SAFETY DATA SHEET

Revision Date 05-Nov-2019 **Revision Number** 1

1. IDENTIFICATION

Product identifier

Product Name ULTRAPEG 1450

Other means of identification Not available

Recommended use of the chemical and restrictions on use

Recommended Use Industrial use

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address
OXITENO USA, LLC
3200 Southwest Freeway
Suite 1200
Houston, TX 77027

Emergency telephone number

Company Phone Number (346) 718-6200

Emergency Telephone Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label elements

None needed according to classification criteria.

Physical state Solid

Other hazards which do not result in classification
Causes mild skin irritation

Hazards not otherwise classified (HNOC)
Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical name	CAS No	Weight-%	Trade secret
Polyethylene glycol	25322-68-3	60 - 100	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

Inhalation Remove to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. Remove contact lenses, if present and easy to do. Continue rinsing.

Skin contact Wash with plenty of water. Remove and isolate contaminated clothing and shoes.

Ingestion Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO2, water spray or alcohol-resistant foam.

Unsuitable extinguishing media CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical Not flammable.

Hazardous combustion products Carbon oxides.

Special protective equipment for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation.
For emergency responders	Use personal protection recommended in Section 8.

Environmental precautions

Environmental precautions	See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions	Protect from sunlight. Store in a well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep container closed when not in use.
Packaging materials	polypropylene. stainless steel 304/307. stainless steel 316.
Incompatible materials	Acids. Strong oxidizing agents. Combustible material.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Hand protection	Wear suitable gloves. PVC (polyvinyl chloride). Rubber gloves.
Skin and body protection	PVC apron. Protective shoes or boots.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Solid @25 °C
Color	white
Odor	No information available
Odor threshold	No information available

Property	**Values**	**Remarks • Method**
pH	5 - 7	
Melting point / freezing point	48 °C / 118 °F	
Boiling point or initial boiling point and boiling range	No data available	
Flash point	> 250 °C / 482 °F	CC (closed cup)
Evaporation rate	No data available	
Flammability	No data available	
Flammability Limit in Air		
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapor pressure	< 0.0467	kPa
Relative vapor density	No data available	
Density and/or relative density	1.121000 g/cm³ @25 °C	
Water solubility	Soluble	
Solubility in other solvents	No data available	
Partition Coefficient (n-octanol/water)	-2.30	
Autoignition temperature	310 °C / 590 °F	
Decomposition temperature	No data available	
Kinematic viscosity	28 cSt	@98 °C
Dynamic viscosity	No data available	
Particle characteristics	No information available	

Other Information

Molecular weight	No information available
VOC Content (%)	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY

Reactivity No information available.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid Extremes of temperature and direct sunlight. Keep away from open flames, hot surfaces and sources of ignition. Exposure to air or moisture over prolonged periods.

Incompatible materials Acids. Strong oxidizing agents. Combustible material.

Hazardous decomposition products No information available.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

Unknown acute toxicity No information available

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Polyethylene glycol 25322-68-3	= 22 g/kg (Rat) = 28 g/kg (Rat)	> 20 g/kg (Rabbit)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Based on available data, the classification criteria are not met.
Mild irritation (500 mg/24h, rabbit).

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.
Mild irritation (500 mg/24h, rabbit).

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No classification is proposed, based on conclusive negative data.
50 pph, hamster; 25 mmol/L, 3h, hamster (+S9); 3 mmol/L - 7 mmol/L, 16h, hamster; 100 g/L, other microorganisms (negative results).

Carcinogenicity Based on available data, the classification criteria are not met.
No tumorigenic effect was produced in mice after intravaginal contact for 1 year. TDLo: 416 mg/kg.

Reproductive toxicity Based on available data, the classification criteria are not met.
No effect was produced in pregnant rabbits (6 - 18 days) after ingestion. TDLo: 130 mg/kg.

STOT - single exposure No information available.

STOT - repeated exposure Based on available data, the classification criteria are not met.
Toxicological reports have suggested an acceptable daily intake of PEG for human estimated up to 10 mg/kg or 0.7 g/70-kg human/day. For low molecular weight PEGs, this acceptable dose could, in theory, give rise to a systemic (absorbed) dose of approximately 400 mg/day.

Aspiration hazard No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity Not considered to be harmful to aquatic life.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Polyethylene glycol 25322-68-3	-	LC50: >20000mg/L (96h, Carassius auratus)	-	-

Persistence and degradability Not readily biodegradable.
56.2% by BOD MITI test.

Bioaccumulative potential It is not expected to bioacumulate in the environment.

Chemical name	Partition coefficient
Polyethylene glycol 25322-68-3	-2.3

Mobility in soil It is expected to have high mobility in soil.
Log Koc: -1.532.

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL Complies
NDSL Does not comply
EINECS/ELINCS Complies
ENCS Complies
IECSC Complies

KECL	Complies
PICCS	Complies
AICS	Complies
NZIoC	Complies

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances
NZIoC - New Zealand Inventory of Chemicals

US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65
This product contains the following Proposition 65 chemicals.

Chemical name	California Proposition 65
Ethylene glycol - 107-21-1	Developmental
Ethylene oxide - 75-21-8	Carcinogen Developmental Female Reproductive Male Reproductive
1,4-Dioxane - 123-91-1	Carcinogen

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Diethylene glycol 111-46-6	-	-	X

Ethylene glycol 107-21-1	X	X	X
Ethylene oxide 75-21-8	X	X	X
1,4-Dioxane 123-91-1	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA	**Health hazards** 0	**Flammability** 1	**Instability** 0	**Physical and chemical properties** -
HMIS	**Health hazards** 0	**Flammability** 1	**Physical hazards** 0	**Personal protection** X

Revision Date 05-Nov-2019

204758

Revision Note No information available.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet