



**ENZYME TREATMENT 2**

HMIS		NFPA	Personal protective equipment
Health	1	1	None / Aucune / Ninguno
Fire Hazard	0	0	
Reactivity	0	0	

Version Number: 1

Preparation date: 2006-06-08

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product name:** ENZYME TREATMENT 2

**MSDS #:** 382702406001

**Product code:** 1500349, 382702406001, 3663037

**Recommended use:** Laundry care.

**Manufacturer, importer, supplier:**  
 US Headquarters: Canadian Headquarters  
 JohnsonDiversey, Inc. JohnsonDiversey - Canada, Inc.  
 8310 16th St. 2401 Bristol Circle  
 Sturtevant, Wisconsin 53177-0902 Oakville, Ontario L6H 6P1  
 Phone: 1-888-352-2249 Phone: 1-800-668-3131  
 MSDS Internet Address:  
 www.johnsondiversev.com

**Emergency telephone number:** 1-800-851-7145 (Prosar); 1-651-917-6133 (Int'l Prosar); 01-800-710-3400 (México)

**2. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

CAUTION. MAY BE MILDLY IRRITATING TO EYES. MAY BE MILDLY IRRITATING TO SKIN. COMBUSTIBLE LIQUID AND VAPOR.

**Principle routes of exposure:** Eye contact. Skin contact. Inhalation.

**Eye contact:** May be mildly irritating to eyes.

**Skin contact:** May be mildly irritating to skin.

**Inhalation:** None known.

**Ingestion:** None known.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**HAZARDOUS COMPONENTS**

Ingredient(s)	CAS #	Weight %	LD50 Oral - Rat	LD50 Dermal - Rabbit	LC50 Inhalation - Rat
Propylene glycol methyl ether	107-98-2	1 - 5%	= 5200 mg/kg	= 13000 mg/kg	= 54.6 mg/L (4h) > 24 mg/L (1h)
2-butoxyethanol	111-76-2	1 - 5%	= 470 mg/kg	= 220 mg/kg	= 2.21 mg/L (4h) = 450 ppm (4h)
Sodium lauryl sulfate	151-21-3	1 - 5%	= 1288 mg/kg	Not available	> 3900 mg/m <sup>3</sup> (1h)

**4. FIRST AID MEASURES**

**Eye contact:** Flush immediately with plenty of water. If irritation develops get medical attention.

**Skin contact:** Flush immediately with plenty of water. If irritation develops get medical attention.

**Inhalation:** No specific first aid measures are required.

**Ingestion:** No specific first aid measures are required.

**Aggravated Medical Conditions:** None known.

**5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media:** Use dry chemical, CO<sub>2</sub>, water spray or "alcohol" foam.

**Specific hazards:** Not applicable

**Unusual hazards:** None known

**Specific methods:** No special methods required

**Special protective equipment for firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## 5. FIRE-FIGHTING MEASURES

Extinguishing media which must not be used for safety reasons: No information available

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Use personal protective equipment  
**Environmental precautions and clean-up methods:** Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Use a water rinse for final clean-up.

## 7. HANDLING AND STORAGE

**Handling:**  
Avoid contact with skin and eyes. Keep away from open flames, hot surfaces and sources of ignition. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.  
**Storage:**  
Protect from freezing. Keep this product dry in original tightly closed container when not in use. Store in a cool, dry, well ventilated area away from heat or open flame. KEEP OUT OF THE REACH OF CHILDREN.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering measures to reduce exposure:**  
No special ventilation requirements. General room ventilation is adequate.

### Personal Protective Equipment

**Eye protection:** No special requirements under normal use conditions.  
**Hand protection:** No special requirements under normal use conditions.  
**Skin and body protection:** No special requirements under normal use conditions.  
**Respiratory protection:** No special requirements under normal use conditions.  
**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice.

Ingredient(s)	CAS #	ACGIH	OSHA	Mexico
Propylene glycol methyl ether	107-98-2	150 ppm (STEL) 100 ppm (TWA)		
2-butoxyethanol	111-76-2	20 ppm (TWA)	Skin 240 mg/m <sup>3</sup> (TWA) 50 ppm (TWA)	75 ppm (STEL) 360 mg/m <sup>3</sup> (STEL) 120 mg/m <sup>3</sup> (TWA) 26 ppm (TWA)

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b> Liquid	<b>Bulk density:</b> No information available
<b>pH:</b> 8.8	<b>Dilution pH:</b> No information available.
<b>Appearance:</b> Liquid	<b>Vapor density:</b> No information available
<b>Color:</b> Colourless	<b>Evaporation Rate:</b> No information available
<b>Odor:</b> Fruity	<b>Boiling point/range:</b> Not determined
<b>Specific gravity:</b> 1.01	<b>Melting point/range:</b> Not determined
<b>Density:</b> 8.43 lbs/gal	<b>Decomposition temperature:</b> Not determined
<b>VOC:</b> <2% *	<b>Autoignition temperature:</b> No information available
<b>Flash point:</b> 186 (°F) 85.6 (°C)	<b>Partition coefficient (n-octanol/water):</b> No information available
<b>Solubility:</b> Easily soluble	<b>Solubility in other solvents:</b> No information available
<b>Viscosity:</b> No information available	<b>Elemental Phosphorus:</b> 0 %P

\* - Title 17, California Code of Regulations, Division 3, Chapter 1, Subchapter 8.5, Article 2, Consumer Products, Sections 94508

## 10. STABILITY AND REACTIVITY

**Stability:** The product is stable  
**Polymerization:** Hazardous polymerization does not occur  
**Hazardous decomposition products:** None reasonably foreseeable.  
**Materials to avoid:** Oxidising agents.  
**Conditions to avoid:** Keep away from heat. Keep away from open flames, hot surfaces and sources of ignition.

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**  
**Component Information:** Oral LD50 estimated to be greater than 5000 mg/kg  
See Section 3  
**Chronic toxicity:** None known

## 11. TOXICOLOGICAL INFORMATION

### Specific effects

Carcinogenic effects: None known  
Mutagenic effects: None known  
Reproductive toxicity: None known  
Target organ effects: None known

## 12. ECOLOGICAL INFORMATION

Environmental Information: No data available

## 13. DISPOSAL CONSIDERATIONS

### Waste from residues / unused products:

Dispose of according to all federal, state and local applicable regulations

## 14. TRANSPORT INFORMATION

DOT/TDG: Please refer to the Bill of Lading/receiving documents for up to date shipping information

## 15. REGULATORY INFORMATION

### International Inventories

All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL/NDSL).

### U.S. Regulations

California Proposition 65: This product is not subject to the reporting requirements under California's Proposition 65

### STATE RIGHT TO KNOW

Ingredient(s)	CAS #	MARTK:	NJRTK:	PARTK:	RIRTK:
Propylene glycol methyl ether	107-98-2	X	X	X	X
2-butoxyethanol	111-76-2	X	X	X	X
Sodium lauryl sulfate	151-21-3	-	-	-	-
1-(3-chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride	4080-31-3	-	-	-	-
Bacillus subtilis	68038-70-0	-	-	-	-
Water	7732-18-5	-	-	-	-
Polyacrylate Mixture	TS*	-	-	-	-

### CERCLA/ SARA

Ingredient(s)	CAS #	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
2-butoxyethanol	111-76-2	1 - 5%			X
1-(3-chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride	4080-31-3	1 - 5%			X

### SARA 311/312 Hazard Categories

Fire: Y

### Canada

WHMIS hazard class: B3 Combustible liquid .



Ingredient(s)	CAS #	NPRI
2-butoxyethanol	111-76-2	X

## 16. OTHER INFORMATION

Reason for revision: Not applicable  
Prepared by: NAPRAC  
Additional advice: None

## 16. OTHER INFORMATION

*Notice to Reader: This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained within. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.*