

MATERIAL SAFETY DATA SHEET

SJ Enterprises

FILE NO: 010

Copyright, 2009, SJ Enterprises. All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing SJ Enterprises products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from SJ Enterprises, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

NAME OF PRODUCT: Zyme

MSDS DATE:14/8/09

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Zyme

SYNONYMS: N/A

PRODUCT CODES: 010

MANUFACTURER: SJ ENTERPRISES PTY LTD

DIVISION: N/A

ADDRESS: FACTORY 3&4 / 63 LANGFORD STREET, POORAKA, SOUTH AUSTRALIA. 5095

EMERGENCY PHONE: +61 8 8359 8732

CHEMTREC PHONE: N/A

OTHER CALLS: +61 0 430 217 040

FAX PHONE: +61 8 8359 8732

CHEMICAL NAME: N/A

CHEMICAL FAMILY: N/A

CHEMICAL FORMULA: N/A

PRODUCT USE: Hydroponic Nutrient

PREPARED BY:

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT: Amylase

CAS NO.

9000-90-2

% WT

% VOL

SARA 313 REPORTABL

ppm
0.069 x 10⁶

mg/m3
0.39 x 10⁶

SHA PEL-TWA: N/A

OSHA PEL STEL : N/A

OSHA PEL CEILING: N/A

ACGIH TLV-TWA: N/A

ACGIH TLV STEL: N/A

ACGIH TLV CEILING: N/A

MATERIAL SAFETY DATA SHEET

SJ Enterprises

FILE NO: 010

Copyright, 2009, SJ Enterprises. All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing SJ Enterprises products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from SJ Enterprises, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

NAME OF PRODUCT: Zyme

MSDS DATE:14/8/09

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This material is not considered hazardous.

ROUTES OF ENTRY:

EYES: No information found

SKIN: No information found

INGESTION: No information found

INHALATION: No information found.

ACUTE HEALTH HAZARDS: No Information found

CHRONIC HEALTH HAZARDS: No known chronic hazards. This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200) if used properly.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: No Data found

CARCINOGENICITY

OSHA: N/A

ACGIH: N/A

NTP: N/A

IARC: N/A

OTHER: N/A

SECTION 4: FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

SKIN: Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.

INGESTION: Call Poison Control immediately. Rinse mouth with cold water. Give victim 1-2 cups of water or milk to drink.

Induce vomiting immediately.

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Refer to MSDS

MATERIAL SAFETY DATA SHEET

SJ Enterprises

FILE NO: 010

Copyright, 2009, SJ Enterprises. All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing SJ Enterprises products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from SJ Enterprises, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

NAME OF PRODUCT: Zyme

MSDS DATE:14/8/09

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: N/A
(% BY VOLUME) LOWER: N/A

FLASH POINT: N/A

F:

C:

METHOD USED: N/A

AUTOIGNITION TEMPERATURE: N/A

F:

C:

NFPA HAZARD CLASSIFICATION

HEALTH: N/A

FLAMMABILITY: N/A

REACTIVITY: N/A

OTHER: N/A

HMIS HAZARD CLASSIFICATION

HEALTH: N/A

FLAMMABILITY: N/A

REACTIVITY: N/A

PROTECTION:N/A

EXTINGUISHING MEDIA: Use any means suitable for extinguishing surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Not combustible

HAZARDOUS DECOMPOSITION PRODUCTS: No data found

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

MATERIAL SAFETY DATA SHEET

SJ Enterprises

FILE NO: 010

Copyright, 2009, SJ Enterprises. All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing SJ Enterprises products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from SJ Enterprises, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

NAME OF PRODUCT: Zyme

MSDS DATE:14/8/09

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: N/A

VENTILATION : A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

RESPIRATORY PROTECTION: For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

EYE PROTECTION: Safety glasses. Maintain eye wash fountain and quick-drench facilities in work area.

SKIN PROTECTION: Wear protective gloves and clean body-covering clothing.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N/A

WORK HYGIENIC PRACTICES: Please refer to State And Federal regulations

EXPOSURE GUIDELINES: No exposure guidelines have been set for this product.

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear

ODOR: Odorless

PHYSICAL STATE: Liquid

pH AS SUPPLIED: 5.9 pH

pH (Other):

BOILING POINT:

F: 212

C: 100

MELTING POINT:

F: N/A

C: N/A

FREEZING POINT:

MATERIAL SAFETY DATA SHEET

SJ Enterprises

FILE NO: 010

Copyright, 2009, SJ Enterprises. All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing SJ Enterprises products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from SJ Enterprises, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

NAME OF PRODUCT: Zyme

MSDS DATE:14/8/09

F: 32

C: 0

VAPOR PRESSURE (mmHg):

@

F: N/A

C:

VAPOR DENSITY (AIR = 1): N/A

@

F:

C:

SPECIFIC GRAVITY (H2O = 1): 6.94

@ room temperature

F: 77

C: 25

EVAPORATION RATE:

BASIS (=1):

SOLUBILITY IN WATER:

PERCENT SOLIDS BY WEIGHT:

PERCENT VOLATILE:

BY WT/ BY VOL @

F:

C:

VOLATILE ORGANIC COMPOUNDS (VOC):

WITH WATER: LBS/GAL

WITHOUT WATER: LBS/GAL

MOLECULAR WEIGHT: 136.9

VISCOSITY:

@ Room temperature

F:77

C:25

MATERIAL SAFETY DATA SHEET

SJ Enterprises

FILE NO: 010

Copyright, 2009, SJ Enterprises. All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing SJ Enterprises products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from SJ Enterprises, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

NAME OF PRODUCT: Zyme

MSDS DATE:14/8/09

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under ordinary conditions of use and storage

CONDITIONS TO AVOID (STABILITY): (Residual Only)Exposure to heat may result in build-up of dangerous pressures.

INCOMPATIBILITY (MATERIAL TO AVOID):

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

HAZARDOUS POLYMERIZATION: No hazardous polymerization data found.

CONDITIONS TO AVOID (POLYMERIZATION): N/A

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Amylase: LD50 [oral, rat]; N/A; LC50 [rat]; N/A; LD50 Dermal [rabbit]; N/A

Material has not been found to be a carcinogen nor produce genetic, reproductive, or developmental effects.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:

Ecotoxicity: No Data Found

Environmental Fate: No Data found

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

RCRA HAZARD CLASS: N/A

SECTION 13 NOTES: Do not use this container for any other purpose. Triple rinse containers, then offer the container for recycling, reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with your local government regulations.

MATERIAL SAFETY DATA SHEET

SJ Enterprises

FILE NO: 010

Copyright, 2009, SJ Enterprises. All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing SJ Enterprises products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from SJ Enterprises, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

NAME OF PRODUCT: Zyme

MSDS DATE:14/8/09

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION Not Regulated

PROPER SHIPPING NAME:

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

LABEL STATEMENT:

WATER TRANSPORTATION Not Regulated

PROPER SHIPPING NAME:

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

LABEL STATEMENTS:

AIR TRANSPORTATION Not Regulated

PROPER SHIPPING NAME:

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

LABEL STATEMENTS:

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): No Data Found

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): No Data found

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): No Data Found

311/312 HAZARD CATEGORIES: No Data found

313 REPORTABLE INGREDIENTS: No Data found

STATE REGULATIONS: No Data found

INTERNATIONAL REGULATIONS: No Data found

MATERIAL SAFETY DATA SHEET

SJ Enterprises

FILE NO: 010

Copyright, 2009, SJ Enterprises. All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing SJ Enterprises products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from SJ Enterprises, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

NAME OF PRODUCT: Zyme

MSDS DATE:14/8/09

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION: N/A

DISCLAIMER:

SJ Enterprises provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

SJ ENTERPRISES MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, SJ ENTERPRISES WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.
