

# CROSSTEX EFFERZYME® EFFERVESCENT CLEANING TABLETS

ITEM CODE: JET

## MATERIAL SAFETY DATA SHEET

### IDENTIFICATION:

Manufactured for: Crosstex International  
Address: 10 Ranick Rd, Hauppauge, NY 11788  
Telephone: 631-582-6777  
Date: May 22, 2006

### COMPOSITION/DATA:

#### Dangerous Components:

Subtilisin	Xn;R 37/38-41-42	10-25%
497-19-8 Sodium Carbonate	Xi;R 36	10-25%

### HAZARDS IDENTIFICATION:

Description: Xn Harmful

Information pertaining to particular dangers for man and environment.

The product has to be labeled due to the calculation procedure of the "General Classification guideline preparations of the EU" in the latest valid version.

R37/38 Irritating to respiratory system & skin

R41 Risk of serious damage to eyes

R42 May cause sensitization by inhalation

#### Classification System

The classification was made according to the latest editions of the EU-lists and expanded upon from company & literature data.

#### NFPA Ratings for USA (Scale 0-4):

Health = 2      Fire = 0      Reactivity = 0

#### HMIS-Ratings (Scale 0-4):

Health = 2      Fire = 0      Reactivity = 0

#### FIRST AID MEASURES:

**After skin contact:** Immediately wash with water & soap & rinse thoroughly.

**After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

**After swallowing:** Induce vomiting & seek advice of physician.

#### FIRE FIGHTING MEASURES:

**Suitable extinguishing agents:** Void

**Special hazards caused by the material, its products of combustion or resulting gases:** Formation of toxic gases is possible during heating or in the case of fire.

**Protective equipment:** No special measures required.

#### ACCIDENTAL RELEASE MEASURES:

**Person-related safety precautions:** Not required

**Measures for environmental protection:** No special measures required.

**Additional information:** No dangerous substances are released/

#### HANDLING & STORAGE:

##### Handling:

**Information for safe handling:** Keep receptacles tightly sealed.

Ensure good ventilation/exhaust at the workplace. Prevent formation of dust.

##### Information about protection against explosions & fires:

No special measures required.

##### Storage:

**Requirements to be met by storerooms & receptacles:** No special requirements.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** None

#### EXPOSURE CONTROL & PERSONAL PROTECTION:

**Additional information about design of technical systems:** No further data; see item above.

**Components with limit values that require monitoring at the workplace:**

Subtilisin  
TLV ( ) C 0.0006 mg/m<sup>3</sup>

(m)

25322-68-3 Polyethlengicol 400  
TLV ( ) (average molecular wt 200-600)

**Additional Information:** The lists that were valid during the creation were used as basis.

#### Personal protective equipment: General protective & hygienic measures:

Keep away from foodstuffs, beverages & feed. Immediately remove all soiled & contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the skin. Avoid contact with the eyes and skin.

**Breathing Equipment:** Filter P1. Suitable respiratory protective device recommended.

**Protection of hands:** The glove material has to be impermeable and resistant to the product/the substance/the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

**Material of gloves:** The selection of the suitable gloves does not only depend on the material, but also on further marks of quality & varies from manufacturer to manufacturer.

**Penetration time of glove material:** The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**For the permanent contact in work areas without heightened risk or injury (ie laboratory) gloves made of the following material are suitable:** Butyl rubber (BR), Fluorocarbon rubber (Viton), Nitrile rubber (NBR), Natural rubber (NR), Chloroprene rubber (CR).

**For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:** PVC or PE gloves.

**Eye protection:** Protective goggles are recommended.

**Body protection:** Light weight protective clothing.

#### PHYSICAL & CHEMICAL PROPERTIES:

##### General Information:

**Form:** Solid      **Color:** Whitish

**Odor:** Nearly odorless

##### Change in condition:

**Melting point/Melting range:** Undetermined

**Boiling point/Boiling range:** Undetermined

**Flash point:** Not applicable

**Auto igniting:** Product is not self igniting

**Danger of explosion:** Product does not present an explosion hazard.

**Density:** Not determined

**Solubility in/Miscibility with:** Water: Soluble

#### STABILITY & REACTIVITY:

**Dangerous reactions:** No dangerous reactions known

**Dangerous products of decomposition:** None

#### TOXICOLOGICAL INFORMATION:

**Acute toxicity:** LD/IC50 values that are relevant for classification:

**Subtilisin:** Oral/LD50/2000 mg/kg (rat)

**Primary irritant effect:**

**On the skin:** Irritant to skin & mucous membranes.

**On the eye:** Strong irritant with the danger of severe eye injury.

**Sterilization:** Sensitization possible through inhalation.

**Additional toxicological information:** Harmful, irritant. The product shows the following dangers according to the calculation method of General EU Classification Guidelines for Preparations as issued in the latest version.

**ECOLOGICAL INFORMATION:**

**General notes:** Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**DISPOSAL CONSIDERATIONS:**

**Product Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

**Uncleaned packaging Recommendation:** Packaging can be reused or recycled after cleaning.

**Recommended cleansing agent:** Water, if necessary with cleaning agents

**DOT Regulations:**

**Hazard Class:**

Land transport ADR/RID (cross-border), ADR/RID Class

Maritime transport IMDG: IMDG Class

Marine Pollutant: No

Air transport ICAO-TI & IATA-DGR: ICAO/IATA Class

**REGULATIONS:**

**Sara Section 335 (extremely hazardous substances):** None of the ingredients is listed.

**SARA Section 313 (specific toxic chemical listings):** None of the ingredients is listed.

**TSCA (Toxic Substances Control Act):** 144-55-8 sodium hydrogen carbonate.

	Subtilisin
497-19-8	sodium carbonate
77-92-9	citric acid
25322-68-3	Polyethylenglycol 400
532-32-1	sodium benzoate
151-21-3	sodium dodecyl sulphate

**Prop 65 – Chemicals known to cause cancer:** None of the ingredients is listed.

**Prop 65 – Chemicals known to cause reproductive toxicity:** None of the ingredients is listed.

**Carcinogenity categories:**

**EPA (Environmental Protection Agency):** None of the ingredients is listed.

**IARC (International Agency for Research on Cancer):** None of the ingredients is listed.

**NTP (National Toxicology Program):** None of the ingredients is listed.

**TLV (Threshold Limit Value established by ACGIH):** None of the ingredients is listed.

**NIOSH-Ca (National Institute for Occupational Safety & Health):** None of the ingredients is listed.

**OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients is listed.

**Markings according to EU guidelines:** The product has been classified and marked in accordance with EU Directives/Ordinance on Hazardous Materials.

**Code letter & hazard designation of product:** Xn Harmful

**Hazard-determining components of labeling:** Subtilisin

**Risk phrases:** 37/38 Irritating to respiratory system & skin, 41 Risk of serious damage to eyes, 42 May cause sensitization by inhalation.

**Safety phrases:** 22 Do not breathe dust. 26 In case of contact with eyes, rinse immediately with plenty of water & seek medical advice. 36/37/39 Wear suitable protective clothing, gloves & eye/face protection. 45 In case of accident or if you feel unwell, seek medical advice immediately.

**National regulations:**

**Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

**OTHER INFORMATION:**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant R-phrases:** 36 Irritating to eyes. 37/38 Irritating to respiratory system and skin. 41 Risk of serious damage to eyes. 42 May cause sensitization in inhalation.

**SPECIAL INFORMATION**

**24 HR EMERGENCY TELEPHONE NUMBER: \*INFOTRAC = 1-800-535-5053** Note: Crosstex Int. has compiled this data based on the research & input of qualified experts in the field of microbiology, chemistry and quality assurance. The data are not to be taken as a warranty or representation for which Crosstex Int. assumes legal responsibility. They are offered only for your consideration and verification.