




## SECTION 1: IDENTIFICATION

**MANUFACTURED FOR:** YOUNG INNOVATIONS, INC. - DBA [DEFEND]  
**ADDRESS:** 2260 WENDT STREET  
**CITY, STATE, ZIP:** ALGONQUIN, IL 60102 USA  
**TELEPHONE:** 1-800-275-0020  
**PRODUCT ITEM NO.:** UT-1000  
**PRODUCT NAME/IDENTIFIER:** DEFEND ULTRA SONIC ENZYMATIC TABLETS  
**COMMON NAME:** N/A  
**RECOMMENDED USE OF THE CHEMICAL & RESTRICTIONS ON USE:** ULTRASONIC CLEANER FOR DENTAL INSTRUMENTS  
**24 HR EMERGENCY PHONE #** INFOTRAC 1-800-535-5053 / OUTSIDE U.S. 1-352-323-3500

## SECTION 2: HAZARD(S) IDENTIFICATION

### CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

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**HEALTH HAZARD**  
**SENSITIZATION - RESPIRATORY 1:** H334 MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED.
- 
**CORROSION**  
**EYE DAMAGE 1:** H318 CAUSES SERIOUS EYE DAMAGE.
- 
**SKIN IRRITATION 2**  
**SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE):** H315 CAUSES SKIN IRRITATION; H335 MAY CAUSE RESPIRATORY IRRITATION.

### LABEL ELEMENTS: HAZARD PICTOGRAMS:



**SIGNAL WORD:** DANGER

**HAZARD-DETERMINING COMPONENTS OF LABELING:** SUBTILISIN, SODIUM BENZOATE

**TRADE NAME:** DEFEND ULTRA SONIC ENZYMATIC TABLETS

### HAZARD STATEMENTS

H315	CAUSES SKIN IRRITATION.
H318	CAUSES SERIOUS EYE DAMAGE.
H334	MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED.
H335	MAY CAUSE RESPIRATORY IRRITATION.

### PRECAUTIONARY STATEMENTS:

P261	AVOID BREATHING DUST/FUME/GAS/MIST/VAPORS/SPRAY.
P264	WASH THOROUGHLY AFTER HANDLING.
P271	USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA.
P280	WEAR PROTECTIVE GLOVES / EYE PROTECTION / FACE PROTECTION.
P284	IN CASE OF INADEQUATE VENTILATION] WEAR RESPIRATORY PROTECTION.
P302+P352	IF ON SKIN: WASH WITH PLENTY OF WATER.
P304+P340	IF INHALED: REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING.
P305+P351+P338	IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING.
P310	IMMEDIATELY CALL A POISON CENTER/DOCTOR.
P321	SPECIFIC TREATMENT (SEE SUPPLEMENTARY FIRST AID INSTRUCTIONS ON THIS SAFETY DATA SHEET).
P312	CALL A POISON CENTER/DOCTOR IF YOU FEEL UNWELL.

## SECTION 2: HAZARD(S) IDENTIFICATION (CONT.)

### PRECAUTIONARY STATEMENTS (CONT.)

P362+P364	TAKE OFF CONTAMINATED CLOTHING AND WASH IT BEFORE REUSE.
P332+P313	IF SKIN IRRITATION OCCURS: GET MEDICAL ADVICE/ATTENTION.
P342+P311	IF EXPERIENCING RESPIRATORY SYMPTOMS: CALL A POISON CENTER/DOCTOR.
P403+P233	STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED.
P405	STORE LOCKED UP.
P501	DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATIONS.

**UNKNOWN ACUTE TOXICITY:** THIS VALUE REFERS TO KNOWLEDGE OF KNOWN, ESTABLISHED TOXICOLOGICAL OR ECOTOXICOLOGICAL VALUES. 0 % OF THE MIXTURE CONSISTS OF COMPONENT(S) OF UNKNOWN TOXICITY.

### INFORMATION PERTAINING TO PARTICULAR DANGERS FOR MAN AND ENVIRONMENT:

**CLASSIFICATION SYSTEM:** NFPA/HMIS DEFINITIONS: 0-LEAST, 1-SLIGHT, 2-MODERATE, 3-HIGH, 4-EXTREME

### NFPA RATINGS (SCALE 0 - 4)



HEALTH = 3  
FIRE = 0  
REACTIVITY = 0

### HMIS-RATINGS (SCALE 0 - 4)

HEALTH: *3
FIRE: 0
REACTIVITY: 0

HEALTH = \*3  
FIRE = 0  
PHYSICAL HAZARD = 0

**HAZARD(S) NOT OTHERWISE CLASSIFIED (HNOC):** NONE KNOWN

**CLASSIFICATION ACCORDING TO (D)(1)(II) OF § 1910.1200:** THE SDS ISSUER DOES NOT OBJECT TO THE CLASSIFICATIONS PROVIDED BY IMPORTERS OR MANUFACTURERS OF PRECURSOR PRODUCTS.

**HAZARDS NOT OTHERWISE CLASSIFIED:** THERE ARE NO ADVERSE PHYSICAL OR HEALTH EFFECTS KNOWN THAT ARE NOT COVERED BY THE HAZARD CLASSES OF THE HAZARD COMMUNICATIONS STANDARD.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### CHEMICAL CHARACTERIZATION: SUBSTANCE

**DESCRIPTION:** MIXTURE OF SUBSTANCES LISTED WITH NON-HAZARDOUS ADDITIONS AND/OR COMPONENTS THAT ARE LESS THAN LISTING THRESHOLD. ALL NON-HAZARDOUS, COMPONENTS LISTED UNDER THRESHOLD, AND LISTED COMPONENT TOTAL 100%.

### DANGEROUS COMPONENTS:

CAS: 497-19-8	SODIUM CARBONATE  EYE IRRITATION 2A, H319	15-35%
CAS: 9014-01-1 RTECS: CO 9550000	SUBTILISIN  SENSITIZATION - RESPIRATORY 1, H334;  EYE DAMAGE 1, H318;  SKIN IRRITATION 2, H315; SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) 3, H335	15-35%
CAS: 77-92-9 RTECS: GE 7350000	CITRIC ACID  EYE IRRITATION 2A, H319; SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) 3, H335	15-35%
CAS: 532-32-1	SODIUM BENZOATE  SKIN IRRITATION 2, H315; EYE IRRITATION 2A, H319; SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) 3, H335	2-12%
CAS: 25322-68-3	POLYETHYLENE GLYCOL	2-12%

**ADDITIONAL INFORMATION:** THE EXACT PERCENTAGES OF THE INGREDIENTS OF THIS MIXTURE ARE CONSIDERED TO BE PROPRIETARY AND ARE WITHHELD IN ACCORDANCE WITH THE PROVISIONS OF PARAGRAPH (I) OF §1910.1200 OF 29 CFR 1910.1200 TRADE SECRETS.

## SECTION 4: FIRST AID MEASURES

### DESCRIPTION OF FIRST AID MEASURES

**GENERAL INFORMATION:** SYMPTOMS OF POISONING MAY OCCUR AFTER EXPOSURE TO DUST, FUMES OR PARTICULATES; SEEK MEDICAL ATTENTION IF FEELING UNWELL.

**AFTER INHALATION:** SUPPLY FRESH AIR. IF REQUIRED, PROVIDE ARTIFICIAL RESPIRATION. CONSULT DOCTOR IF SYMPTOMS PERSIST. IN CASE OF UNCONSCIOUSNESS PLACE PATIENT STABLY IN THE SIDE POSITION FOR TRANSPORTATION.

**AFTER SKIN CONTACT:** IMMEDIATELY WASH WITH WATER AND SOAP AND RINSE THOROUGHLY. IF SKIN IRRITATION OCCURS, CONSULT A DOCTOR.

**AFTER EYE CONTACT:** RINSE OPENED EYE FOR SEVERAL MINUTES UNDER RUNNING WATER. THEN CONSULT A DOCTOR. IF EASY TO DO SO, REMOVE CONTACT LENSES IF WORN. IF EYE IRRITATION OCCURS, CONSULT A DOCTOR.

**AFTER SWALLOWING:** IF SWALLOWED AND SYMPTOMS OCCUR, CONSULT A DOCTOR. DO NOT INDUCE VOMITING WITHOUT MEDICAL ADVICE.

**MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:** NO FURTHER RELEVANT INFORMATION AVAILABLE.

**INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:** NO FURTHER RELEVANT INFORMATION AVAILABLE.

## SECTION 5: FIRE FIGHTING MEASURES

### EXTINGUISHING MEDIA

**SUITABLE EXTINGUISHING AGENTS:** CO<sub>2</sub>, SAND, DRY CHEMICAL, WATER SPRAY OR ALCOHOL RESISTANT FOAM.

USE FIRE FIGHTING MEASURES THAT SUIT THE ENVIRONMENT.

**FOR SAFETY REASONS UNSUITABLE EXTINGUISHING AGENTS:** NO FURTHER RELEVANT INFORMATION.

**SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:** NO FURTHER RELEVANT INFORMATION AVAILABLE.

### ADVICE FOR FIREFIGHTERS

**SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:** AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND (NIOSH APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR TO PREVENT CONTACT WITH SKIN AND EYES.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:** WEAR PROTECTIVE EQUIPMENT. KEEP UNPROTECTED PERSONS AWAY.

**ENVIRONMENTAL PRECAUTIONS:** DILUTE WITH PLENTY OF WATER.

**METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:** ABSORB WITH LIQUID-BINDING MATERIAL (I.E. SAND, DIATOMITE, ACID BINDERS, UNIVERSAL BINDERS, SAWDUST). DISPOSE OF CONTAMINATED MATERIAL AS WASTE ACCORDING TO SECTION 13. ENSURE ADEQUATE VENTILATION. DISPOSE OF THE COLLECTED MATERIAL ACCORDING TO REGULATIONS.

### PAC-1:

144-55-8	SODIUM BICARBONATE	13 MG/M <sup>3</sup>
497-19-8	SODIUM CARBONATE	7.6 MG/M <sup>3</sup>
532-32-1	SODIUM BENZOATE	61 MG/M <sup>3</sup>
25322-68-3	POLYETHYLENE GLYCOL	30 MG/M <sup>3</sup>

### PAC-2:

144-55-8	SODIUM BICARBONATE	140 MG/M <sup>3</sup>
497-19-8	SODIUM CARBONATE	83 MG/M <sup>3</sup>
532-32-1	SODIUM BENZOATE	140 MG/M <sup>3</sup>
25322-68-3	POLYETHYLENE GLYCOL	1,300 MG/M <sup>3</sup>

## SECTION 6: ACCIDENTAL RELEASE MEASURES (CONT.)

### PAC-3:

144-55-8	SODIUM BICARBONATE	840 MG/M <sup>3</sup>
497-19-8	SODIUM CARBONATE	500 MG/M <sup>3</sup>
532-32-1	SODIUM BENZOATE	830 MG/M <sup>3</sup>
25322-68-3	POLYETHYLENE GLYCOL	7,700 MG/M <sup>3</sup>

**REFERENCE TO OTHER SECTIONS:** SEE SECTION 7 FOR INFORMATION ON SAFE HANDLING. SEE SECTION 8 FOR INFORMATION ON PERSONAL PROTECTION EQUIPMENT. SEE SECTION 13 FOR DISPOSAL INFORMATION.

## SECTION 7: HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** ENSURE GOOD VENTILATION/EXHAUSTION AT THE WORKPLACE. PREVENT FORMATION OF AEROSOLS.

**INFORMATION ABOUT PROTECTION AGAINST EXPLOSIONS AND FIRES:** NO SPECIAL MEASURES REQUIRED.

**CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

### STORAGE

**REQUIREMENTS TO BE MET BY STOREROOMS AND RECEPTACLES:** NO SPECIAL REQUIREMENTS.

**INFORMATION ABOUT STORAGE IN ONE COMMON STORAGE FACILITY:** NOT REQUIRED.

**FURTHER INFORMATION ABOUT STORAGE CONDITIONS:** KEEP RECEPTACLE TIGHTLY SEALED.

**SPECIFIC END USE(S):** NO FURTHER RELEVANT INFORMATION AVAILABLE.

## SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

### CONTROL PARAMETERS:

**COMPONENTS WITH OCCUPATIONAL EXPOSURE LIMITS:** THE FOLLOWING CONSTITUENTS ARE THE ONLY CONSTITUENTS OF THE PRODUCT WHICH HAVE A PEL, TLV OR OTHER RECOMMENDED EXPOSURE LIMIT. AT THIS TIME, THE OTHER CONSTITUENTS HAVE NO KNOWN EXPOSURE LIMITS.

#### 9014-01-1 SUBTILISIN

REL SHORT-TERM VALUE: 0.00006\* MG/M<sup>3</sup> \*60-MIN

TLV CEILING LIMIT VALUE: 0.00006 MG/M<sup>3</sup> AS 100% CRYSTALLINE ACTIVE PURE ENZYME

#### 532-32-1 SODIUM BENZOATE

TLV LONG-TERM VALUE: 2.5 MG/M<sup>3</sup> INH. FRACTION, SKIN, A5

#### 25322-68-3 POLYETHYLENE GLYCOL

WEEL LONG-TERM VALUE: 10 MG/M<sup>3</sup> (H); MW>200

**ADDITIONAL INFORMATION:** THE LISTS THAT WERE VALID DURING THE CREATION OF THIS SDS WERE USED AS BASIS.

### EXPOSURE CONTROLS:

**APPROPRIATE ENGINEERING CONTROLS NO FURTHER DATA; SEE SECTION 7.**

### PERSONAL PROTECTIVE EQUIPMENT

**GENERAL PROTECTIVE AND HYGIENIC MEASURES:** THE USUAL PRECAUTIONARY MEASURES FOR HANDLING CHEMICALS SHOULD BE FOLLOWED. KEEP AWAY FROM FOODSTUFFS, BEVERAGES AND FEED. IMMEDIATELY REMOVE ALL SOILED AND CONTAMINATED CLOTHING AND WASH BEFORE REUSE. WASH HANDS BEFORE BREAKS AND AT THE END OF WORK. AVOID CONTACT WITH THE SKIN. AVOID CONTACT WITH THE EYES AND SKIN.

**BREATHING EQUIPMENT:** NOT REQUIRED.

## SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION (CONT.)



**PROTECTIVE GLOVES:** THE GLOVE MATERIAL HAS TO BE IMPERMEABLE AND RESISTANT TO THE PRODUCT/ THE SUBSTANCE/ THE PREPARATION.

**MATERIAL OF GLOVES:** CHEMICAL RESISTANT

THE SELECTION OF THE SUITABLE GLOVES DOES NOT ONLY DEPEND ON THE MATERIAL, BUT ALSO ON FURTHER MARKS OF QUALITY AND VARIES FROM MANUFACTURER TO MANUFACTURER. AS THE PRODUCT IS A PREPARATION OF SEVERAL SUBSTANCES, THE RESISTANCE OF THE GLOVE MATERIAL CANNOT BE CALCULATED IN ADVANCE AND HAS THEREFORE TO BE CHECKED PRIOR TO THE APPLICATION.

**PENETRATION TIME OF GLOVE MATERIAL:** THE EXACT BREAK-THROUGH TIME HAS TO BE DETERMINED AND OBSERVED BY THE MANUFACTURER OF THE PROTECTIVE GLOVES.



**EYE PROTECTION:** TIGHTLY SEALED GOGGLES



**BODY PROTECTION:** PROTECTIVE WORK CLOTHING

**LIMITATION AND SUPERVISION OF EXPOSURE INTO THE ENVIRONMENT:** NONE

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

#### GENERAL INFORMATION

**PHYSICAL:** STATE SOLID

**COLOR:** WHITE AND BROWN SPECKLED

**ODOR:** MINT

**ODOR THRESHOLD:** NOT DETERMINED.

**MELTING POINT/MELTING RANGE:** NOT DETERMINED.

**BOILING POINT/BOILING RANGE:** NOT DETERMINED.

**FLAMMABILITY:** NOT APPLICABLE.

#### EXPLOSION LIMITS:

**LOWER:** NOT DETERMINED.

**UPPER:** NOT DETERMINED.

**FLASH POINT:** NONE

**AUTO IGNITING:**  $\geq 150$  °C ( $\geq 302$  °F)

**DECOMPOSITION TEMPERATURE:** NOT DETERMINED.

**PH-VALUE:** NOT DETERMINED.

#### VISCOSITY:

**KINEMATIC:** NOT DETERMINED.

**DYNAMIC:** NOT DETERMINED.

#### SOLUBILITY IN / MISCIBILITY WITH:

**WATER:** FULLY MISCIBLE.

**PARTITION COEFFICIENT (N-OCTANOL/WATER):** NOT DETERMINED.

**VAPOR PRESSURE:** NOT DETERMINED.

#### VAPOR PRESSURE:

**DENSITY @ 20 °C (68 °F):** 1.7074 G/CM<sup>3</sup> (14.2483 LBS/GAL)

**RELATIVE DENSITY:** NOT DETERMINED.

**VAPOR DENSITY:** NOT DETERMINED.

**PARTICLE CHARACTERISTICS:** NOT DETERMINED.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (CONT.)

### OTHER INFORMATION:

#### APPEARANCE:

FORM: TABLETS

IMPORTANT INFORMATION ON PROTECTION OF HEALTH AND ENVIRONMENT, AND ON SAFETY.

IGNITION TEMPERATURE: PRODUCT IS NOT SELF-IGNITING.

DANGER OF EXPLOSION: PRODUCT DOES NOT PRESENT AN EXPLOSION HAZARD.

#### SOLVENT CONTENT:

VOC CONTENT: 0.00 %

SOLIDS CONTENT: 80.0 %

#### CHANGE IN CONDITION

EVAPORATION RATE: NOT DETERMINED.

## SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: NO FURTHER RELEVANT INFORMATION AVAILABLE.

- CHEMICAL STABILITY: PRODUCT IS STABLE UNDER NORMAL CONDITIONS.

- THERMAL DECOMPOSITION / CONDITIONS TO BE AVOIDED: NO DECOMPOSITION IF USED ACCORDING TO SPECIFICATIONS.

- POSSIBILITY OF HAZARDOUS REACTIONS: NO DANGEROUS REACTIONS KNOWN.

- CONDITIONS TO AVOID:

HIGH TEMPERATURES.

HEAT, FLAME AND IGNITION SOURCES.

- INCOMPATIBLE MATERIALS: NO FURTHER RELEVANT INFORMATION AVAILABLE.

- HAZARDOUS DECOMPOSITION PRODUCTS: NO DANGEROUS DECOMPOSITION PRODUCTS KNOWN.

## SECTION 11: TOXICOLOGICAL INFORMATION

### INFORMATION ON TOXICOLOGICAL EFFECTS:

#### ACUTE TOXICITY:

#### LD/LC50 VALUES THAT ARE RELEVANT FOR CLASSIFICATION:

#### 497-19-8 SODIUM CARBONATE

ORAL LD50 4,090 MG/KG (RAT)

INHALATIVE LC50/96 HOURS 300 MG/L (CYPRINODON VARIEGATUS (MINNOW))

#### 9014-01-1 SUBTILISIN

ORAL LD50 3,700 MG/KG (RAT)

#### 77-92-9 CITRIC ACID

ORAL LD50 5,040 MG/KG (MOUSE)

5,400 MG/KG (RAT)

DERMAL LD50 >2,000 MG/KG (RAT)

LC50/48 HRS 440 MG/L (DAPHNIA)

#### 532-32-1 SODIUM BENZOATE

ORAL LD50 1,600 MG/KG (MOUSE)

4,070 MG/KG (RAT)

2,000 MG/KG (RABBIT)

#### 25322-68-3 POLYETHYLENE GLYCOL

ORAL LD50 >5,000 MG/KG (RAT)

DERMAL LD50 >5,000 MG/KG (RABBIT)

INHALATIVE LC50/96 HOURS 10,000 MG/L (FISH - POECILIA RETICULATE, 96H)

## SECTION 11: TOXICOLOGICAL INFORMATION (CONT.)

### PRIMARY IRRITANT EFFECT:

**ON THE SKIN:** STRONG CAUSTIC EFFECT ON SKIN AND MUCOUS MEMBRANES. IRRITANT TO SKIN AND MUCOUS MEMBRANES.

**ON THE EYE:** STRONG IRRITANT WITH THE DANGER OF SEVERE EYE INJURY. CORROSIVE EFFECT. CAUSES SERIOUS EYE IRRITATION.

**SENSITIZATION:** SENSITIZATION POSSIBLE THROUGH INHALATION.

**ADDITIONAL TOXICOLOGICAL INFORMATION:** THE PRODUCT SHOWS THE FOLLOWING DANGERS ACCORDING TO INTERNALLY APPROVED CALCULATION METHODS FOR PREPARATIONS: HARMFUL, IRRITANT

**INTERACTIVE EFFECTS:** NO INTERACTIVE EFFECTS BETWEEN COMPONENTS ARE KNOWN.

### CARCINOGENIC CATEGORIES:

**IARC (INTERNATIONAL AGENCY FOR RESEARCH ON CANCER):** NONE OF THE INGREDIENTS ARE LISTED.

**NTP (NATIONAL TOXICOLOGY PROGRAM):** NONE OF THE INGREDIENTS ARE LISTED.

**OSHA-CA (OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION):** NONE OF THE INGREDIENTS ARE LISTED.

**ALTERNATIVE SOURCES FOR TOXICOLOGICAL INFORMATION:** NO NON-STANDARD SOURCES FOR TOXICOLOGICAL INFORMATION WHERE USED.

## SECTION 12: ECOLOGICAL INFORMATION

### TOXICITY:

#### AQUATIC TOXICITY:

**497-19-8 SODIUM CARBONATE:** EC50 227 MG/L (DAPHNIA)

**77-92-9 CITRIC ACID:** EC50 1,534 MG/L (DAPHNIA)

**PERSISTENCE AND DEGRADABILITY:** NO FURTHER RELEVANT INFORMATION AVAILABLE.

**BIOACCUMULATIVE POTENTIAL:** NO FURTHER RELEVANT INFORMATION AVAILABLE.

**MOBILITY IN SOIL:** NO FURTHER RELEVANT INFORMATION AVAILABLE.

#### RESULTS OF PBT AND VPVB ASSESSMENT:

**PBT:** NOT APPLICABLE.

**VPVB:** NOT APPLICABLE.

#### OTHER ADVERSE EFFECTS:

#### ADDITIONAL ECOLOGICAL INFORMATION:

**GENERAL NOTES:** DO NOT ALLOW UNDILUTED PRODUCT OR PRODUCT THAT HAS NOT BEEN NEUTRALIZED TO REACH GROUND WATER, WATER COURSE OR SEWAGE SYSTEM.

## SECTION 13: DISPOSAL CONSIDERATIONS

### WASTE TREATMENT METHODS

**RECOMMENDATION:** OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS WHEN DISPOSING OF THIS MATERIAL.

#### UNCLEANED PACKAGING

**RECOMMENDATION:** DISPOSAL MUST BE MADE ACCORDING TO OFFICIAL REGULATIONS.

**RECOMMENDED CLEANSING AGENT:** WATER, IF NECESSARY WITH CLEANSING AGENTS.

## SECTION 14: TRANSPORT INFORMATION

### UN-NUMBER:

**DOT, ADR/ADN, IMDG, IATA:** NON-REGULATED MATERIAL

## SECTION 14: TRANSPORT INFORMATION (CONT.)

### UN PROPER SHIPPING NAME:

DOT, ADR/ADN, IMDG, IATA: NON-REGULATED MATERIAL

### TRANSPORT HAZARD CLASS(ES):

DOT, ADR/ADN, ADN, IMDG, IATA

CLASS: NON-REGULATED MATERIAL

### PACKING GROUP:

DOT, ADR/ADN, IMDG, IATA: NON-REGULATED MATERIAL

ENVIRONMENTAL HAZARDS: NOT APPLICABLE.

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE: NOT APPLICABLE.

SPECIAL PRECAUTIONS FOR USER: NOT APPLICABLE.

UN "MODEL REGULATION": NON-REGULATED MATERIAL

## SECTION 15: REGULATORY INFORMATION

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE: NO FURTHER RELEVANT INFORMATION AVAILABLE.

### SARA (SUPERFUND AMENDMENTS AND REAUTHORIZATION):

SECTION 355 (EXTREMELY HAZARDOUS SUBSTANCES): NONE OF THE INGREDIENTS ARE LISTED.

SECTION 313 (SPECIFIC TOXIC CHEMICAL LISTINGS): NONE OF THE INGREDIENTS ARE LISTED.

TSCA (TOXIC SUBSTANCES CONTROL ACT): ALL COMPONENTS HAVE THE VALUE ACTIVE.

HAZARDOUS AIR POLLUTANTS: NONE OF THE INGREDIENTS ARE LISTED.

### CALIFORNIA PROPOSITION 65:

CHEMICALS KNOWN TO CAUSE CANCER: NONE OF THE INGREDIENTS ARE LISTED.

CHEMICALS KNOWN TO CAUSE REPRODUCTIVE TOXICITY FOR FEMALES: NONE OF THE INGREDIENTS ARE LISTED.

CHEMICALS KNOWN TO CAUSE REPRODUCTIVE TOXICITY FOR MALES: NONE OF THE INGREDIENTS ARE LISTED.

CHEMICALS KNOWN TO CAUSE DEVELOPMENTAL TOXICITY: NONE OF THE INGREDIENTS ARE LISTED.

NEW JERSEY RIGHT-TO-KNOW LIST: 25322-68-3 POLYETHYLENE GLYCOL

NEW JERSEY SPECIAL HAZARDOUS SUBSTANCE LIST: NONE OF THE INGREDIENTS ARE LISTED.

PENNSYLVANIA RIGHT-TO-KNOW LIST: 25322-68-3 POLYETHYLENE GLYCOL

PENNSYLVANIA SPECIAL HAZARDOUS SUBSTANCE LIST: NONE OF THE INGREDIENTS ARE LISTED.

### CARCINOGENIC CATEGORIES:

EPA (ENVIRONMENTAL PROTECTION AGENCY): NONE OF THE INGREDIENTS ARE LISTED.

TLV (THRESHOLD LIMIT VALUE ESTABLISHED BY ACGIH): NONE OF THE INGREDIENTS ARE LISTED.

NIOSH-CA (NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH): NONE OF THE INGREDIENTS ARE LISTED.

GHS LABEL ELEMENTS: THE PRODUCT IS CLASSIFIED AND LABELED ACCORDING TO THE GLOBALLY HARMONIZED SYSTEM (GHS).

### HAZARD PICTOGRAMS:



SIGNAL WORD: DANGER

HAZARD-DETERMINING COMPONENTS OF LABELING: SUBTILISIN, SODIUM BENZOATE

### HAZARD STATEMENTS:

H315 CAUSES SKIN IRRITATION.

H318 CAUSES SERIOUS EYE DAMAGE.

H334 MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED.

H335 MAY CAUSE RESPIRATORY IRRITATION.

## SECTION 15: REGULATORY INFORMATION (CONT.)

**P261** AVOID BREATHING DUST/FUME/GAS/MIST/VAPORS/SPRAY.

**P264** WASH THOROUGHLY AFTER HANDLING.

**P271** USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA.

**P280** WEAR PROTECTIVE GLOVES / EYE PROTECTION / FACE PROTECTION.

**P284** [IN CASE OF INADEQUATE VENTILATION] WEAR RESPIRATORY PROTECTION.

**P302+P352 IF ON SKIN:** WASH WITH PLENTY OF WATER.

**P304+P340 IF INHALED:** REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING.

**P305+P351+P338 IF IN EYES:** RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING.

**P310** IMMEDIATELY CALL A POISON CENTER/DOCTOR.

**P321** SPECIFIC TREATMENT (SEE SUPPLEMENTARY FIRST AID INSTRUCTIONS ON THIS SAFETY DATA SHEET).

**P312** CALL A POISON CENTER/DOCTOR IF YOU FEEL UNWELL.

**P362+P364** TAKE OFF CONTAMINATED CLOTHING AND WASH IT BEFORE REUSE.

**P332+P313** IF SKIN IRRITATION OCCURS: GET MEDICAL ADVICE/ATTENTION.

**P342+P311** IF EXPERIENCING RESPIRATORY SYMPTOMS: CALL A POISON CENTER/DOCTOR.

**P403+P233** STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED.

**P405** STORE LOCKED UP.

**P501** DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATIONS.

**NATIONAL REGULATIONS:** THE PRODUCT IS NOT SUBJECT TO BE LABELLED ACCORDING WITH THE PREVAILING VERSION OF THE REGULATIONS ON HAZARDOUS SUBSTANCES.

**CHEMICAL SAFETY ASSESSMENT:** A CHEMICAL SAFETY ASSESSMENT HAS NOT BEEN CARRIED OUT.

## SECTION 16: ADDITIONAL INFORMATION

THE INFORMATION AND RECOMMENDATIONS IN THIS SAFETY DATA SHEET ARE, TO THE BEST OF OUR KNOWLEDGE, ACCURATE AS OF THE DATE OF ISSUE. NOTHING HEREIN SHALL BE DEEMED TO CREATE WARRANTY, EXPRESSED OR IMPLIED, AND SHALL NOT ESTABLISH A LEGALLY VALID CONTRACTUAL RELATIONSHIP. IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE APPLICABILITY OF THIS INFORMATION AND THE SUITABILITY OF THE MATERIAL OR PRODUCT FOR ANY PARTICULAR PURPOSE.

### ABBREVIATIONS AND ACRONYMS:

ADR: THE EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD

ADN: THE EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS

IMDG: INTERNATIONAL MARITIME CODE FOR DANGEROUS GOODS

DOT: US DEPARTMENT OF TRANSPORTATION

IATA: INTERNATIONAL AIR TRANSPORT ASSOCIATION

EINECS: EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES

ELINCS: EUROPEAN LIST OF NOTIFIED CHEMICAL SUBSTANCES

CAS: CHEMICAL ABSTRACTS SERVICE (DIVISION OF THE AMERICAN CHEMICAL SOCIETY)

NFPA: NATIONAL FIRE PROTECTION ASSOCIATION (USA)

HMIS: HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (USA)

VOC: VOLATILE ORGANIC COMPOUNDS (USA, EU)

LC50: LETHAL CONCENTRATION, 50 PERCENT

LD50: LETHAL DOSE, 50 PERCENT

PBT: PERSISTENT, BIOACCUMULATIVE AND TOXIC

VPVB: VERY PERSISTENT AND VERY BIOACCUMULATIVE

NIOSH: NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH

OSHA: OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION

TLV: THRESHOLD LIMIT VALUE

PEL: PERMISSIBLE EXPOSURE LIMIT

REL: RECOMMENDED EXPOSURE LIMIT

SKIN IRRITATION 2: SKIN CORROSION/IRRITATION – CATEGORY 2

EYE DAMAGE 1: SERIOUS EYE DAMAGE/EYE IRRITATION – CATEGORY 1

EYE IRRITATION 2A: SERIOUS EYE DAMAGE/EYE IRRITATION – CATEGORY 2A

SENSITIZATION - RESPIRATORY 1: RESPIRATORY SENSITISATION – CATEGORY 1

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) 3: SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) – CATEGORY 3

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