

## **Vintessential Laboratories**

Chemwatch: **4733-53** Version No: **4.1** Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements Chemwatch Hazard Alert Code: 2

Issue Date: **12/10/2021** Print Date: **10/12/2022** L.GHS.AUS.EN.E

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

Product Identifier	
Product name	Glucose & Fructose Analysis Kit Vial 2 Coenzymes
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

ils of the manufacturer or	supplier of the safety data sheet	
Registered company name	Vintessential 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	
rgency telephone number		
Association / Organisation	Poisons Information Centre	

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

## **SECTION 2 Hazards identification**

Poisons Schedule	Not Applicable
Classification <sup>[1]</sup>	Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Laber elements	
Hazard pictogram(s)	
Signal word	Warning

H315 Ca	Causes skin irritation.
<b>H319</b> Ca	Causes serious eye irritation.
H335 M	May cause respiratory irritation.

### Precautionary statement(s) Prevention

P271	Use only outdoors or in a well-ventilated area.	
P261	Avoid breathing dust/fumes.	
P280	Wear protective gloves, protective clothing, eye protection and face protection.	
P264	Wash all exposed external body areas thoroughly after handling.	

#### Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P312	Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P302+P352	IF ON SKIN: Wash with plenty of water.	
P304+P340	INHALED: Remove person to fresh air and keep comfortable for breathing.	
P332+P313	If skin irritation occurs: Get medical advice/attention.	
P362+P364	Take off contaminated clothing and wash it before reuse.	

### Precautionary statement(s) Storage

P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

#### Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

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

### Substances

See section below for composition of Mixtures

#### Mixtures

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

## **SECTION 4 First aid measures**

#### Description of first aid measures

Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	If skin or hair contact occurs: <ul> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	<ul> <li>If dust is inhaled, remove from contaminated area.</li> <li>Encourage patient to blow nose to ensure clear passage of breathing.</li> <li>If irritation or discomfort persists seek medical attention.</li> </ul>
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> </ul>

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

Treat symptomatically.

## **SECTION 5 Firefighting measures**

## Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

## Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
vice for firefighters	
vice for menginers	
	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> </ul>
	Prevent, by any means available, spillage from entering drains or water courses.
Fire Fighting	Use fire fighting procedures suitable for surrounding area.
r në r ighting	DO NOT approach containers suspected to be hot.
	<ul> <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>
	<ul> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>
	<ul> <li>Solid which exhibits difficult combustion or is difficult to ignite.</li> <li>Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and</li> </ul>
	any source of ignition, i.e. flame or spark, will cause fire or explosion.
	<ul> <li>Dust clouds generated by the fine grinding of the solid are a particular hazard; accumulations of fine dust (420 micron or less) may burn rapidly and fiercely if ignited; once initiated larger particles up to 1400 microns diameter will contribute to the propagation of an explosion.</li> <li>A dust explosion may release large quantities of gaseous products; this in turn creates a subsequent pressure rise of explosive force capab of damaging plant and buildings and injuring people.</li> </ul>
	Usually the initial or primary explosion takes place in a confined space such as plant or machinery, and can be of sufficient force to damage or rupture the plant. If the shock wave from the primary explosion enters the surrounding area, it will disturb any settled dust layers, forming second dust cloud, and often initiate a much larger secondary explosion. All large scale explosions have resulted from chain reactions of thi type.
Fire/Explosion Hazard	Dry dust can also be charged electrostatically by turbulence, pneumatic transport, pouring, in exhaust ducts and during transport.
	<ul> <li>Build-up of electrostatic charge may be prevented by bonding and grounding.</li> <li>Powder handling equipment such as dust collectors, dryers and mills may require additional protection measures such as explosion venting</li> </ul>
	<ul> <li>All movable parts coming in contact with this material should have a speed of less than 1-metre/sec.</li> </ul>
	Combustion products include:
	carbon monoxide (CO)
	carbon dioxide (CO2)
	nitrogen oxides (NOx) phosphorus oxides (POx)
	other pyrolysis products typical of burning organic material.
	May emit poisonous fumes.

## 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

Minor Spills	<ul> <li>Remove all ignition sources.</li> <li>Clean up all spills immediately.</li> <li>Avoid contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Use dry clean up procedures and avoid generating dust.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>
Major Spills	Generally not applicable.

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

# **SECTION 7 Handling and storage**

Safe handling	<ul> <li>Limit all unnecessary personal contact.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>When handling DO NOT eat, drink or smoke.</li> <li>Always wash hands with soap and water after handling.</li> <li>Avoid physical damage to containers.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>

### Conditions for safe storage, including any incompatibilities

Suitable container	Vial.  ► Check that containers are clearly labelled  ► Packaging as recommended by manufacturer.
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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
Glucose & Fructose Analysis Kit Vial 2 Coenzymes	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
Glucose & Fructose Analysis Kit	Not Available		Not Available	

#### MATERIAL DATA

It is the goal of the ACGIH (and other Agencies) to recommend TLVs (or their equivalent) for all substances for which there is evidence of health effects at airborne concentrations encountered in the workplace.

At this time no TLV has been established, even though this material may produce adverse health effects (as evidenced in animal experiments or clinical experience). Airborne concentrations must be maintained as low as is practically possible and occupational exposure must be kept to a minimum.

NOTE: The ACGIH occupational exposure standard for Particles Not Otherwise Specified (P.N.O.S) does NOT apply.

### Exposure controls

	None required when handling small quantities. OTHERWISE: Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. • Local exhaust ventilation is required where solids are handled as powders or crystals; even when particulates are relatively large, a certain proportion will be powdered by mutual friction. • If in spite of local exhaust an adverse concentration of the substance in air could occur, respiratory protection should be considered. Such protection might consist of: (a): particle dust respirators, if necessary, combined with an absorption cartridge; (b): filter respirators with absorption cartridge or canister of the right type; (c): fresh-air hoods or masks. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.			
Appropriate engineering controls	Type of Contaminant:		Air Speed:	
	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)		1-2.5 m/s (200-500 f/min.)	
	grinding, abrasive blasting, tumbling, high speed wheel ger of very high rapid air motion).	2.5-10 m/s (500-2000 f/min.)		
	Within each range the appropriate value depends on:			
	Lower end of the range	Upper end of the range		
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents		
	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity		
	3: Intermittent, low production.	3: High production, heavy use		
	4: Large hood or large air mass in motion	4: Small hood-local control only		
	Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 4-10 m/s (800-2000 f/min) for extraction of crusher dusts generated 2 metres distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.			
Personal protection				
	No special equipment for minor exposure i.e. when handling OTHERWISE:	small quantities.		

Safety glasses with side shields.

Eye and face protection

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]
Skin protection	See Hand protection below
Hands/feet protection	No special equipment needed when handling small quantities. OTHERWISE: Wear chemical protective gloves, e.g. PVC.
Body protection	See Other protection below
Other protection	No special equipment needed when handling small quantities. <b>OTHERWISE:</b> • Overalls. • Barrier cream. • Eyewash unit.

#### **Respiratory protection**

Particulate. (AS/NZS 1716 & 1715, EN 143:2000 & 149:001, ANSI Z88 or national equivalent)

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	P1 Air-line*	-	PAPR-P1 -
up to 50 x ES	Air-line**	P2	PAPR-P2
up to 100 x ES	-	P3	-
		Air-line*	-
100+ x ES	-	Air-line**	PAPR-P3

\* - Negative pressure demand \*\* - Continuous flow

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)

· Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.

• The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).

• Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.

Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
 Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

· Use approved positive flow mask if significant quantities of dust becomes airborne.

· Try to avoid creating dust conditions.

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

#### Information on basic physical and chemical properties

Appearance	White powder; mixes with water.		
Physical state	Divided Solid	Relative density (Water = 1)	Not Available
Physical state			
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Applicable
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Applicable	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Negligible
Vapour pressure (kPa)	Negligible	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (Not Available%)	Not Available
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Available

### SECTION 10 Stability and reactivity

Reactivity	lee 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

Inhaled	Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disabil if excessive concentrations of particulate are inhaled. If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures.			
Ingestion	Accidental ingestion of the material may be exposed to further fisk in handling and use of the material result in excessive exposites. Accidental ingestion of the material may be damaging to the health of the individual. Adenosine receptor antagonists generally product stimulation. Stimulants are a class of drugs that speed up messages travelling between the brain and body. They can make a person feel more awake, alert, confident or energetic Stimulants include caffeine, nicotine, amphetamines and cocaine. Adenosine has a depressant action in the brain, heart, kidneys and other organs and is believed to mediate its effects via four adenosine receptor subtypes (A1, A2a, A2b, and A3). In addition, adenosine has been shown to be involved in pain cognition, movement and sleep. Caffeine and other alkylxanthines act as physiological stimulants by blocking the neuromodulator effects of adenosine. Adenosine receptor agonists, which are almost exclusively derivatives of adenosine have been identified as potential anti-arrhythmic, anti- lipolytic (thus antidiabetic) and neuroprotective agents (as agonists of the A1 receptor) and hypotensive and antipsychotic agents (as agonists of the A2a receptor). A3 receptor agonists have potential as prophylactic neuroprotective agents. The release of inflammatory mediators from mast cells, in response to A3 receptor activation, is proposed as the origin of the resultant hypotensive effect. There is substantial impetus for the development of therapeutic agents based on selective interactions with one of the four subtypes of receptor. In brain, exogenously administered adenosine receptors are efficient in producing neuroprotection. Neuroprotection is, in part, due to counteraction of the damaging effects of excessive glutamine release. Adenosine receptors have also been proposed to play a role in the patho-physiology of cerebral ischaemia. Adenosine, produced locally in response to increased activity or stress, activates adenosine receptors of the A1 and A2a subtypes			
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.			
	Entry into the blood-stream through, for example, cuts	s, abrasions, puncture wounds or lesio		
Eye	Entry into the blood-stream through, for example, cuts	s, abrasions, puncture wounds or lesic ensure that any external damage is su as classified by EC Directives), direct o	itably protected. contact with the eye may cause transient discomfort	
Eye Chronic	Entry into the blood-stream through, for example, cuts Examine the skin prior to the use of the material and of Although the material is not thought to be an irritant (a characterised by tearing or conjunctival redness (as w	s, abrasions, puncture wounds or lesic ensure that any external damage is su as classified by EC Directives), direct of with windburn). Slight abrasive damage roduce chronic effects adverse to hea be minimised as a matter of course. cause changes in lung function (i.e. pr	itably protected. contact with the eye may cause transient discomfort e may also result. The material may produce foreign th (as classified by EC Directives using animal neumoconiosis) caused by particles less than 0.5	
Chronic	Entry into the blood-stream through, for example, cuts Examine the skin prior to the use of the material and of Although the material is not thought to be an irritant (a characterised by tearing or conjunctival redness (as w body irritation in certain individuals. Long-term exposure to the product is not thought to p models); nevertheless exposure by all routes should the Long term exposure to high dust concentrations may micron penetrating and remaining in the lung. A prime	s, abrasions, puncture wounds or lesic ensure that any external damage is su as classified by EC Directives), direct of with windburn). Slight abrasive damage produce chronic effects adverse to hea be minimised as a matter of course. cause changes in lung function (i.e. pr e symptom is breathlessness. Lung sh	itably protected. contact with the eye may cause transient discomfort e may also result. The material may produce foreign th (as classified by EC Directives using animal neumoconiosis) caused by particles less than 0.5	
	Entry into the blood-stream through, for example, cuts Examine the skin prior to the use of the material and of Although the material is not thought to be an irritant (a characterised by tearing or conjunctival redness (as w body irritation in certain individuals. Long-term exposure to the product is not thought to p models); nevertheless exposure by all routes should the Long term exposure to high dust concentrations may	s, abrasions, puncture wounds or lesic ensure that any external damage is su as classified by EC Directives), direct of with windburn). Slight abrasive damage roduce chronic effects adverse to hea be minimised as a matter of course. cause changes in lung function (i.e. pr	itably protected. contact with the eye may cause transient discomfort e may also result. The material may produce foreign th (as classified by EC Directives using animal neumoconiosis) caused by particles less than 0.5	
Chronic Glucose & Fructose Analysis	Entry into the blood-stream through, for example, cuts Examine the skin prior to the use of the material and of Although the material is not thought to be an irritant (a characterised by tearing or conjunctival redness (as w body irritation in certain individuals. Long-term exposure to the product is not thought to p models); nevertheless exposure by all routes should the Long term exposure to high dust concentrations may micron penetrating and remaining in the lung. A prime <b>TOXICITY</b>	s, abrasions, puncture wounds or lesic ensure that any external damage is su as classified by EC Directives), direct of with windburn). Slight abrasive damage produce chronic effects adverse to hea be minimised as a matter of course. cause changes in lung function (i.e. pr e symptom is breathlessness. Lung sh IRRITATION Not Available bstances - Acute toxicity 2. Value obta.	itably protected. contact with the eye may cause transient discomfort a may also result. The material may produce foreign Ith (as classified by EC Directives using animal neumoconiosis) caused by particles less than 0.5 adows show on X-ray.	
Chronic Glucose & Fructose Analysis Kit Vial 2 Coenzymes <i>Legend:</i>	Entry into the blood-stream through, for example, cuts Examine the skin prior to the use of the material and a Although the material is not thought to be an irritant (a characterised by tearing or conjunctival redness (as w body irritation in certain individuals. Long-term exposure to the product is not thought to p models); nevertheless exposure by all routes should the Long term exposure to high dust concentrations may micron penetrating and remaining in the lung. A prime <b>TOXICITY</b> Not Available 1. Value obtained from Europe ECHA Registered Sutt specified data extracted from RTECS - Register of To	s, abrasions, puncture wounds or lesic ensure that any external damage is su as classified by EC Directives), direct of with windburn). Slight abrasive damage produce chronic effects adverse to hea be minimised as a matter of course. cause changes in lung function (i.e. pr e symptom is breathlessness. Lung sh IRRITATION Not Available bstances - Acute toxicity 2. Value obtain toxic Effect of chemical Substances	itably protected. contact with the eye may cause transient discomfort e may also result. The material may produce foreign Ith (as classified by EC Directives using animal neumoconiosis) caused by particles less than 0.5 adows show on X-ray.	
Chronic Glucose & Fructose Analysis Kit Vial 2 Coenzymes <i>Legend:</i> Acute Toxicity	Entry into the blood-stream through, for example, cuts Examine the skin prior to the use of the material and of Although the material is not thought to be an irritant (a characterised by tearing or conjunctival redness (as w body irritation in certain individuals. Long-term exposure to the product is not thought to p models); nevertheless exposure by all routes should the Long term exposure to high dust concentrations may micron penetrating and remaining in the lung. A prime <b>TOXICITY</b> Not Available 1. Value obtained from Europe ECHA Registered Sub	s, abrasions, puncture wounds or lesic ensure that any external damage is su as classified by EC Directives), direct of with windburn). Slight abrasive damage produce chronic effects adverse to hea be minimised as a matter of course. cause changes in lung function (i.e. pr e symptom is breathlessness. Lung sh IRRITATION Not Available bstances - Acute toxicity 2. Value obtato point Effect of chemical Substances	itably protected. contact with the eye may cause transient discomfort a may also result. The material may produce foreign Ith (as classified by EC Directives using animal neumoconiosis) caused by particles less than 0.5 adows show on X-ray. ined from manufacturer's SDS. Unless otherwise	
Chronic Glucose & Fructose Analysis Kit Vial 2 Coenzymes <i>Legend</i> :	Entry into the blood-stream through, for example, cuts Examine the skin prior to the use of the material and of Although the material is not thought to be an irritant (a characterised by tearing or conjunctival redness (as w body irritation in certain individuals. Long-term exposure to the product is not thought to p models); nevertheless exposure by all routes should the Long term exposure to high dust concentrations may micron penetrating and remaining in the lung. A prime <b>TOXICITY</b> Not Available 1. Value obtained from Europe ECHA Registered Sut specified data extracted from RTECS - Register of To	s, abrasions, puncture wounds or lesic ensure that any external damage is su as classified by EC Directives), direct of with windburn). Slight abrasive damage produce chronic effects adverse to hea be minimised as a matter of course. cause changes in lung function (i.e. pr e symptom is breathlessness. Lung sh IRRITATION Not Available bstances - Acute toxicity 2. Value obtain toxic Effect of chemical Substances	itably protected. contact with the eye may cause transient discomfort e may also result. The material may produce foreign Ith (as classified by EC Directives using animal neumoconiosis) caused by particles less than 0.5 adows show on X-ray.	
Chronic Chronic Glucose & Fructose Analysis Kit Vial 2 Coenzymes <i>Legend:</i> Acute Toxicity Skin Irritation/Corrosion	Entry into the blood-stream through, for example, cuts Examine the skin prior to the use of the material and of Although the material is not thought to be an irritant (a characterised by tearing or conjunctival redness (as we body irritation in certain individuals. Long-term exposure to the product is not thought to p models); nevertheless exposure by all routes should the Long term exposure to high dust concentrations may micron penetrating and remaining in the lung. A prime <b>TOXICITY</b> Not Available 1. Value obtained from Europe ECHA Registered Sub specified data extracted from RTECS - Register of To	s, abrasions, puncture wounds or lesic ensure that any external damage is su as classified by EC Directives), direct of with windburn). Slight abrasive damage produce chronic effects adverse to hea be minimised as a matter of course. cause changes in lung function (i.e. pr e symptom is breathlessness. Lung sh IRRITATION Not Available bstances - Acute toxicity 2. Value obtain poxic Effect of chemical Substances Carcinogenicity Reproductivity	itably protected. contact with the eye may cause transient discomfort a may also result. The material may produce foreign Ith (as classified by EC Directives using animal neumoconiosis) caused by particles less than 0.5 adows show on X-ray. ined from manufacturer's SDS. Unless otherwise X	

**SECTION 12 Ecological information** 

Toxicity

Glucose & Fructose Analysis Kit Vial 2 Coenzymes	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	Ecotox databa	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 degrada	bility			
Ingredient	Persistence: Water/Soil	Persistence: Water/Soil Persistence: Air		
	No Data available for all ingredients	No Data available for all ingredients No Data available for all ingredients		
<b>B</b>				
Bioaccumulative potentia	al			
Ingredient	Bioaccumulation	Bioaccumulation		
	No Data available for all ingredients	No Data available for all ingredients		
Mobility in soil				
Ingredient	Mobility	Mobility		
	No Data available for all ingredients	No Data available for all ingredients		

## **SECTION 13 Disposal considerations**

Recycle wherever possible or consult manufacturer for recycling options.	Waste treatment methods	
Product / Packaging disposal       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.	Product / Packaging disposal	<ul> <li>Consult State Land Waste Authority for disposal.</li> <li>Bury or incinerate residue at an approved site.</li> </ul>

## **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 accorda	dance 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

National Inventory	Status
Australia - AIIC / Australia 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
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	12/10/2021
Initial Date	08/18/2008
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
4.1	12/10/2021	Classification change due to full database hazard calculation/update.

#### 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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