

SAFETY DATA SHEET



TB DISINFECTANT CLEANER READY-TO-USE

Section 1. Chemical product and company identification

Product name : TB DISINFECTANT CLEANER READY-TO-USE
 Recommended use and restrictions : Cleaner and disinfectant
 Use only for the purpose on the product label.

Product dilution information : Not applicable

Supplier's information : Ecolab Inc. Institutional Division
 370 N. Wabasha Street
 St. Paul, MN 55102
 1-800-352-5328

Code : 905252

Date of issue : 06 Sep 2013

EPA Registration No. : 1833-03-1677
 EMERGENCY HEALTH INFORMATION: 1-800-328-0026
 Outside United States and Canada CALL 1-651-222-5352 (In USA)

Section 2. Hazards identification

Product AS SOLD : Product AT USE DILUTION
 GHS Class - Reaction : SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B
 Product is sold ready to use.

GHS label elements

Signal word : CAUTION

Hazard statements : Causes eye irritation.

Precautionary statements

Prevention : Wash hands thoroughly after handling.

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 attention.

Storage : No other specific measures identified.

Disposal : See section 13 for waste disposal information.
 Other hazards : None known.

Section 3. Composition/information on ingredients

Substance/mixture	Concentration Range (%)	CAS number
Product AS SOLD : Mixture		
Hazardous ingredients		
BUTOXYDIGLYCOL	8	112-34-5

TB DISINFECTANT CLEANER READY-TO-USE

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Section 3. Composition/information on ingredients

Ingredient	Concentration Range (%)	CAS number
1-5		64-02-8
TETRASODIUM EDTA	0.105	68391-01-5
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18)		
dimethyl benzyl ammonium chlorides		
n-Alkyl (98% C12, 32% C14)	0.105	68956-79-6
dimethyl ethylbenzyl ammonium chlorides		

Product AT USE DILUTION

Hazardous ingredients

Product is sold ready to use.

Section 4. First aid measures

Eye contact

Product AS SOLD : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.

Skin contact

Product AS SOLD : No known effect after skin contact. Rinse with water for a few minutes.

Inhalation

Product AS SOLD : No special measures required. Treat symptomatically.

Ingestion

Product AS SOLD : Get medical attention if symptoms occur.

Protection of first-aiders

Product AS SOLD : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Notes to physician

Product AS SOLD : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 h.

Section 5. Fire-fighting measures

Product AS SOLD

Suitable fire extinguishing : Use water spray, fog or foam.

Specific hazards arising from the chemical decomposition products

Product AS SOLD : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products

Product AS SOLD : Decomposition products may include the following materials:

carbon dioxide

carbon monoxide

nitrogen oxides

metal oxides

Specific fire-fighting methods : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

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

<p>Product AS SOLD</p> <p>Personal : Use personal protective equipment as required.</p> <p>Environmental : Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.</p> <p>Methods for cleaning up : Use a water rinse for final clean-up.</p>	<p>Product AT USE DILUTION</p> <p>Product is sold ready to use.</p>
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Section 7. Handling and storage

<p>Product AS SOLD</p> <p>Handling : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.</p> <p>Storage : Keep out of reach of children. Keep container tightly closed.</p> <p>Store between the following temperatures: 0 and 50°C</p>	<p>Product AT USE DILUTION</p> <p>Product is sold ready to use.</p>
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Section 8. Exposure controls/personal protection

<p>Control parameters</p> <p>Ingredient name : BUTOXYDIOLYCOL</p>	<p>Exposure limits</p> <p>ACGIH TLV (United States, 3/2012), TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapor</p>
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Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protection

: No protective equipment is needed under normal use conditions.

Hand protection

: No protective equipment is needed under normal use conditions.

Skin protection

: No protective equipment is needed under normal use conditions.

Respiratory protection

: A respirator is not needed under normal and intended conditions of product use.

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory, and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Section 9. Physical and chemical properties

<p>Product AS SOLD</p> <p>Physical state : Liquid.</p> <p>Color : Clear.</p> <p>Odor : citrus.</p> <p>H : 12.3 (100%)</p> <p>Flash point : > 100°C</p> <p>Product does not support combustion.</p>	<p>Product AT USE DILUTION</p> <p>Product is sold ready to use.</p>
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Section 9. Physical and chemical properties

<p>Explosion limits : Not available.</p> <p>Flammability (solid, gas) : Not available.</p> <p>Melting point : Not available.</p> <p>Boiling point : 100 °C (212°F)</p> <p>Evaporation rate (butyl acetate = 1) : Not available.</p> <p>Vapor pressure : Not available.</p> <p>Vapor density : Not available.</p> <p>Relative density : 1.016 (Water = 1)</p> <p>Solubility : Easily soluble in the following materials: cold water and hot water.</p> <p>Partition coefficient: : Not available.</p> <p>n-octanol/water : Not available.</p> <p>Auto-ignition temperature : Not available.</p> <p>Decomposition temperature : Not available.</p> <p>Odor threshold : Not available.</p> <p>Viscosity : Not available.</p>	<p>Product AS SOLD</p> <p>Stability : The product is stable.</p> <p>Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.</p> <p>Conditions to avoid : No specific data.</p> <p>Materials to avoid : Reactive or incompatible with the following materials: acids.</p> <p>Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.</p>
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Section 10. Stability and reactivity

Product AS SOLD

Stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Materials to avoid : 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.

Section 11. Toxicological information

<p>Route of exposure : Skin contact, Eye contact, Inhalation, Ingestion</p> <p>Product AS SOLD</p> <p>Symptoms</p> <p>Eye contact : Adverse symptoms may include the following: irritation, watering, redness</p> <p>Skin contact : No specific data.</p> <p>Inhalation : No specific data.</p> <p>Ingestion : No specific data.</p> <p>Acute toxicity</p> <p>Eye contact : Causes eye irritation.</p> <p>Skin contact : No known significant effects or critical hazards.</p> <p>Inhalation : No known significant effects or critical hazards.</p> <p>Ingestion : No known significant effects or critical hazards.</p> <p>Toxicity data</p> <p>Product/ingredient name</p>	<p>Product AT USE DILUTION</p> <p>Product is sold ready to use.</p>
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Section 11. Toxicological information

2-(2-butoxyethoxy)ethanol	LD50 Dermal	Rabbit	2764 mg/Kg
acetic acid, (ethylenedithio)tetra-	LD50 Oral	Rat	3306 mg/Kg
tetrascodium salt	LD50 Oral	Rat	1700 mg/Kg

Chronic toxicity
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

Section 12. Ecological information

Product AS SOLD : This material is harmful to aquatic life.

Aquatic and terrestrial toxicity
 Product/ingredient name : Result Species Exposure
 2-(2-butoxyethoxy)ethanol Acute LC50 1300 mg/l Fish 96 hours
 acetic acid, (ethylenedithio)tetra-, tetrascodium Acute LC50 121 mg/l Fish 96 hours
 salt
 Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Product AS SOLD
 Disposal methods : Dilute; product can be flushed to sanitary sewer.
 Discard empty container in trash.

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.

DOT : Not regulated.
 DOT Classification : Not regulated.
 IMO/MDG Classification : Not regulated.
 For transport in bulk, see shipping documents for specific transportation information.
 Product AT USE DILUTION :
 Not intended for transport.

Section 15. Regulatory information

Product AS SOLD
 U.S. Federal regulations : All components are listed or exempted.
 TSCA 8(b) Inventory : 1839-83-1677
 EPA Registration No. :
 SARA 302/304/311/312 extremely hazardous substances: No listed substance
 SARA 302/304 emergency planning and notification: No listed substance
 SARA 313 :
 Product Name :
 CAS number :
 Concentration :

Section 15. Regulatory information

Form R - Reporting : 2-(2-butoxyethoxy)ethanol 112-34-5 5 - 10
 requirements
 California Prop. 65 : No listed substance

Section 16. Other information

Product AS SOLD
 Hazardous Material Information System (U.S.A.) :

Health	1
Flammability	0
Physical hazards	0

National Fire Protection Association (U.S.A.) :



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 Prepared by : Regulatory Affairs
 1-800-352-5326

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.

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Section 1. Chemical product and company identification

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 Use only for the purpose on the product label.

Product dilution information : Not applicable

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 Outside United States and Canada CALL 1-651-222-5352 (In USA)

Section 2. Hazards identification

Product AS SOLD : Product AT USE DILUTION
 GHS Classification : SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B
 Signal word : CAUTION
 Hazard statements : Causes eye irritation.
 Precautionary statements : Wash hands thoroughly after handling.
 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 attention.
 Storage : No other specific measures identified.
 Disposal : See section 13 for waste disposal information.
 Other hazards : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture
 Product AS SOLD : Concentration Range (%) CAS number
 BUTOXYDIGLYCOL 8 112-34-5

Section 3. Composition/information on ingredients

Product AT USE DILUTION	Concentration Range (%)	CAS number
TETRASODIUM EDTA	1 - 5	64-02-8
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chlorides	0.105	68391-01-5
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chlorides	0.105	68956-79-6

Section 4. First aid measures

Product AS SOLD : Product AT USE DILUTION
 Product is solid ready to use.

Eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.

Skin contact : No known effect after skin contact. Rinse with water for a few minutes.
 : No special measures required. Treat symptomatically.

Inhalation : No special measures required. Treat symptomatically.
 : Get medical attention if symptoms occur.

Ingestion : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

See toxicological information (section 11)

Section 5. Fire-fighting measures

Product AS SOLD : Suitable fire extinguishing : Use water spray, fog or foam.

Specific hazards arising from the chemical decomposition products : In a fire or if heated, a pressure increase will occur and the container may burst.
 : Decomposition products may include the following materials:
 carbon dioxide
 carbon monoxide
 nitrogen oxides
 metal oxides/oxides

Specific fire-fighting methods : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

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

<p>Personal precautions</p> <ul style="list-style-type: none"> : Use personal protective equipment as required. 	<p>Product AS SOLD</p>	<p>Product AT USE DILUTION</p> <p>Product is sold ready to use.</p>
<p>Environmental precautions</p> <ul style="list-style-type: none"> : Avoid contact of large amounts of spilled material and runoff with soil and surface waterways. 		
<p>Methods for cleaning up</p> <ul style="list-style-type: none"> : Use a water rinse for final clean-up. 		

Section 7. Handling and storage

<p>Handling</p> <ul style="list-style-type: none"> : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. : Keep out of reach of children. Keep container tightly closed. 	<p>Product AS SOLD</p>	<p>Product AT USE DILUTION</p> <p>Product is sold ready to use.</p>
<p>Storage</p> <ul style="list-style-type: none"> : Store between the following temperatures: 0 and 50°C 		

Section 8. Exposure controls/personal protection

<p>Control parameters</p>	<p>Exposure limits</p>
<p>Ingredient name</p> <p>BUTOXYDIGLYCOL</p>	<p>ACGIH TLV (United States, 3/2012), TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapor</p>

<p>Appropriate engineering controls</p> <ul style="list-style-type: none"> : Good general ventilation should be sufficient to control worker exposure to airborne contaminants. 	<p>Product AS SOLD</p>	<p>Product AT USE DILUTION</p> <p>Product is sold ready to use.</p>
<p>Personal protection</p> <ul style="list-style-type: none"> : No protective equipment is needed under normal use conditions. 		
<p>Eye protection</p> <ul style="list-style-type: none"> : No protective equipment is needed under normal use conditions. 		
<p>Hand protection</p> <ul style="list-style-type: none"> : No protective equipment is needed under normal use conditions. 		
<p>Skin protection</p> <ul style="list-style-type: none"> : No protective equipment is needed under normal use conditions. 		
<p>Respiratory protection</p> <ul style="list-style-type: none"> : A respirator is not needed under normal and intended conditions of product use. 		
<p>Hygiene measures</p> <ul style="list-style-type: none"> : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. 		

Section 9. Physical and chemical properties

<p>Product AS SOLD</p> <ul style="list-style-type: none"> : Liquid. : Clear : colorless : 12.3 (100%) : > 100°C <p>Product does not support combustion.</p>	<p>Product AT USE DILUTION</p> <p>Product is sold ready to use.</p>
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Section 9. Physical and chemical properties

<p>Explosion limits</p>	: Not available.
<p>Flammability (solid, gas)</p>	: Not available.
<p>Melting point</p>	: Not available.
<p>Boiling point</p>	: 100°C (212°F)
<p>Evaporation rate (butyl acetate = 1)</p>	: Not available.
<p>Vapor pressure</p>	: Not available.
<p>Vapor density</p>	: Not available.
<p>Relative density</p>	: 1.018 (Water = 1)
<p>Solubility</p>	: Easily soluble in the following materials: cold water and hot water.
<p>Partition coefficient:</p>	: Not available.
<p>n-octanol/water</p>	: Not available.
<p>Auto-ignition temperature</p>	: Not available.
<p>Decomposition temperature</p>	: Not available.
<p>Odor threshold</p>	: Not available.
<p>Viscosity</p>	: Not available.

Section 10. Stability and reactivity

<p>Product AS SOLD</p>	<p>Stability</p> <ul style="list-style-type: none"> : The product is stable. : Under normal conditions of storage and use, hazardous reactions will not occur.
	<p>Conditions to avoid</p> <ul style="list-style-type: none"> : No specific data. : Reactive or incompatible with the following materials: acids.
	<p>Hazardous decomposition products</p> <ul style="list-style-type: none"> : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

<p>Route of exposure</p>	<p>Product AS SOLD</p> <ul style="list-style-type: none"> : Skin contact, Eye contact, Inhalation, Ingestion 	<p>Product AT USE DILUTION</p> <p>Product is sold ready to use.</p>
<p>Symptoms</p>	<p>Product AS SOLD</p> <ul style="list-style-type: none"> : Adverse symptoms may include the following: Irritation, watering, redness 	
<p>Skin contact</p>	<ul style="list-style-type: none"> : No specific data. : No specific data. : No specific data. 	
<p>Inhalation</p>		
<p>Ingestion</p>		
<p>Acute toxicity</p>	<ul style="list-style-type: none"> : Causes eye irritation. : No known significant effects or critical hazards. : No known significant effects or critical hazards. : No known significant effects or critical hazards. 	
<p>Eye contact</p>		
<p>Skin contact</p>		
<p>Inhalation</p>		
<p>Ingestion</p>		
<p>Toxicity data</p>	<p>Product/ingredient name</p>	

Section 11. Toxicological information

2-(2-butoxyethoxy)ethanol	LD50 Dermal	Rabbit	2764 mg/kg
acetic acid, (ethylethendithio)tetra-	LD50 Oral	Rat	3306 mg/kg
tetrasodium salt	LD50 Oral	Rat	1700 mg/kg

Chronic toxicity : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

Section 12. Ecological information

Product AS SOLD : This material is harmful to aquatic life.

Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
2-(2-butoxyethoxy)ethanol	Acute LC50 1300 mg/l	Fish	96 hours
acetic acid, (ethylethendithio)tetra-	Acute LC50 121 mg/l	Fish	96 hours

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Product AS SOLD	Product AT USE DILUTION
Disposal methods : Diluted product can be flushed to sanitary sewer. Discard empty container in trash.	Product to be sold ready to use.

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.

DOT	Not regulated.
DOT Classification	Not regulated.
IMD/MDG	Not regulated.
IMD/MDG Classification	Not regulated.
For transport in bulk, see shipping documents for specific transportation information.	
Product AT USE DILUTION	
Not intended for transport	

Section 15. Regulatory information

Product AS SOLD	
U.S. Federal regulations	
TSCA 6(b) Inventory	: All components are listed or exempted.
EPA Registration No.	: 1839-83-1677
SARA 302/304/311/312 extremely hazardous substances: No listed substance	
SARA 302/304 emergency planning and notification: No listed substance	
SARA 313	Product name
	CAS number
	Concentration

Section 15. Regulatory information

Form R - Reporting requirements	: 2-(2-butoxyethoxy)ethanol	112-34-5	5 - 10
California Prop. 65			: No listed substance

Section 16. Other information

Product AS SOLD
Hazardous Material Information System (U.S.A.)



National Fire Protection Association (U.S.A.)



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Prepared by : Regulatory Affairs
1-800-352-5326

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.