

MATERIAL SAFETY DATA SHEET

DIVISION: PRODUCTION

ISSUE DATE: 29th June 2012

PRODUCT IDENTIFICATION

Name: *Erwinia* L-asparaginase (Bulk product)
Batch No: Various N.S.C No: 106977
E.C. No: 3.5.1.1 Volume: Various

PHYSICAL & CHEMICAL PROPERTIES

Appearance: Clear, colourless slightly viscous liquid
Solid/liquid/gas: Liquid
Aqueous pH: 6.0 to 7.5
Additional components present: Glucose, 2.25 to 2.75 mg/mL
Sodium chloride, 0.2 to 0.3 mg/mL

HAZARD IDENTIFICATION

Main Hazard: Protein: May cause immune response by inhalation and skin contact
Health Effects - Eyes: No evidence of ill effects
Skin: No evidence of skin absorption
Ingestion: No evidence of ill effects
Inhalation: No evidence of ill effects

HANDLING & STORAGE

Handling: Special handling precautions are not required but good laboratory practice is advised: Wear gloves and safety glasses
Storage: -20°C +/- 6°C

FIRST AID MEASURES

Eyes: Irrigate thoroughly with water for at least 15 minutes, ensure adequate flushing by separating eye lids
Skin: Wash affected area with copious amounts of water and remove contaminated clothing and shoes
Ingestion: Wash out mouth with water provided person is conscious
Inhalation: Remove to fresh air

In all cases contact a physician.

FIRE FIGHTING MEASURES

Extinguisher medium: Any
Unsuitable extinguishing medium: None
Protective equipment for fire fighting: Not applicable

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ACCIDENTAL RELEASE

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|----------------------------|---|
| Personal precautions: | Exercise good laboratory practice: Wear gloves and safety glasses |
| Environmental precautions: | Not applicable |
| Spillage: | Flush area with copious amounts of water and mop up with absorbent material |

STABILITY & REACTIVITY

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|-----------------------------------|------------|
| Stable? | Yes |
| Conditions to avoid: | None |
| Materials to avoid: | None |
| Hazardous decomposition products: | None known |

EXPOSURE CONTROLS/PERSONAL PROTECTION

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| Engineering control measures: | None |
| Respiratory protection: | None |
| Hand protection: | Rubber gloves |
| Eye protection: | Safety glasses |

TOXICOLOGICAL INFORMATION (Health effects)

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|-------------------------|----------------|
| Routes of exposure: | Not applicable |
| Acute effects: | Not applicable |
| Chronic effects: | Not applicable |
| Special considerations: | Not applicable |

ECOLOGICAL INFORMATION

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|----------------------------|----------------|
| Mobility: | Not applicable |
| Persistence/degradability: | Not applicable |
| Bioaccumulation: | Not applicable |
| Ecotoxicity: | Not applicable |

DISPOSAL CONSIDERATIONS

Not applicable

Note: The UK Environmental Protection Act 1990 applies

TRANSPORT INFORMATION

Special precautions: None required
Additional information arising from the Carriage of Dangerous Goods by Road & Rail
(Classification, Packaging, and Labelling) Regulations:
UN no: Not applicable
Packing group: Not applicable
ADR/RID: Not applicable
IMO -IMG code: Not applicable

REGULATORY INFORMATION

Labelling information: Not applicable

IMPORTANT! REGULATORY CONTROL

This ~~organism~~/ material, ~~is~~/ is not, (delete as appropriate) covered by UK & international legislation and may require as indicated:

Yes/No Import Licence (DEFRA IAPO)
Yes/No Holding Licence (DEFRA SAPO)
Yes/No Permission to transfer (DEFRA)
Yes/No Permission to receive, transfer and hold (HSE)
Yes/No Export licence (BERR)
Other (Please state)

I am confirm that all necessary licences required for the consignment of this material are in place and the recipient is able to safely handle the material.

Print name: not applicable **Sign:** **Date:**

OTHER INFORMATION

It is recommended that persons using this substance or material are fully acquainted with the hazards/safety in use procedures before handling.
This data sheet does not constitute an assessment as required by the Control of Substances Hazardous to Health Regulations 1999.
The information contained in this publication is given in good faith and is accurate to the best of our knowledge and belief.

COMPLETED BY: **CHECKED BY DIVISIONAL SAFETY ADVISOR:**
NAME: **NAME:**

SIGNATURE: **SIGNATURE:**

DATE: **DATE:**

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