may result in the formation of flammable vapors. The potential for flammable vapor

formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where vapor is formed. Avoid formation of aerosol. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.

**7.2 Hygiene Practices:** Normal hygiene practices are sufficient.

**7.3 Safe Storage Recommendations:** No Smoking. Keep container tightly closed in a dry and well-ventilated place.

**7.4 Incompatible Storage Recommendations:** N/A

## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### ENGINEERING CONTROLS:

Ventilation: Provide adequate local exhaust ventilation to minimize worker exposure as described in ACGIH Industrial Ventilation Manual.

EXPOSURE CONTROLS: None established for the product.

For oil mist, mineral: ACGIH TLV-TWA: 5 mg/m<sup>3</sup>

ACGIH TLV-C: 10 mg/m<sup>3</sup> (ceiling)

OSHA PEL-TWA: 5 mg/m<sup>3</sup>

NIOSH REL-TWA: 5 mg/m<sup>3</sup>

NIOSH REL-ST: 10 mg/m<sup>3</sup>

The IDLH for oil mist (mineral) is 2500 mg/m<sup>3</sup>.

### PERSONAL PROTECTIVE EQUIPMENT:

Respiratory Protection: Use NIOSH approved respirator for overexposure.

Protective Gloves: Yes

Eye Protection: Safety Glasses

Other Protective Clothing or Equipment: Minimize skin contact.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid

**Color:** Light Brown

**Odor:** Hydrocarbon

**pH:** NDA

**Specific Gravity @ 20°C (Water=1):** 1.06

**Density @ 20°C (lbs. /gallon):** Not Determined

**Bulk Density @ 20°C (lbs. /ft<sup>3</sup>):** Not Determined

**Boiling Point/Range (F):** 424 - 460

**Boiling Point/Range (C):** 217.8 – 237.8

**Flash Point/Range (F):** 270 +

**Flash Point/Range (C):** 132 +

**Auto Ignition temperature:** > 270 + C

**Vapor Density (Air=1):** N/A

**Percent Volatiles:** Not Determined

**Evaporation Rate (Butyl Acetate=1):** N/A

**Solubility in Water (g/100ml):** Soluble-dispersible; makes colloidal solution

**Solubility in Solvents (g/100ml):** Varies upon nature of solvent

**VOCs (lbs. /gallon):** N/A

**Partition Coefficient/n-octanol/Water:** N/A

**Molecular Weight (g/mole):** Very high

## Section 10: STABILITY AND REACTIVITY

**10.1 Reactivity:** May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

**10.2 Chemical Stability:** Stable under recommended storage conditions.

**10.3 Possibility of Hazardous Reactions:** No data available

**10.4 Conditions to Avoid:** Heat, Flame and Sparks.

**10.5 Incompatible Materials:** Strong oxidizing agents.

**10.6 Hazardous Decomposition Products:** None

## Section 11: TOXICOLOGICAL INFORMATION

**11.1 Principle Route of Exposure:** Eye or skin contact and inhalation.  
**Inhalation:** May cause mild respiratory irritation.  
**Skin Contact:** May cause mild skin irritation.  
**Eye Contact:** May cause eye irritation.  
**Ingestion:** May cause mild gastric distress.  
**Aggravated Medical Conditions:** N/A  
**Chronic Effects/Carcinogenicity:** NDA  
**Other Information:** None known.

#### 11.2 Toxicity Tests:

**Carcinogenicity:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP, OSHA.

#### Acute oral toxicity

C12-C14 Isoalkanes : LD50: > 3,900 mg/kg

Species: rat

Distillates (petroleum), hydrotreated light: NDA

#### Acute inhalation toxicity

C12-C14 Isoalkanes: LC50: > 5.3 mg/l Exposure time: 4 h

Species: rat

Test atmosphere: dust/mist

Distillates (petroleum), hydrotreated light: NDA

#### Acute dermal toxicity

C12-C14 Isoalkanes: LD50: > 2,000 mg/kg

Species: rabbit

Distillates (petroleum), hydrotreated light: NDA

#### Repeated dose toxicity

C12-C14 Isoalkanes: Species: Monkey

Dose: 0, 654 ppm

Exposure time: 4 wk

Number of exposures: 6 h/d, 3 d/wk

NOEL: > 654 ppm

Concentrations substantially above the TLV value may cause narcotic effects. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Solvents may degrease the skin. Inhalation of vapors in high concentration may cause irritation of respiratory system.

**12.1 Mobility (water/soil/air):** No data available

**12.2 Persistence/Degradability:** Expected to be inherently biodegradable.

**12.3 Bioaccumulation Potential:** No data available

#### 12.4 Eco Toxicological Information:

##### Acute Fish Toxicity:

C12-C14 Isoalkanes: LL50: > 1,000 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout) semi-static test Method: OECD Test Guideline 203 Information given is based on data obtained from similar substances.

##### Toxicity to daphnia and other aquatic invertebrates:

C12-C14 Isoalkanes: EL50: > 1,000 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202 Information given is based on data obtained from similar substances.

Distillates (petroleum), hydrotreated light

EL50: > 100 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202 Aquatic toxicity is unlikely due to low solubility.

##### Toxicity to algae:

C12-C14 Isoalkanes: EL50: > 1,000 mg/l

Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (green algae)

Growth inhibition Method: OECD Test Guideline 201 Information given is based on data obtained from similar substances.

**12.5 Other adverse effects:** This material is not expected to be harmful to aquatic organisms. Information given is based on data on the ingredients and the ecotoxicology of similar products.

## Section 12: ECOLOGICAL INFORMATION

## Section 13: DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

**13.1 Disposal Method:** Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

**13.2 Contaminated Packaging:** Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on the empty drum.

#### **Section 14: TRANSPORT INFORMATION**

##### **14.1 Land Transportation:**

**DOT:** NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

Testing (ASTM D4206) has shown product does not sustain combustion.

**Canadian TDG:** Not restricted

**ADR:** Not restricted

**14.2 Air Transportation ICAO/IATA:** Not restricted

**14.3 Sea Transportation IMDG:** Not restricted

**14.4 Other Shipping Information Labels:** None

#### **Section 15: REGULATORY INFORMATION**

##### **15.1 US Regulations:**

**US TSCA Inventory:** All components listed on inventory.

**EPA SARA Title III Extremely Hazardous Substances:** Not applicable

**EPA SARA (311,312) Hazard Class:** Fire Hazard

**EPA SARA (313) Chemicals:** This product does not contain a toxic chemical for routine annual "Toxic Chemical Release Reporting" under Section 313 (40 CFR 372).

**EPA CERCLA/Superfund Reportable Spill Quantity for This Product:** Not Applicable

**EPA RCRA Hazardous Waste Classification:** If product becomes a waste, it does NOT meet the criteria of a hazardous waste as defined by the EPA.  
**California Proposition 65:** Components listed do not apply to the California Proposition 65 regulation.

**MA Right-to-Know Law:** One or more components listed.

**NJ Right-to-Know Law:** Does not apply.

**PA Right-to-Know Law:** One or more components listed.

##### **15.2 Canadian Regulations:**

**Canadian DSL Inventory:** All components listed on inventory.

**WHMIS Hazard Class:** Non-Controlled

#### **Section 16: OTHER INFORMATION**

**16.1 Additional Information:** For additional information on the use of this product, contact your local Global Envirotech, Inc. representative.

**16.2 Disclaimer Statement:** Copyright 2015 Global Envirotech, Inc. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Global Envirotech and its Affiliates shall not be held liable for any damage resulting from handling or contact with the above product. See [www.gloenv.com](http://www.gloenv.com) and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

**Preparation Information:**  
Global Envirotech, Inc.

Product Safety – Americas Region  
281.331.0155

Version: Revision Date: 01/14/2014  
Print Date: 06/19/2015