

# Material Safety Data Sheet



TURBOFLEX D

## Section 1. Chemical product and company identification

Trade name : TURBOFLEX D  
Product use : Laundry detergent  
Supplier : Ecolab Inc. Textile Care Division  
370 N. Wabasha Street  
St. Paul, MN 55102  
1-800-553-8683  
Code : 956953-01  
Date of issue : 30-July-2009

EMERGENCY HEALTH INFORMATION: 1-800-328-0026  
Outside United States and Canada CALL 1-651-222-5352 (in USA)

## Section 2. Hazards identification

Physical state : Liquid. [Liquid.]  
Emergency overview : WARNING!

CAUSES EYE IRRITATION.  
MAY CAUSE RESPIRATORY TRACT AND SKIN IRRITATION.  
MAY BE HARMFUL IF SWALLOWED.

Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapors, spray or mists. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

### Potential acute health effects

Eyes : Irritating to eyes.  
Skin : Moderately irritating to the skin.  
Inhalation : Moderately irritating to the respiratory system.  
Ingestion : May be harmful if swallowed.

See toxicological information (section 11)

## Section 3. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
BUTOXYETHANOL	111-76-2	9
poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-	9016-45-9	>50
DISODIUM COCOAMPHODIPROPIONATE	68604-71-7	1 - 5

## Section 4. First aid measures

**Eye contact** : In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

**Skin contact** : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation persists. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Inhalation** : If inhaled, remove to fresh air.

**Ingestion** : Rinse mouth; then drink one or two large glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

## Section 5. Fire-fighting measures

- Flash point** : > 100°C  
Product does not support combustion.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide
- Fire-fighting media and instructions** : Use an extinguishing agent suitable for the surrounding fire.  
  
Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.  
In a fire or if heated, a pressure increase will occur and the container may burst.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

- Personal precautions** : Use suitable protective equipment (section 8). Do not allow to enter drains or watercourses.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up** : For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain it to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

## Section 7. Handling and storage

- Handling** : Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapors, spray or mists. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
- Storage** : Keep out of reach of children. Keep container in a cool, well-ventilated area. Keep container tightly closed.  
Do not store below the following temperature: 0°C

## Section 8. Exposure controls/personal protection

- Engineering measures** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### Personal protection :

- Eyes** : Wear eye protection.
- Hands** : Use chemical-resistant, impervious gloves.
- Skin** : No protective equipment is needed under normal use conditions.
- Respiratory** : Avoid breathing vapors, spray or mists.

### Name

BUTOXYETHANOL

### Exposure limits

**ACGIH TLV (United States, 1/2008).**

TWA: 20 ppm 8 hour(s).

**OSHA PEL (United States, 11/2006). Absorbed through skin.**

TWA: 240 mg/m<sup>3</sup> 8 hour(s).

TWA: 50 ppm 8 hour(s).

## Section 9. Physical and chemical properties

Physical state	: Liquid. [Liquid.]
Color	: Colorless to light yellow. [Light]
Odor	: Ammoniacal.
pH	: 8 to 10 [Conc. (% w/w): 100%]
Boiling/condensation point	: >100°C (>212°F)
Relative density	: 0.991 to 1.091
Viscosity	: Dynamic: 184 cP
Dispersibility properties	: Easily dispersible in the following materials: cold water and hot water.
Solubility	: Easily soluble in the following materials: cold water and hot water.

## Section 10. Stability and reactivity

Stability	: The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
Reactivity	: Slightly reactive or incompatible with the following materials: acids.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.

## Section 11. Toxicological information

### Potential acute health effects

Eyes	: Irritating to eyes.
Skin	: Moderately irritating to the skin.
Inhalation	: Moderately irritating to the respiratory system.
Ingestion	: May be harmful if swallowed.

### Potential chronic health effects

Target organs	: Contains material which may cause damage to the following organs: blood, kidneys, liver, lymphatic system, upper respiratory tract, central nervous system (CNS).
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## Section 12. Ecological information

Ecotoxicity data	: Not available.
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## Section 13. Disposal considerations

Waste disposal	: The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
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Consult your local or regional authorities.

## Section 14. Transport information

**Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.**

### UN Classification

UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (Alcohol C13-15 Poly (1-6) Ethoxylate), Marine pollutant

Class

9

Packing group III

See shipping documents for specific transportation information.

## Section 15. Regulatory information

**HCS Classification** : Irritating material  
Target organ effects

### U.S. Federal regulations

**TSCA 8(b) inventory** : All components are listed or exempted.

**SARA 302/304/311/312 extremely hazardous substances**: No products were found.

**SARA 302/304 emergency planning and notification**: No products were found.

### **SARA 313**

Form R - Reporting requirements

#### Product name

: BUTOXYETHANOL

#### CAS number

111-76-2

#### Concentration

9

**California Prop. 65** : No products were found.

## Section 16. Other information

**Hazardous Material Information System (U.S.A.)** :

Health	*	2
Flammability		0
Physical hazards		0

**Date of issue** : 30-July-2009.

**Responsible name** : Regulatory Affairs

**Date of previous issue** : 31-December-2008.

### Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, **NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.**