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**SAFETY DATA SHEET - SDS**

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Product: OXIMULSION 1228

Review: 00

Date: February 4<sup>th</sup>, 2019

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**1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

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Product: OXIMULSION 1228

Internal identification code: –

Relevant recommended uses: Industrial uses.

Company: OXITENO USA, LLC

Address: 9801 Bay Area Blvd  
PASADENA, TX  
77507

Phone number: (281) 909-7600

Fax: (630) 364-5120

Emergency Phone number: For Chemical Emergency - Spill, Leak, Fire, Exposure or Accident:  
Call CHEMTREC Day or Night 800-424-9300 (Domestic North America)  
International, Call +1 703-527-3887 (collect calls accepted).**2. HAZARDS IDENTIFICATION**

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**Classification:** Skin corrosion/irritation, Category 2  
Serious eye damage/eye irritation, Category 1  
Skin sensitization, Category 1  
Hazardous to the aquatic environment – acute, Category 2  
Hazardous to the aquatic environment – chronic, Category 3

**Label Elements:**

## • Hazard Pictograms:



## • Signal Word: DANGER

• Hazard Statements: H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H401 Toxic to aquatic life.  
H412 Harmful to aquatic life with long lasting effects.

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- **Precautionary Statements:** P261 Avoid breathing mist or vapours.  
P264 Wash thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or doctor/physician.  
P321 Specific treatment.  
P332 + P313 If skin irritation occurs: Get medical advice/attention.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P501 Dispose of contents / container in accordance with current legislation.

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**3. COMPOSITION AND INFORMATION ON INGREDIENTS**

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Product Type: Mixture.

**Impurities which contribute to the classification of the substance:** Sodium lauryl ether sulfate (CAS# 68891-38-3): ca. 28%. 1,3-Dimethylol-5,5-dimethyl hydantoin (CAS# 6440-58-0): < 0.6%.

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**4. FIRST-AID MEASURES**

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**Procedure in Case of:**

- **Ingestion:** Seek prompt medical attention. Do not induce vomiting. Vomiting should only be induced by medical personnel. If vomiting occurs, keep the head lower than chest to avoid aspiration into the lungs. Never give anything by mouth to an unconscious or convulsing person.
- **Inhalation:** Seek prompt medical attention. Remove victim to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.
- **Skin contact:** Remove contaminated clothing and shoes. Wash affected areas with plenty of running water, preferably under a shower. Seek prompt medical attention.
- **Eye contact:** Immediately flush with plenty of running water for at least 15 minutes, keeping eyelids open. Remove contact lenses if easy to do. Seek prompt medical attention.

**Most important symptoms/effects, acute and delayed:**

Ingestion – May cause: Gastrointestinal irritation.

Inhalation – Vapors from the liquid at high temperatures or mist of the product, in high concentrations, may cause irritation of the respiratory system.

Skin – May cause: Dryness. Dermatitis. Redness.

Eyes – Causes: Moderate to severe irritation. Hyperemia. Vascularization.

**Information for doctor:** There is not known any specific antidote. Direct the treatment in accordance with the symptoms and clinical conditions of the patient.

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**5. FIRE-FIGHTING MEASURES**

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**Extinguishing Media:** In case of fire, use: water spray, foam, dry chemical powder and carbon dioxide (CO<sub>2</sub>).

**Specific Hazards:** Product is not flammable. In case of combustion may generate toxic and/or irritant fumes containing: Oxides of sulfur, oxides of carbon. In reducing atmospheres may produce: Hydrogen sulfide (H<sub>2</sub>S).

**Protective measures for fire fighters:** Water jets should not be used directly on igniting products because it may disperse the material and intensify the fire. Self-contained breathing apparatus and protective clothing are required. Cool the intact fire-exposed containers with water spray and remove them.

**NFPA Rating:**

- **Health:** 3
- **Flammability:** 1
- **Instability:** 0
- **Special:**

**6. ACCIDENTAL RELEASE MEASURES**

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**Personal precautions, protective equipment and emergency procedures:** Isolate and signalize area. Keep heat and/or ignition sources away. Use personal protection equipment as indicated in Section 8, in order to avoid contact with spilled product.

**Environmental Precautions:** Prevent product from entering into soil and waterways. Notify the competent authorities if the product has run into drainage systems or watercourse or has contaminated the ground or vegetation.

**Methods and materials for containment and cleaning up:** Stop if possible. Contain and dike spilled product with earth or sand. Eliminate ignition or heat sources. Transfer to proper container. Collect remnants with an appropriate absorbent material. Wash the contaminated surface with water, which should be collected for disposal.

**7. HANDLING AND STORAGE**

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**Precautions for safe handling:** Use in a well-ventilated area. Avoid inhalation and contact with eyes, skin or clothing through proper protection. If occurs accidental contact, exposed area should be washed immediately. Emergency eyewashes and showers shall be located in accessible locations. Wash hands and face thoroughly after handling. Wash contaminated clothing before reuse.

**Conditions for safe storage:** Store in a covered and well-ventilated area, away from sunlight and sources of heat or open flames. Ensure that the storage location has adequate moisture, pressure and temperature. Keep containers tightly closed when not in use. After exposure to low temperatures, the product thickens and freeze or may exhibit heterogeneity, which is reversible upon heating and homogenization of the product up to 25°C (77°F). Tanks should be kept temperature between 25 and 40 °C.

**Incompatibilities:** Avoid contact with: Oxidizing materials.

**Packaging Material:** Recommended: Stainless steel. Coated steel with: Vinyl ester resin. Polyester resin reinforced with fiber glass. Unsuitable: Aluminum. Zinc. These metals alloys.

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**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

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**Control parameters:**

- **TLV-TWA (ACGIH):** 1,4-Dioxane: 20 ppm; 72 mg/m<sup>3</sup> [Skin][A3].  
A3 - Confirmed animal carcinogen with unknown relevance to humans.  
Skin - Danger of cutaneous absorption.
- **PEL-TWA (OSHA):** 1,4-Dioxane: 100 ppm; 360 mg/m<sup>3</sup> [Skin].  
Skin - Danger of cutaneous absorption.
- **TLV-STEL (ACGIH):** Not established.
- **LT(NR15):** Not established.
- **Odor Threshold:** Not available.
- **IDLH:** 1,4-Dioxane: 500 ppm.
- **Biological Exposure Indices (ACGIH):** Not established.

**Engineering Control Measures:** In closed environments, this product should be handled keeping proper exhaust (general diluter or local exhaust).

**Individual Protection Measures:**

- **Eye Protection:** Side shields or wide vision safety goggles.
- **Skin Protection:** PVC apron. It is recommended to adopt safety boots/shoes.
- **Hand protection:** Gloves made of: Rubber, PVC (Polyvinyl chloride).
- **Breathing equipment:** In case of emergency or contact with high concentrations of the product, wear an air supplied mask or self-contained breathing apparatus. It is recommended to wear face mask with organic vapors cartridge in case of exposure to vapors/aerosols.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

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**Appearance:** Liquid. Clear.

**Odour and Odour threshold:** Not available.

**pH:** 7.0 to 9.0 (sol. 10% / 25 °C).

**Melting point/Freezing point:** 0 °C (beginning of turbidity).

**Initial Boiling Point and Boiling Range:** > 100 °C.

**Flash point:** > 149 °C. (Closed cup).

**Evaporation rate:** Not available.

**Flammability (solid, gas):** Not available.

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**Upper/lower flammability or explosive limits:** Not available.**Vapour pressure:** 3 kPa (25 °C / calculated).**Vapour density (air = 1):** Not available.**Relative density (water=1):** 1050 kg/m<sup>3</sup> (25 °C).**Apparent density:** Not available.**Solubility:** Completely soluble in water (20 °C).**Partition Coefficient n-octanol/water:** Not available.**Auto-ignition temperature:** Not available.**Decomposition temperature:** Not available.**Viscosity:** ca. 100 mPa.s (20 °C).

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**10. STABILITY AND REACTIVITY**

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**Chemical stability:** Stable under normal conditions of use and storage.**Reactivity:** No hazardous reactivity is expected.**Possibility of Hazardous Reactions:** Not polymerize.**Conditions to avoid:** High temperatures, ignition sources and prolonged exposure to the air.**Incompatible materials:** Avoid contact with: Oxidizing materials.**Hazardous decomposition products:** In case of combustion may generate toxic and/or irritant fumes containing: Oxides of carbon, oxides of sulfur. In reducing atmospheres may produce: Hydrogen sulfide (H<sub>2</sub>S).**Considerations on the use of the product:** Not applicable.

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**11. TOXICOLOGICAL INFORMATION**

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**Acute Toxicity:**

- **Oral:** Sodium lauryl ether sulfate - LD<sub>50</sub>, rat: 4100 mg/kg.
- **Inhalation:** Sodium lauryl sulfate - LC<sub>50</sub>, 1h, rat: > 3900 mg/m<sup>3</sup>.
- **Dermal:** Sodium lauryl ether sulfate - LD<sub>50</sub>, rat: > 2000 mg/kg.

**Skin corrosion/irritation:** Sodium lauryl ether sulfate - Moderate irritation: 25 mg, 24h, rabbit.**Serious eye damage/eye irritation:** Sodium lauryl ether sulfate - Severe irritation: 100 µL, 24h, rabbit.

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**Respiratory or skin sensitization:** 1,3-Dimethylol-5,5-dimethyl hydantoin - Epidemiological studies demonstrate potential for dermal sensitization.

**Germ cell mutagenicity:** Sodium lauryl sulfate - Negative for:

In vitro: Ames test, mammalian cell gene mutation assay (mouse lymphoma cells), sister chromatid exchange (Chinese hamster cells).

In vivo: dominant lethal assay (mouse), chromosome aberration assay (rat), micronucleus assay (mouse).

**Carcinogenicity:** Sodium lauryl sulfate - NOEL, oral, rat: > 1125 mg/kg/day (carcinogenicity).

**Reproductive toxicity:**

Sodium lauryl sulfate -

NOAEL, mice: 1000 mg/kg/day (male fertility).

NOAEL, mice: < 300 mg/kg/day (maternal toxicity).

NOAEL, rabbit: 400 mg/kg/day (resorption/litter loss).

NOAEL, rabbit: 600 mg/kg/day (fetal malformation).

**Specific target organ toxicity – Single exposure:** Not available.

**Specific target organ toxicity - Repeated exposure:** Sodium lauryl sulfate - NOAEL, rat: 100 mg/kg/day (hepatotoxicity).

**Aspiration hazard:** Not available.

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**12.ECOLOGICAL INFORMATION**

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**Ecotoxicity:**

Sodium lauryl ether sulfate -

Fish -

LC50, 96 h, Oncorhynchus mykiss: 10.4 mg/L [semi-static].

LC50, 96 h, Brachydanio rerio: 7.1 mg/L [flow-through].

NOEC, 45 d, Pimephales promelas: 1 mg/L [flow-through].

Invertebrate -

EC50, 48 h, Daphnia magna: 7.2 mg/L [static].

EC50, 48 h, Ceriodaphnia dubia (water flea): 2.43 - 4.01 mg/L.

NOEC, 21 d, Daphnia magna: 0.72 mg/L [semi-static].

Algae -

EC50, 72 h, Desmodesmus subspicatus: 27 mg/L [static].

NOEC, 72 h, Desmodesmus subspicatus: 0.93 mg/L [static].

**Persistence and Degradability:** Readily biodegradable. 65% after 28 days.

**Bioaccumulative Potential:** Not available.

**Mobility in soil:** Not available.

**Other Adverse Effects:** Water hazard class 2: Hazard to water.

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**13.DISPOSAL CONSIDERATIONS**

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**Recommended methods of disposal:**

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- **Product:** The preferred options for disposal include reuse, recycling, co-processing, finding a use for a by-product incineration or other thermal destruction process at licensed facilities. All procedures must follow specific operation standards in order to reduce health, safety and environmental risks. Perform co-processing, incineration or other thermal destruction process at facilities capable of minimizing or reducing air pollution emissions. The disposal must comply with federal, state, and local laws and regulations in accordance with the environmental agencies.

- **Product Remains:** Same method as indicated for product.

- **Packaging:** Do not cut or pierce the packaging, nor do hot work near them. Do not remove labels until the product has been fully removed and the packaging cleaned. The preferred options for disposal include reuse, recycling or reclamation at licensed facilities. All procedures must follow specific operation standards in order to reduce health, safety and environmental risks. The disposal must comply with local legislation and in accordance with standards from local environmental agencies.

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**14. TRANSPORT INFORMATION**

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**Land Transport ANTT:** Product not classified as hazardous in accordance with Resolution 5232/2016 - Transport Ministry.

- **UN number:** N/A
- **Proper Shipping Name:** Not classified.
- **Hazard Class:** Not classified.
- **Hazard Number:** Not classified.
- **Packaging Group:** Not classified.

**Maritime Transport IMDG:** Product not classified as hazardous in accordance with IMDG Code - 2016 Edition – IMO (International Maritime Organization).

- **UN number:** N/A
- **Proper Shipping Name:** Not classified.
- **IMDG Class:** Not classified.
- **Packaging Group:** Not classified.
- **EmS:** Not classified.

**Air Transport ICAO-TI and IATA-DGR:** Product not classified as hazardous in accordance with Dangerous Goods Regulations - 57th Edition - IATA (International Air Transport Association).

- **UN number:** N/A
- **Proper Shipping Name:** Not classified.
- **ICAO/IATA Class:** Not classified.
- **Label:** Not classified.
- **Packaging Group:** Not classified.

**Land Transportation U.S DOT:** Product not classified as hazardous in accordance with U.S. DOT (United States Department of Transportation) - 49 CFR 172.101.

- **Packaging Type:** Bulk and Non-bulk
- **Proper Shipping Name:** Not classified.
- **Hazard Class or Division:** Not classified.
- **ID Number:** Not classified.
- **Packaging Group:** Not classified.
- **Remarks:** Not classified.

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**15. REGULATORY INFORMATION**

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**Applicable Standards:**

Resolution 5232/2016 – Transport Ministry.

IMDG Code - 2016 Edition - IMO (International Maritime Organization).

Dangerous Goods Regulations – 57<sup>th</sup> Edition - IATA (International Air Transport Association).

U.S.A Department of Transportation – DOT – 49 CFR 172.101.

OSHA - Occupational Safety &amp; Health Administration – U.S. Department of Labor Equistar Chemical, LP, Houston TX (EUA).

**OSHA Hazard Communication Standard:** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.**SARA Title III - Sections 311 / 312 (40 CFR 370 Subparts B and C):**

Immediate (Acute) Health Hazard: Yes.

Delayed (Chronic) Health Hazard: No.

Fire Hazard: No.

Sudden Release of Pressure Hazard: No.

Reactive Hazard: No.

**SARA Title III - Section 313 (40 CFR 372.65):** This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.**SARA Title III - Section 302 (40 CFR 355 Appendix A):** This product does not contain a chemical which is listed in Section 302.**CERCLA (40 CFR 302.4) / SARA 304**

1,4-Dioxane (CAS 123-91-1): &lt; 1000 ppm. RQ: 100 lbs.

Reportable Quantity (RQ) of this product is 100 000 pounds based upon 1,4-Dioxane which yielded the lowest resultant RQ according to the following formula: CERCLA ingredient RQ/ % of that ingredient in the product.

**New Jersey Hazardous Substance List**1,4-Dioxane (CAS 123-91-1): Substance# 0789 (Special Health Hazard Code: CA – Carcinogen; F3 – Flammable 3<sup>rd</sup> degree).**California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act)**

WARNING! This product contains a chemical known to the State of California to cause cancer.

- 1,4-Dioxane.

**Pennsylvania Hazardous Substance List**

1,4-Dioxane (CAS 123-91-1): Listed also as an environmental hazard and as a special hazardous substance.

**Inventory Status**

United States &amp; Puerto Rico – Toxic Substances Control Act (TSCA) Inventory: Yes

Canada – Domestic Substances List (DSL): Yes

Canada – Non-Domestic Substances List (NDSL): No

Europe – European Inventory of Existing Commercial Chemical Substances (EINECS): No

Europe – European List of Notified Chemical Substances (ELINCS): No

Australia – Australian Inventory of Chemical Substances (AICS): Yes

Philippines – Philippine Inventory of Chemicals and Chemical Substances (PICCS): Yes

Japan – Inventory of Existing and New Chemical Substances (ENCS): No

Korea – Existing Chemicals List (ECL): Yes

China – Inventory of Existing Chemical Substances in China (IECSC): Yes



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New Zealand – New Zealand Inventory: Yes

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

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**16. OTHER INFORMATION**

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**Remarks:** Not available.

**Sources:**

2016 TLVs and BEIs – Based on the Documentation of the Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices – ACGIH.

2016 Guide to Occupational Exposure Values – ACGIH.

eChemPortal - The Global Portal to Information on Chemical Substances.

LOLI - ChemADVISOR's Regulatory Database.

ExPub - Expert Publishing Database.

**Abbreviations and acronyms:**

ACGIH: American Conference of Governmental Industrial Hygienists (USA).

ADR: European agreement concerning the international carriage of dangerous goods by road.

CAS: Chemical Abstracts Service (American Chemical Society - EUA).

EC50: Average concentration for 50% of maximum response.

LC: Lethal Concentration - substance concentration in the environment that leads to death after a certain period of exposure.

LC50: Lethal concentration for 50% of the test animals.

BOD: Biochemical Oxygen Demand.

LD50: Lethal Dose for 50% of the test animals.

LDLo: Lethal Dose Low - minimal amount of a chemical lethal to animals in testing.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GHS: Globally Harmonized System of Classification and Labelling of Chemicals.

IARC: International Agency for Research on Cancer.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods by Regulations by the IATA

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the ICAO.

IMDG: International Maritime Code for Dangerous Goods.

IDLH - Immediately Dangerous To Life or Health Concentrations.

Kow: Octanol/water partition coefficient.

LT (NR 15): Exposure limits of the standard number 15 - Unhealthy Operations and Activities from the Ministry of Labour and Employment of Brazil.

LOAEL: Lowest Adverse Effect Level

LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database

NLP: No Longer Polymers.

NIOSH: National Institute for Occupational Safety and Health.

NOAEL: No Observed Adverse Effect Level

NTP: National Toxicology Program.

OSHA: Occupational Safety and Health Administration (EUA).

PEL-TWA: Exposure Limit Allowed – time-weighted average.

RID: Regulations concerning the international transport of dangerous goods by rail.

TLV-STEL: Tolerance Limit - short period of time (15 minutes, maximum).

TLV-TWA: Tolerance Limit – time weighted average.

WGK: Wassergefährdungsklasse (Germany) - Water Hazard Class.

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This Safety Data Sheet was authored according to our current knowledge and experience, however cannot imply guarantee of any nature. Considering the variety of factors that can affect their process or application, the information on this sheet does not exempt the processors from the responsibility of executing their own tests and experiments.