Material Safety Data Sheet

DENTA-ZYME

ECS LAE	B
----------------	---

1. Product and company identification		
Trade name of p	roduct : DENTA-ZYME	
Product dilution	information : Up to 1 oz/gal in water	
Supplier's infor	mation : Ecolab Inc. Healthcare Division 370 N. Wabasha St. St. Paul, MN 55102 1-866-781-8787	
Code	: 920942-01	
Date of issue	: 12-November-2010	
	EMERGENCY HEALTH INFORMATION: Outside United States and Canada CALL 1-6	
2. Hazards identification		
	Product AS SOLD	Product AT USE DILUTION
Physical state	: Liquid.	Liquid.
Emergency overview	: CAUTION !	CAUTION !
	MAY CAUSE EYE IRRITATION. MAY CAUSE ALLERGIC RESPIRATORY REACTION.	No specific hazard.
	Avoid contact with eyes. Avoid breathing vapors, spray or mists. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.	
Potential acute	health effects	
	Product AS SOLD	Product AT USE DILUTION
Eyes	: Slightly irritating to the eyes.	No known significant effects or critical hazards.
Skin	: Slightly irritating to the skin.	No known significant effects or critical hazards.
Inhalation	: May cause sensitization by inhalation.	No known significant effects or critical hazards.
Ingestion	: May be harmful if swallowed.	No known significant effects or critical hazards.

See toxicological information (Section 11)

3. Composition/information on ingredients

Product AS SOLD		
Name	<u>CAS number</u>	<u>% by weight</u>
alcohols, c12-14-secondary, ethoxylated	84133-50-6	1 - 5
SUBTILISIN	9014-01-1	<1.0
Product AT USE DILUTION		

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

4. First aid measures		
	Product AS SOLD	Product AT USE DILUTION
Eye contact	: Rinse with water for a few minutes.	No known effect after eye contact. Rinse with water for a few minutes.
Skin contact	: Rinse with water for a few minutes.	No known effect after skin contact. Rinse with water for a few minutes.
Inhalation	 If inhaled, remove to fresh air. If exposed person is not breathing, give artificial respiration or oxygen applied by trained personnel. Get medical attention. 	No special measures required. Treat symptomatically.
Ingestion	: Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.	Get medical attention if symptoms occur.

5. Fire-fighting measures

Product AS SOLD	
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
Fire-fighting media and instructions	: Use an extinguishing agent suitable for the surrounding fire.
	Dike area of fire to prevent runoff.
	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.

6. Accidental release measures

I		
	Product AS SOLD	Product AT USE DILUTION
Personal precautions	: Use personal protective equipment as required.	Use personal protective equipment as required.
Environmental precautions	: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.	Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
Methods for cleaning up	: Use a water rinse for final clean-up.	Use a water rinse for final clean-up.

7. Handling and storage

Handling : Avoid contact with eyes. Avoid breathing vapors, spray or mists. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Wash thoroughly after handling. Storage : Keep out of reach of children. Store in a closed container. Keep out of reach of children. Store in a closed container. Do not store below the following temperature: 0°C 0°C		Product AS SOLD	Product AT USE DILUTION
container.	Handling	spray or mists. Keep container closed. Use only with	
	Storage	container.	Keep out of reach of children.

8. Exposure controls/personal protection

8. Exposure controls/personal protection

Engineering measures	 Product AS SOLD 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. 		Product AT USE DILUTION Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Personal protect	ion		
Eyes			No protective equipment is needed under normal use conditions.
Hands	: No protective equipment is needed under normal use conditions.		No protective equipment is needed under normal use conditions.
Skin	: No protective equipment is needed under normal use conditions.		No protective equipment is needed under normal use conditions.
Respiratory	: Wear appropriate respirator when ventilation is inadequate and occupational exposure limits are exceeded.		No special protection is required.
Ingredient		Exposure limits	
SUBTILISIN		ACGIH TLV (United States, 2/2010).	

9. Physical and chemical properties

	Product AS SOLD	Product AT USE DILUTION
Physical state	: Liquid.	Liquid.
Flash point	: > 100°C Product does not support combustion.	> 100°C
Color	: Green [Light]	Green [Light]
Odor	: Fragrance-like	Fragrance-like
рН	: 6 to 8.5 [Conc. (% w/w): 100%]	6.5 to 6.8
Relative density	: 1.02 to 1.04	

10. Stability and reactivity

Product AS SOLD

Stability	Product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.	
Reactivity	Reactive or incompatible with the following materials: oxidizing materials.	
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products sho not be produced.	ould
Hazardous polymerization	Under normal conditions of storage and use, hazardous polymerization will not occur	·.

11. Toxicological information

Potential acute health effects

	Product AS SOLD
Eyes	: Slightly irritating to the eyes.
Skin	: Slightly irritating to the skin.

Product AT USE DILUTION

C: 0.00006 mg/m³, (measured as 100% pure crystalline enzyme)

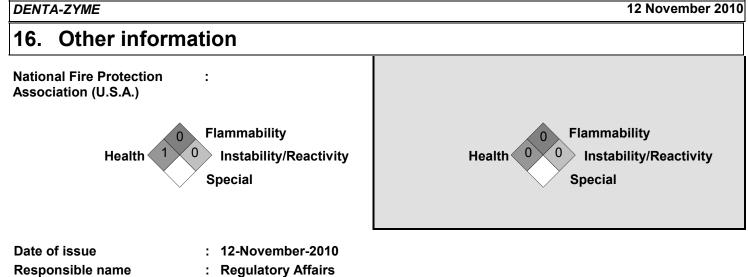
No known significant effects or critical hazards.

No known significant effects or critical hazards.

DENTA-ZYME		12 November 2010
11. Toxic	ological information	
Inhalation	: May cause sensitization by inhalation.	No known significant effects or critical
Ingestion	: May be harmful if swallowed.	hazards. No known significant effects or critical hazards.
12. Ecolo	gical information	
Ecotoxicity	: Not reported	
13. Dispo	sal considerations	
<u> </u>	Product AS SOLD	Product AT USE DILUTION
Waste disposal	: Diluted product can be flushed to sanital Discard empty container in trash.	ry sewer. Diluted product can be flushed to sanitary sewer. Discard empty container in trash.
14. Trans	port information	
	• • •	otions from the transport regulations. The classification oply to all shipping modes or package sizes.
Product AS S DOT Classific		
For transport	•	nipping documents for specific transportation information.
Product AT U	SE DILUTION	
Not intended for transport.		
15. Regu	latory information	
	Product AS SOLD	Product AT USE DILUTION
HCS Classification	: Sensitizing material	Not regulated.
Product AS SOLD		
U.S. Federal reg		
TSCA 8(b) inventory : All components are listed or exempted. SARA 302/304/311/312 extremely hazardous substances: No listed substance		
	04/311/312 extremely nazardous substant 04 emergency planning and notification:	
SARA 302/3	Product name	<u>CAS number</u> <u>Concentration</u>
Form R - Re requiremen	eporting : No listed substance	<u></u>
California Prop.		
16. Other	· information	
L	Product AS SOLD	Product AT USE DILUTION
Hazardous Mate Information Sys	·	
	Health 1	Health 0

Health	1
Flammability	0
Physical hazards	0

Health	0
	0
Flammability	0
Physical hazards	0



1-800-352-5326

✓ Indicates information that has changed from previously issued version.

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.