

SAFETY DATA SHEET



Bacilox XL OE RTU (1X)

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

GHS Product Information

Product Name: Bacilox XL OE RTU (1X)
Business Unit Osprey
Product Type Stable, multi-spore culture solution
Safety data sheet number: 1786-129 -US-E

Recommended use of the chemical and restrictions on use

Recommended use: Water, surface, laundry/carpet and waste treatment.

Uses advised against: No information available

Details of the supplier of the safety data sheet

Manufacturer:
Osprey Biotechnics
1845 57th Street
Sarasota, FL 34243

SDS Contact (email of responsible person): phibroehs@pahc.com

24 Hour Emergency Phone Number: Chemtrec 1-800-424-9300 (CCN17224)

International: International Number: +1 703-527-3887

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

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

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

Emergency Overview

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance liquid **Physical state** Liquid **Odor** Mild

Hazards not otherwise classified (HNOC)

Principle Routes of Exposure Inhalation Skin Contact Eye contact

Other hazards

- Harmful to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture Mixture

Chemical name	CAS No	Weight-%	Trade Secret
Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-(dodecyloxy)-, sodium salt	9004-82-4	1 - 5	*
Benzyl salicylate	118-58-1	0.1 - 1	*

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

4. FIRST AID MEASURES

Description of first aid measures

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Inhalation: Remove to fresh air.

Skin Contact: Wash skin with soap and water.

Ingestion: Consult a physician if necessary.

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

Extinguishing media

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

Specific hazards arising from the chemical: No information available.

Explosion data**Sensitivity to Mechanical Impact:** None.**Sensitivity to Static Discharge:** None.**Protective equipment and precautions for firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****Personal precautions:** Ensure adequate ventilation, especially in confined areas.**For emergency responders:** Use personal protection recommended in Section 8. Use personal protective equipment as required.**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.**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:** Keep containers tightly closed in a dry, cool and well-ventilated place.**Incompatible materials:** None known based on information supplied.**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters****Exposure Guidelines***NIOSH IDLH Immediately Dangerous to Life or Health***Other Information:** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).**Appropriate engineering controls****Engineering Controls:** Showers
Eyewash stations
Ventilation systems.**Individual protection measures, such as personal protective equipment****General Hygiene Considerations:** Handle in accordance with good industrial hygiene and safety practice.**Eye/face protection:** No special technical protective measures are necessary.

Skin and body protection: No special technical protective measures are necessary.

Respiratory protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid	Odor	Mild
Appearance	liquid	Odor threshold	No information available
Color	light yellow		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	6-10	
Melting Point / Freezing Point	No data available	
Boiling point / boiling range	100 °C / 212 °F	
Flash point	No data available	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	23 hPa	
Vapor density	No information available	
Specific Gravity	No information available	
Water solubility	Immiscible in water	
Solubility in other solvents		
Partition coefficient	No information available	
Autoignition temperature	No information available	Autoignition
	temperature °F - VALUE	
Hyphen	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	

Other information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	0.77579
Density	1.005 g/cm3
Bulk density	No information available
Percent Volatile	No information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Extremes of temperature and direct sunlight.

Incompatible materials

None known based on information supplied.

Hazardous decomposition products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Product Information:	No data available
Inhalation:	No data available.
Eye contact:	No data available.
Skin Contact:	No data available.
Ingestion:	No data available.

Component Information

Chemical name	CAS No	Oral LD50	Dermal LD50	Inhalation LC50
Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-(dodec yloxy)-, sodium salt	9004-82-4	= 1600 mg/kg (Rat)	-	-
Benzyl salicylate	118-58-1	= 2227 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms: No information available.

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

Sensitization: No information available.
Germ cell mutagenicity: No information available.
Carcinogenicity: The table below indicates whether each agency has listed any ingredient as a carcinogen.

ACGIH (American Conference of Governmental Industrial Hygienists)
A3 - Animal Carcinogen
IARC (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
NTP (National Toxicology Program)
Known - Known Carcinogen
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present

Reproductive toxicity: No information available.
STOT - single exposure: No information available.
STOT - repeated exposure: No information available.
Aspiration hazard: No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .
ATEmix (oral) 88446 mg/kg

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Harmful to aquatic life

0% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical name	CAS No	Algae/aquatic plants	Fish	Crustacea
Ethyl Alcohol	64-17-5	-	12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L LC50 static	9268 - 14221: 48 h Daphnia magna mg/L LC50 2: 48 h Daphnia magna mg/L EC50 Static
Alanine, N,N-bis(carboxymethyl)-, trisodium salt	164462-16-2	-	110: 96 h Danio rerio mg/L LC50 static	-
Citric acid, anhydrous	77-92-9	-	1516: 96 h Lepomis macrochirus mg/L LC50	-
Benzyl salicylate	118-58-1	-	1.03: 96 h Danio rerio mg/L LC50 semi-static	-
Cyclopentaneacetic acid, 3-oxo-2-pentyl-, methyl ester	24851-98-7	-	19: 96 h Oryzias latipes mg/L LC50 semi-static	-
Phenethyl alcohol	60-12-8	490: 72 h Desmodemus subspicatus mg/L EC50	-	287.17: 48 h Daphnia magna mg/L EC50
Linalyl acetate	115-95-7	-	11: 96 h Cyprinus carpio mg/L LC50 flow-through	-
Linalool	78-70-6	88.3: 96 h Desmodemus subspicatus mg/L EC50	27.8: 96 h Oncorhynchus mykiss mg/L LC50 static	20: 48 h Daphnia magna mg/L EC50
Benzenepropanal, 4-(1,1-dimethylethyl)-.alpha.-methyl-	80-54-6	-	2.2 - 4.6: 96 h Brachydanio rerio mg/L LC50 static	10.7: 48 h Daphnia magna mg/L EC50
Geraniol	106-24-1	-	22: 96 h Danio rerio mg/L LC50 static	-
Sodium hydroxide	1310-73-2	-	45.4: 96 h Oncorhynchus mykiss mg/L LC50 static	-
Magnesium chloride	7786-30-3	82.7: 72 h Pseudokirchneriella subcapitata mg/L EC50	1970 - 3880: 96 h Pimephales promelas mg/L LC50 static	140: 48 h Daphnia magna mg/L EC50 Static
Benzyl alcohol	100-51-6	-	10: 96 h Lepomis macrochirus mg/L LC50 static 460: 96 h Pimephales promelas mg/L LC50 static	23: 48 h water flea mg/L EC50
Butylated hydroxytoluene	128-37-0	6: 72 h Pseudokirchneriella subcapitata mg/L EC50 0.42: 72 h Desmodemus subspicatus mg/L EC50	-	-

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

Other adverse effects:

No information available

13. DISPOSAL CONSIDERATIONS**Waste treatment methods****Disposal of wastes:**

Refer to all federal, state and local regulations prior to disposal of container and unused contents by reuse, recycle or disposal. Disposal should be in accordance with applicable regional, national and local laws and regulations. Avoid runoff to waterways and sewers. Recover or recycle if possible. Send to a licensed recycler, reclaimer or incinerator.

Disposal methods:

Do not reuse container.

14. TRANSPORT INFORMATION

Note:	Store in a closed container. Keep container upright.
DOT	Not regulated
IATA	Not regulated
IMDG	Not regulated
TDG	Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	Not Determined
DSL	Not Determined
EINECS/ELINCS:	Not Determined
ENCS:	Not Determined
IECSC:	Not Determined
KECL:	Not Determined
PICCS:	Not Determined
AICS:	Not Determined

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - 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
TCSI - Taiwan

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

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)

FIFRA

Not applicable

US State Regulations

WARNING! This product contains a chemical known in the State of California to cause cancer. This product can expose you to chemicals including those listed below, which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Chemical name	California Proposition 65
Ethyl Alcohol - 64-17-5	Carcinogen Developmental

U.S. State Right-to-Know Regulations

Chemical name	CAS No	New Jersey	Massachusetts	Pennsylvania
Ethyl Alcohol	64-17-5	X	X	X
Benzyl alcohol	100-51-6	-	X	X
Butylated hydroxytoluene	128-37-0	X	X	X

16. OTHER INFORMATION

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

Document Review

Revision Number: 2

Revision Note: No information available

Key or legend to abbreviations and acronyms used in the safety data sheet:

Bioconcentration factor (BCF)
International Air Transport Association (IATA)
Globally Harmonized System (GHS)
International Maritime Dangerous Goods (IMDG)

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End of Safety Data Sheet