

31166

Material Safety Data Sheet

ECOLAB

TOR PLUS

Section 1. Chemical product and company identification

Trade name : TOR PLUS
 Product use : Cleaner and disinfectant
 Supplier : Ecolab Inc, Healthcare Division
 370 N. Wabasha St.
 St. Paul, MN 55102
 1-800-332-6522
 : 903359

Date of Issue : 29-November-2005
 EPA Registration No. : 705-65-541

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

Section 2. Composition, Information on Ingredients

Name	CAS number	% by weight
2-Dutoxyethanol	1111-76-2	10
petroleum gases, liquefied, sweetened	68476-86-8	5 - 20
acetic acid, (ethylenedinitro)laurate-, tetrasodium salt	64-02-8	5 - 20
quaternary ammonium compounds, benzoycoco alkyltrimethyl, chlorides	61789-71-7	0, 115
alkyl dimethyl benzy ammonium chloride	8001-54-5	0, 115

Section 3. Hazards identification

Physical state : Liquid. (Aerosol.)
 Emergency overview : CAUTION!

CAUSES EYE IRRITATION.
 HARMFUL IF ABSORBED THROUGH SKIN OR IF INHALED.
 CONTENTS UNDER PRESSURE.
 Do not puncture, incinerate, store the container at temperatures above 49°C (120°F) or in direct sunlight.
 Can cause central nervous system depression.
 Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid breathing vapor or mist. Avoid all possible sources of ignition (spark or flame).

Potential acute health effects

Eyes : Slightly irritating to the eyes.
 Skin : No known significant effects or critical hazards.
 Inhalation : Slightly irritating to the respiratory system. High vapor concentrations can cause headaches, dizziness, drowsiness, and nausea, and may lead to unconsciousness.
 Ingestion : No known significant effects or critical hazards.
 See toxicological information (Section 11)

Section 4. First aid measures

Eye contact : In case of contact, immediately flush eyes with plenty of water. Remove contact lenses and flush again. Get medical attention if irritation occurs.
 Skin contact : Flush contaminated skin with plenty of water. Wash clothing before reuse.
 Inhalation : If inhaled, remove to fresh air.
 Ingestion : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

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Section 5. Fire fighting measures

Flash point : > 100°C
 Flammable limits : Lower: 1.8 %
 Upper: <=13 %
 Fire fighting media and instructions : Use an extinguishing agent suitable for surrounding fires.
 Dike area of fire to prevent product run-off.
 No specific hazard.
 Special protective equipment : Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full facepiece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions : Ventilate area of leak or spill. Do not touch damaged containers or spilled material unless wearing appropriate protective equipment (Section 8). Stop leak if without risk. Prevent entry into sewers, water courses, basements or confined areas.
 Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
 Methods for cleaning up : If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material 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. Wash thoroughly after handling.
 Storage : Keep out of the reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area.
 Do not store above 50°C

Section 8. Exposure Controls, Personal Protection

Engineering controls : Good general ventilation should be sufficient to control airborne levels.
 Personal protection : Eye protection recommended.
 Hands : Use chemical resistant, impervious gloves.
 Skin : No protective equipment is needed under normal use conditions.
 Respiratory : No protective equipment is needed under normal use conditions.
 Name : 2-Dutoxyethanol
 Exposure limits : ACGIH TLV (United States, 1/2004).
 TW:A: 20 ppm 8 hour(s). Form: All forms
 OSHA PEL (United States, 8/1997). Skin
 TW:A: 240 mg/m³ 8 hour(s). Form: All forms
 TW:A: 50 ppm 8 hour(s). Form: All forms

Section 9. Physical and chemical properties

Physical state : Liquid. (Aerosol.)
 Color : Clear.
 Odor : Ammoniacal.
 pH : 12.33 (100%)
 Specific gravity : 0.978 (Water = 1)

Section 10. Stability and reactivity

Stability : The product is stable.

Section 11. Toxicological information

Potential acute health effects

- Eyes : Slightly irritating to the eyes.
 - Skin : No known significant effects or critical hazards.
 - Inhalation : Slightly irritating to the respiratory system. High vapor concentrations can cause headaches, dizziness, drowsiness, and nausea, and may lead to unconsciousness.
 - Ingestion : No known significant effects or critical hazards.
- Potential chronic health effects**
- Chronic effects on humans : Contains material which causes damage to the following organs: blood, kidneys, liver, lymphatic system, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

Section 12. Ecological information

Products of degradation : These products are carbon oxides (CO, CO₂) and water, nitrogen oxides (NO, NO₂, ...). Some metallic oxides.

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.

Consult your local or regional authorities.

Section 14. Transport information

Regulatory Information	UN number	Proper shipping name	Class	Packing group	Additional information
DOT Classification		Consumer commodity	ORM-D		

APPLIES ONLY DURING ROAD TRANSPORT
Any variation of the shipping description based on the packaging is not addressed.

Section 15. Regulatory information

- HCS Classification : Carcinogen
- U.S. Federal regulations : Target organ effects : SARA 302/304/311/312 extremely hazardous substances: None.
SARA 302/304 emergency planning and notification: None.
- TSCA 8(b) Inventory : All materials are listed or exempt.
- SARA 313 : Product name : 2-butoxyethanol
- Form R - Reporting requirements : No products were found.
- California prop. 65 : No products were found.
- EPA Registration No. : 706-65-541

Section 16. Other information

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

	Health	1
Fire hazard	0	0
Reactivity	0	0
Personal protection	0	0

- Date of issue : 29-November-2005.
 - Responsible name : Regulatory Affairs
 - Date of previous issue : No Previous Validation.
- 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.