

# **Buffer for Glucose and Fructose Enzymatic Analysis**

# **Vintessential Laboratories**

Chemwatch Hazard Alert Code: 0

Issue Date: 11/01/2019

Print Date: 10/12/2022

L.GHS.AUS.EN.E

Chemwatch: 29-1116 Version No: 3.1 Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

### SECTION 1 Identification of the substance / mixture and of the company / undertaking

#### Product Identifier

| Troduct identifier            |  |  |  |
|-------------------------------|--|--|--|
| Product name                  | Buffer for Glucose and Fructose Enzymatic Analysis |  |  |
| Chemical Name                 | Not Applicable                                     |  |  |
| Synonyms                      | Not Available                                      |  |  |
| Chemical formula              | Not Applicable                                     |  |  |
| Other means of identification | Not Available                                      |  |  |

### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses General laboratory reagent.

#### Details of the manufacturer or supplier of the safety data sheet

| Registered company name | /intessential Laboratories                   |  |  |
|-------------------------|--|--|--|
| Address                 | 32 BRASSER AVENUE DROMANA VIC 3936 Australia |  |  |
| Telephone               | +61 3 5987 2242                              |  |  |
| Fax                     | +61 3 5987 3303                              |  |  |
| Website                 | Not Available                                |  |  |
| Email                   | Not Available                                |  |  |

#### **Emergency telephone number**

| Association / Organisation        | Poisons Information Centre |  |
|-----------------------------------|----------------------------|--|
| Emergency telephone numbers       | 13 11 26                   |  |
| Other emergency telephone numbers | Not Available              |  |

#### **SECTION 2 Hazards identification**

#### Classification of the substance or mixture

| Oldssindation of the Substation of Illixture |                    | . or mixture   |
|--|--------------------|----------------|
|  | Poisons Schedule   | Not Applicable |
|  | Classification [1] | Not Applicable |

| Label elements      |                |  |
|---------------------|----------------|--|
| Hazard pictogram(s) | Not Applicable |  |
|                     |                |  |
| Signal word         | Not Applicable |  |

### Hazard statement(s)

Not Applicable

### Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response

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Not Applicable

### Precautionary statement(s) Storage

Not Applicable

#### Precautionary statement(s) Disposal

Not Applicable

### **SECTION 3 Composition / information on ingredients**

#### Substances

See section below for composition of Mixtures

#### **Mixtures**

| CAS No   | %[weight]   | Name                                       |  |
|--|---|--|--|
| Not Available 100 ingredients determined not to be hazardous |   | ingredients determined not to be hazardous |  |
| Legend:  | Legend: 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available |  |  |

#### **SECTION 4 First aid measures**

#### Description of first aid measures

| Eye Contact  | If this product comes in contact with eyes:  • Wash out immediately with water.  • If irritation continues, seek medical attention.  • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. |  |  |  |
|--------------|--|--|--|--|
| Skin Contact | If skin contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.                          |  |  |  |
| Inhalation   | If fumes, aerosols or combustion products are inhaled remove from contaminated area.     Other measures are usually unnecessary.   |  |  |  |
| Ingestion    | <ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>  |  |  |  |

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### **SECTION 5 Firefighting measures**

### **Extinguishing media**

- Water spray or fog.
- Foam.
- Dry chemical powder.BCF (where regulations permit).
- Carbon dioxide.

### Special hazards arising from the substrate or mixture

| Fire Incompatibility    | None known.  |  |  |
|-------------------------|--|--|--|
| Advice for firefighters |  |  |  |
| Fire Fighting           | <ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>Avoid spraying water onto liquid pools.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> </ul>  |  |  |
| Fire/Explosion Hazard   | <ul> <li>▶ The material is not readily combustible under normal conditions.</li> <li>▶ However, it will break down under fire conditions and the organic component may burn.</li> <li>▶ Not considered to be a significant fire risk.</li> <li>▶ Heat may cause expansion or decomposition with violent rupture of containers.</li> <li>▶ Decomposes on heating and may produce toxic fumes of carbon monoxide (CO).</li> <li>▶ May emit acrid smoke.</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>hydrogen chloride</li> <li>phosgene</li> <li>nitrogen oxides (NOx)</li> <li>phosphorus oxides (POx)</li> <li>other pyrolysis products typical of burning organic material.</li> <li>May emit poisonous fumes.</li> <li>May emit corrosive fumes.</li> </ul> |  |  |
| HAZCHEM                 | Not Applicable   |  |  |

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### **SECTION 6 Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures

See section 8

#### **Environmental precautions**

See section 12

#### Methods and material for containment and cleaning up

| Methods and material for containment and cleaning up |  |  |
|--|--|--|
| Minor Spills   | <ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>   |  |
| Major Spills   | Minor hazard.  Clear area of personnel.  Alert Fire Brigade and tell them location and nature of hazard.  Control personal contact with the substance, by using protective equipment as required.  Prevent spillage from entering drains or water ways.  Contain spill with sand, earth or vermiculite.  Collect recoverable product into labelled containers for recycling.  Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal.  Wash area and prevent runoff into drains or waterways.  If contamination of drains or waterways occurs, advise emergency services. |  |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

### **SECTION 7 Handling and storage**

| Precautions for safe handling |   |
|-------------------------------|---|
| Safe handling                 | DO NOT allow clothing wet with material to stay in contact with skin Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. Avoid smoking, naked lights or ignition sources. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions. |
| Other information             | Store in original containers.     Keep containers securely sealed.     No smoking, naked lights or ignition sources.     Store in a cool, dry, well-ventilated area.     Store away from incompatible materials and foodstuff containers.     Protect containers against physical damage and check regularly for leaks.     Observe manufacturer's storage and handling recommendations contained within this SDS.  |

### Conditions for safe storage, including any incompatibilities

| Suitable container  Glass container is suitable for laboratory quantities  Packaging as recommended by manufacturer. |  |  |
|--|--|--|
| Storage incompatibility  | ► Avoid reaction with oxidising agents |  |

### SECTION 8 Exposure controls / personal protection

### **Control parameters**

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Not Available

### **Emergency Limits**

| Ingredient  | TEEL-1 TEEL-2 |               | TEEL-3        |               |
|---|---------------|---------------|---------------|---------------|
| Buffer for Glucose and Fructose<br>Enzymatic Analysis | Not Available | Not Available |               | Not Available |
| Ingredient  | Original IDLH |               | Revised IDLH  |               |
| Buffer for Glucose and Fructose<br>Enzymatic Analysis | Not Available |               | Not Available |               |

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#### **Exposure controls**

| Appropriate engineering | Use in a well-ventilated area   |
|-------------------------|---|
| controls                |   |
| Personal protection     |   |
| Eye and face protection | <ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]</li> </ul> |
| Skin protection         | See Hand protection below   |
| Hands/feet protection   | Wear general protective gloves, eg. light weight rubber gloves.  NOTE:  The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.  Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.   |
| Body protection         | See Other protection below  |
| Other protection        | <ul> <li>Overalls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>  |

#### Respiratory protection

Type B-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

| Required minimum protection factor | Maximum gas/vapour concentration present in air p.p.m. (by volume) | Half-face Respirator | Full-Face Respirator |
|------------------------------------|--|----------------------|----------------------|
| up to 10                           | 1000   | B-AUS / Class1 P2    | -                    |
| up to 50                           | 1000   | -                    | B-AUS / Class 1 P2   |
| up to 50                           | 5000   | Airline *            | -                    |
| up to 100                          | 5000   | -                    | B-2 P2               |
| up to 100                          | 10000  | -                    | B-3 P2               |
| 100+                               |  |                      | Airline**            |

<sup>\* -</sup> Continuous Flow \*\* - Continuous-flow or positive pressure demand

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- ► Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

#### **SECTION 9 Physical and chemical properties**

#### Information on basic physical and chemical properties

|  | r-y                       |   |                |  |
|--|---------------------------|---|----------------|--|
| Appearance                                   | Liquid; mixes with water. |   |                |  |
| Physical state                               | Liquid                    | Relative density (Water = 1)            | Not Available  |  |
| Odour  | Not Available             | Partition coefficient n-octanol / water | Not Available  |  |
| Odour threshold                              | Not Available             | Auto-ignition temperature (°C)          | Not Available  |  |
| pH (as supplied)                             | Not Available             | Decomposition temperature (°C)          | Not Available  |  |
| Melting point / freezing point (°C)          | Not Available             | Viscosity (cSt)                         | Not Available  |  |
| Initial boiling point and boiling range (°C) | Not Available             | Molecular weight (g/mol)                | Not Applicable |  |
| Flash point (°C)                             | Not Available             | Taste                                   | Not Available  |  |
| Evaporation rate                             | Not Available             | Explosive properties                    | Not Available  |  |
| Flammability                                 | Not Available             | Oxidising properties                    | Not Available  |  |

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| Upper Explosive Limit (%) | Not Available | Surface Tension (dyn/cm or mN/m)     | Not Available |
|---------------------------|---------------|--------------------------------------|---------------|
| Lower Explosive Limit (%) | Not Available | Volatile Component (%vol)            | Not Available |
| Vapour pressure (kPa)     | Not Available | Gas group                            | Not Available |
| Solubility in water       | Miscible      | pH as a solution (Not<br>Available%) | Not Available |
| Vapour density (Air = 1)  | Not Available | VOC g/L                              | Not Available |

### **SECTION 10 Stability and reactivity**

| Reactivity                         | See section 7  |
|------------------------------------|--|
| Chemical stability                 | <ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul> |
| Possibility of hazardous reactions | See section 7  |
| Conditions to avoid                | See section 7  |
| Incompatible materials             | See section 7  |
| Hazardous decomposition products   | See section 5  |

### **SECTION 11 Toxicological information**

### Information on toxicological effects

| Buffer for Glucose and | TOXICITY   | IRRITATION |  |
|------------------------|--|------------|--|
| Chronic                | Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.  There exists limited evidence that shows that skin contact with the material is capable either of inducing a sensitisation reaction in a significant number of individuals, and/or of producing positive response in experimental animals.  Principal routes of exposure are by accidental skin and eye contact and by inhalation of vapours especially at higher temperatures.  Sensitisation may result in allergic dermatitis responses including rash, itching, hives or swelling of extremities.   |            |  |
| Еуе                    | Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).   |            |  |
| Skin Contact           | The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.  Open cuts, abraded or irritated skin should not be exposed to this material  Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects.  Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.   |            |  |
| Ingestion              | The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern. |            |  |
| Inhaled                | The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.  |            |  |
|                        |  |            |  |

| Buffer for Glucose and      | TOXICITY   | IRRITATION    |  |
|-----------------------------|--|---------------|--|
| Fructose Enzymatic Analysis | Not Available  | Not Available |  |
| Legend:                     | Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances |               |  |

| Buffer for Glucose and<br>Fructose Enzymatic Analysis | No significant acute toxicological data identified in literature search. |                          |   |
|---|--|--------------------------|---|
| Acute Toxicity  | ×  | Carcinogenicity          | × |
| Skin Irritation/Corrosion                             | ×  | Reproductivity           | × |
| Serious Eye Damage/Irritation                         | ×  | STOT - Single Exposure   | × |
| Respiratory or Skin sensitisation                     | ×  | STOT - Repeated Exposure | × |
| Mutagenicity  | ×  | Aspiration Hazard        | × |

Legend:

X − Data either not available or does not fill the criteria for classification
 ✓ − Data available to make classification

## **SECTION 12 Ecological information**

| Tο | χi | ci | tν |
|----|----|----|----|

| Buffer for Glucose and      | Endpoint | Test Duration (hr) | Species | Value Source |
|-----------------------------|----------|--------------------|---------|--------------|
| Fructose Enzymatic Analysis |          |                    |         |              |

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Not Available

Available

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA,

Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan)

- Bioconcentration Data 8. Vendor Data

DO NOT discharge into sewer or waterways.

#### Persistence and degradability

| Ingredient | Persistence: Water/Soil               | Persistence: Air                      |
|------------|---------------------------------------|---------------------------------------|
|            | No Data available for all ingredients | No Data available for all ingredients |

#### **Bioaccumulative potential**

| Ingredient | Bioaccumulation                       |
|------------|---------------------------------------|
|            | No Data available for all ingredients |

#### Mobility in soil

| Ingredient | Mobility                              |  |
|------------|---------------------------------------|--|
|            | No Data available for all ingredients |  |

### **SECTION 13 Disposal considerations**

#### Waste treatment methods

Product / Packaging disposal

- ▶ Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Authority for disposal.
- Bury or incinerate residue at an approved site.
- Recycle containers if possible, or dispose of in an authorised landfill.

#### **SECTION 14 Transport information**

#### Labels Required

| Marine Pollutant | NO             |
|------------------|----------------|
| HAZCHEM          | Not Applicable |

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

| Product name | Group |
|--------------|-------|
|              |       |

# Transport in bulk in accordance with the ICG Code

| Product name | Ship Type |
|--------------|-----------|
|--------------|-----------|

### **SECTION 15 Regulatory information**

### Safety, health and environmental regulations / legislation specific for the substance or mixture

### **National Inventory Status**

| rational involtory otatao                          |               |
|--|---------------|
| National Inventory                                 | Status        |
| Australia - AIIC / Australia<br>Non-Industrial Use | Not Available |
| Canada - DSL                                       | Not Available |
| Canada - NDSL                                      | Not Available |
| China - IECSC                                      | Not Available |
| Europe - EINEC / ELINCS / NLP                      | Not Available |
| Japan - ENCS                                       | Not Available |
| Korea - KECI                                       | Not Available |
| New Zealand - NZIoC                                | Not Available |
| Philippines - PICCS                                | Not Available |
| USA - TSCA   | Not Available |
| Taiwan - TCSI                                      | Not Available |
| Mexico - INSQ                                      | Not Available |

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| National Inventory | Status  |  |  |
|--------------------|---|--|--|
| Vietnam - NCI      | Not Available   |  |  |
| Russia - FBEPH     | Not Available   |  |  |
| Legend:            | Yes = All CAS declared ingredients are on the inventory  No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration. |  |  |

#### **SECTION 16 Other information**

| Revision Date | 11/01/2019 |
|---------------|------------|
| Initial Date  | 11/14/2011 |

#### **SDS Version Summary**

| Version | Date of Update | Sections Updated   |
|---------|----------------|--|
| 3.1     | 11/01/2019     | One-off system update. NOTE: This may or may not change the GHS classification |

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

ES: Exposure Standard

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

AIIC: Australian Inventory of Industrial Chemicals

DSL: Domestic Substances List

NDSL: Non-Domestic Substances List

IECSC: Inventory of Existing Chemical Substance in China

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

NLP: No-Longer Polymers

ENCS: Existing and New Chemical Substances Inventory

KECI: Korea Existing Chemicals Inventory

NZIoC: New Zealand Inventory of Chemicals

PICCS: Philippine Inventory of Chemicals and Chemical Substances

TSCA: Toxic Substances Control Act

TCSI: Taiwan Chemical Substance Inventory

INSQ: Inventario Nacional de Sustancias Químicas

NCI: National Chemical Inventory

FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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