













- Based on available data, the classification criteria are not met.
- Germ cell mutagenicity**  
Based on available data, the classification criteria are not met.
- Carcinogenicity**  
Based on available data, the classification criteria are not met.
- Reproductive toxicity**  
Suspected of damaging fertility. Suspected of damaging the unborn child.
- STOT-single exposure**  
Based on available data, the classification criteria are not met.
- STOT-repeated exposure**  
Based on available data, the classification criteria are not met.
- Aspiration hazard**  
Based on available data, the classification criteria are not met.
- Long term effects**  
None known.
- Other information**  
None known.

**SECTION 12: Ecological information**

- 12.1. Toxicity**  
Product is of low ecotoxicity  
Fish 96h LC50 >100mg/l (Oncorhynchus Mykiss)  
Daphnia 48h EC50 Not determined but expected to be virtually non-toxic  
Algae 72h EC50 Not determined but expected to be virtually non-toxic
- 12.2. Persistence and degradability**  
Product is inherently biodegradable and is expected to be readily biodegradable based on ingredients (OECD 302B).  
If admitted into adapted biological water treatment plants no adverse effects of the degrading action of the live sludge are expected.
- 12.3. Bioaccumulative potential**  
Not expected to Bio-accumulate. Log POW for all main ingredients <2.0
- 12.4. Mobility in soil**  
Product is soluble in water and will be mobile in soil until degraded. Volatilisation from water to air not expected.
- 12.5. Results of PBT and vPvB assessment**  
This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.
- 12.6. Other adverse effects**  
None known.

**SECTION 13: Disposal considerations**

- Waste treatment methods**  
Dispose of in accord with local and national regulations. Recycling or incineration with energy recovery are recommended.
- RCRA Hazardous waste ("P" and "U" list) (40 CFR 261)**  
None of the components are listed
- Specific labelling**
- Contaminated packing**  
Packaging containing residues of the product must be disposed of similarly to the product.

**SECTION 14: Transport information**

	<b>14.1 UN / ID</b>	<b>14.2 UN proper shipping name</b>	<b>14.3 Hazard class(es)</b>	<b>14.4 PG*</b>	<b>14.5 Env**</b>	<b>Other information:</b>
DOT	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

Conforms to OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200 / revised 2012)

\* Packing group

\*\* Environmental hazards

**Additional information**

Not dangerous goods according to DOT, IATA and IMDG.

**14.6. Special precautions for user**

Not applicable.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

No data available.

## SECTION 15: Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**15.2. U.S. Federal regulations**

**TSCA**

Butyl Triglycol is listed in the non-confidential portion  
3,6,9,12-tetraoxahexadecan-1-ol is listed in the non-confidential portion  
2,2'-(ethylenedioxy)diethanol is listed in the non-confidential portion  
2,2'-butyliminodiethanol is listed in the non-confidential portion  
2-(2-butoxyethoxy)ethanol; is listed in the non-confidential portion  
2,2' -oxybisethanol; is listed in the non-confidential portion  
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether; diethylene glycol monomethyl ether is listed in the non-confidential portion

**Clean Air Act**

Glycol ethers are regulated as a generic class under this legislation.

**EPCRA Section 302**

None of the components are listed

**EPCRA Section 304**

None of the components are listed

**EPCRA section 313**

Glycol ethers are regulated as a generic class under this legislation.

**CERCLA**

Glycol ethers are regulated as a generic class under this legislation.

**State regulations**

**California / Prop. 65**

None of the components are listed

**Massachusetts / Right To Know Act**

2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether; diethylene glycol monomethyl ether is listed

**New Jersey / Right To Know Act**

None of the components are listed

**New York / Right To Know Act**

None of the components are listed

**Pennsylvania / Right To Know Act**

2,2'-(ethylenedioxy)diethanol is listed

—  
2,2'-butyliminodiethanol is listed

—  
2,2' -oxybisethanol; is listed

—  
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether; diethylene glycol monomethyl ether is listed

**15.4. Restrictions for application**

No special.

**15.5. Demands for specific education**

No specific requirements.

**15.6. Additional information**

Not applicable.

**15.7. Chemical safety assessment**

No

**15.8. Sources**

OSHA Hazard Communication Standard (29 CFR 1910.1200)



**SECTION 16: Other information****Full text of H-phrases as mentioned in section 3**

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

H320, Causes eye irritation

H361d, Suspected of damaging the unborn child.

H361fd, Suspected of damaging fertility. Suspected of damaging the unborn child.

**The full text of identified uses as mentioned in section 1**

None known.

**Abbreviations and acronyms**

ACGIH = American Conference of Governmental Industrial Hygienists

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CERCLA = Comprehensive Environmental Response Compensation and Liability Act

DOT = Department of Transportation

EINECS = European Inventory of Existing Commercial chemical Substances

EPCRA = Emergency Planning and Community Right-To-Know Act

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HCIS = Hazardous Chemical Information System

HNOC = Hazards Not Otherwise Classified

IARC = International Agency for Research on Cancer

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

NFPA = National Fire Protection Association

NIOSH = National Institute for Occupational Safety and Health

OECD = Organisation for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

PBT = Persistent, Bioaccumulative and Toxic

RCRA = Resource Conservation and Recovery Act

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SARA = Superfund Amendments and Reauthorization Act

SCL = A specific concentration limit.

STEL = Short-term exposure limits

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TSCA = The Toxic Substances Control Act

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

**Additional information**

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by HCS (29 CFR 1910.1200).

The information contained herein is based on the present knowledge and experience of Orthene Chemicals Ltd. It in no way constitutes the users own assessment of work place risk as required by other Health and Safety legislation. Orthene Chemicals Ltd. does not, by supplying this information, guarantee or warrant any specific properties or qualities of goods supplied. It is the responsibility of the purchaser to determine whether the goods ordered are fit for any purpose for which they may be required.

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▼ **The safety data sheet is validated by**  
Christopher Coulthard

Conforms to OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200 / revised 2012)

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#### Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: US-en