

Revision Date 30-Jan-2023

Revision Number 1

1. IDENTIFICATION

Product identifier

Product Name OXITIVE 8123

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 considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A

Labeling elements

Warning

Causes skin irritation.
Causes serious eye irritation.



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling.
Wear protective gloves/eye protection/face protection.

Precautionary statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of water and soap.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

Other hazards which do not result in classification

Not applicable.

Hazards not otherwise classified (HNOC)

Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical name	CAS No	Weight-%	Trade secret
Poly(oxy-1,2-ethanediyl), α-[2,4,6-tris(1-phenylethyl)phenyl]-ω- hydroxy-	70559-25-0	30 - 60	*
Poly(oxy-1,2-ethanediyl), α-phosphono-ω-[2,4,6-tris(1-phenylethyl)]phenoxy]-	114535-82-9	15 - 40	*
Phosphoric acid	7664-38-2	1 - 2	*

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

4. FIRST AID MEASURES

Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Call a physician immediately. Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
Skin contact	Remove contaminated clothing and shoes. Wash with plenty of water.

	Call a physician immediately.
Ingestion	Call a physician immediately. Do not induce vomiting without medical advice. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Never give anything by mouth to an unconscious person.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

Symptoms See Section 11 for additional Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Note to physicians No specific antidote is known. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	In case of fire, use water spray, foam or carbon dioxide (CO ₂).
Unsuitable extinguishing media	A water jet should not be directed directly at the burning product, as it may spread and increase the intensity of the fire.
Specific hazards arising from the chemical	Not flammable.
Hazardous combustion products	In case of combustion may generate toxic and/or irritant fumes containing: Carbon oxides, Phosphorus oxides.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Cool intact containers exposed to fire with water spray and remove them.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Isolate and signal the area. Keep away from heat/ignition sources. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.
Other Information	Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8.
<u>Environmental precautions</u>	
Environmental precautions	Prevent the product from reaching the soil and water courses. Notify the competent authorities if the product reaches drainage systems or water courses or if it contaminates the soil or vegetation.
<u>Methods and material for containment and cleaning up</u>	
Methods for containment	Stop leak if you can do it without risk. Contain the spilled product with earth or sand dikes. Eliminate ignition or heat sources.

Methods for cleaning up	Transfer to proper container. Collect remnants with an appropriate absorbent material. Wash the contaminated surface with water, which should be collected for disposal.
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	Use in a well-ventilated area. Prevent product inhalation, contact with eyes, skin and clothing through adequate protection. If accidental contact occurs, wash immediately. Emergency showers and eye washers must be available in appropriate locations. Wash hands and face thoroughly after handling. Wash contaminated clothing before reuse.
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Conditions for safe storage, including any incompatibilities

Storage Conditions	Store in a covered, well-ventilated place, away from sunlight and away from heat sources or open flames. Ensure suitable conditions of temperature, pressure and humidity. Keep container tightly closed when not in use.
Packaging materials	Recommended: carbon steel with internal phenolic coating.
Incompatible materials	Avoid contact with: Alkali, Metals, Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Phosphoric acid 7664-38-2	TWA: 1 mg/m ³ STEL: 3 mg/m ³	TWA: 1 mg/m ³ (vacated) STEL: 3 mg/m ³	1000 mg/m ³

Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
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Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Hand protection	polychloroprene, PVC (Polyvinyl Chloride) gloves.
Skin and body protection	PVC apron. Protective shoes or boots.
Respiratory protection	In case of emergency or contact with high concentrations of the product, use autonomous masks or with supplied air. It is recommended to wear face mask with organic vapors cartridge in case of exposure to

vapors/aerosols.

General hygiene considerations Avoid contact with skin, eyes or clothing.
Wear suitable gloves and eye/face protection.
Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid @25 °C / 77 °F
Appearance viscous
Color Yellowish; light brown
Odor No information available
Odor threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	1.5 - 3	5% w/w in water @25 °C / 77 °F
Melting point / freezing point	No data available	
Boiling point or initial boiling point and boiling range	> 200 °C / 392 °F	
Flash point	215 °C / 419 °F	open 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	No data available	
Relative vapor density	No data available	
Density and/or relative density	1.13 g/cm ³	@25 °C / 77 °F
Water solubility	Soluble	
Solubility in other solvents	No data available	
Partition Coefficient (n-octanol/water)	No data available	
Autoignition temperature	No data available	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	
Dynamic viscosity	ca. 2500 cP	(25 °C/ 77 °F)
Particle characteristics	No information available	
 <u>Other Information</u>		
Molecular weight	No information available	
VOC Content (%)	No information available	
Bulk density	No information available	

10. STABILITY AND REACTIVITY

Reactivity No hazardous reactivity is expected.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions It does not polymerize.

Conditions to avoid High temperatures, ignition sources and prolonged exposure to the air.

Incompatible materials Avoid contact with: Alkali, Metals, Strong oxidizing agents.

Hazardous decomposition products In case of combustion may generate toxic and/or irritant fumes containing: Carbon oxides, Phosphorus oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available. Vapors from liquid at elevated temperatures or product mist, in high concentrations, may cause irritation of the respiratory system.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye irritation (based on components).
Skin contact	Specific test data for the substance or mixture is not available. Causes skin irritation (based on components).
Ingestion	Specific test data for the substance or mixture is not available. May cause gastrointestinal irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause redness and tearing of the eyes.

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

Acute toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Phosphoric acid 7664-38-2	1530 mg/kg (rat).	2730 mg/kg (rabbit).	> 850 mg/m ³ (rat, 1h).

Skin corrosion/irritation Classification based on data available for ingredients.
Irritating to skin.

Component Information	
Poly(oxy-1,2-ethanediyl), .alpha.-phosphono-.omega.-[2,4,6-tris(1-phenylethyl)phenoxy]- (114535-82-9)	
Results	Mild skin irritant (rabbit, contact test)

Phosphoric acid (7664-38-2)	
Species	Rabbit
Results	Severe skin irritation

Serious eye damage/eye irritation Classification based on data available for ingredients.
Irritating to eyes.

Component Information	
Poly(oxy-1,2-ethanediyl), .alpha.-phosphono-.omega.-[2,4,6-tris(1-phenylethyl)phenoxy]- (114535-82-9)	
Species	Rabbit
Results	In contact with eyes: causes moderate to severe irritation

Phosphoric acid (7664-38-2)	
Results	In contact with eyes: causes moderate to severe irritation (0.16M phosphoric acid solution)

Respiratory or skin sensitization No information available.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Component Information	
Phosphoric acid (7664-38-2)	
Results	Negative in AMES Test with or without metabolic activation

Carcinogenicity The product does not contain any component present at concentration greater than or equal to 0.1% listed as carcinogen/possibly carcinogen for NTP, IARC and OSHA.

Reproductive toxicity Based on available data, the classification criteria are not met.

Component Information	
Phosphoric acid (7664-38-2)	
Results	Three successive generations of rats were fed diets containing 0.4% and 0.75% phosphoric acid for 90 weeks. No harmful effects on growth or reproduction were observed.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard It is not expected to be hazardous by aspiration.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Crustacea
Poly(oxy-1,2-ethanediyl), .alpha.-phosphono-.omega.a.-[2,4,6-tris(1-phenylethyl)phenoxy]-114535-82-9	-	LC50, 24h, Brachydanio rerio: 3100 mg/L; LC50, 48h, Brachydanio rerio: 3000 mg/L.	EC50, 24h, Daphnia magna: 550 mg/L.
Phosphoric acid 7664-38-2	-	LC50, 96h, Gambusia affinis: 3 - 3.5 mg/L. Based on similar products.	EC50, 12h, Daphnia magna: 4.6 mg/L. Based on similar products.

Persistence and degradability Not readily biodegradable.
Based on similar products.

Bioaccumulative potential Bioconcentration potential in aquatic organisms is low.

Mobility in soil It is expected to have low mobility in soil..

Other adverse effects hazardous to water (WGK 2).

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products

The preferred options for disposal include reuse, recycling, co-processing, finding a use for a byproduct, 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. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging

Do not cut or pierce the packaging, nor do hot work near them. Do not remove label until container is thoroughly cleaned. All procedures must follow specific operation standards in order to reduce health, safety and environmental risks. Dispose of contents/containers in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA All components contained in this product are listed on the Active TSCA inventory or are Exempt

DSL Not Listed

NDSL Not Listed

Global Inventories Contact supplier for inventory compliance status

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

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

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Phosphoric acid 7664-38-2	5000 lb	-	-	X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	TPQ
Phosphoric acid 7664-38-2	5000 lb	-	-
1,4-Dioxane	100 lb	-	-

123-91-1			
Ethylene oxide 75-21-8	10 lb	10 lb	1000 lb

US State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals.

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

U.S. State Right-to-Know Regulations

This product may contain substances regulated by state right-to-know regulations.

Chemical name	New Jersey	Massachusetts	Pennsylvania
Phosphoric acid 7664-38-2	X	X	X
Ethylene oxide 75-21-8	X	X	X
1,4-Dioxane 123-91-1	X	X	X

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

NFPA	Health hazards	Flammability	Instability	Special hazards
	3	1	0	-
HMIS	Health hazards	Flammability	Physical hazards	Personal protection
	3	1	0	X

Revision Date 30-Jan-2023

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