

Biopoint Pty Ltd

Chemwatch: 5375-18 Version No: 5.1

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

Chemwatch Hazard Alert Code: 1

Issue Date: 23/12/2022 Print Date: 09/01/2023 S.GHS.AUS.EN

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

Product Identifier

Product name	EasySeed Custom viable		
Chemical Name	Not Applicable		
Synonyms	Not Available		
Proper shipping name	BIOLOGICAL SUBSTANCE, CATEGORY B		
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	Quality control sample for Cryptosporidium analysis.
	Use according to manufacturer's directions.

Details of the manufacturer or supplier of the safety data sheet

Registered company name	Biopoint Pty Ltd		
Address	Suite 16, 13A, Narabang Way, Belrose, Sydney NSW 2085 Australia		
Telephone	+61 2 8316 7939		
Fax	Not Available		
Website	www.biopoint.com.au		
Email	info@biopoint.com.au		

Emergency telephone number

Association / Organisation	Biopoint Pty Ltd	CHEMWATCH EMERGENCY RESPONSE	
Emergency telephone numbers	+61 2 8316 7939	+61 1800 951 288	
Other emergency telephone numbers	Not Available	+61 3 9573 3188	

Once connected and if the message is not in your preferred language then please dial 01

SECTION 2 Hazards identification

Classification of the substance 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

 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		up to 10^8 viable	
137259-50-8	NotSpec	Cryptosporidium parvum	
Not Available		oocysts	
Not Available	NotSpec	ingredients proprietary non hazardous, including	
Not Available		buffer and	
7732-18-5	NotSpec	water	
Legend:	1. Classified by Chernwatch; 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 If material containing a biological agent comes in contact with the eves: Eye Contact Seek immediate medical attention Removal of contact lenses should only be undertaken by skilled personnel. For any suspected contact with a material containing a biological agent Skin Contact Rinse thoroughly with water and perform approved disinfection procedures Seek medical attention. ▶ If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Inhalation Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor. Ingestion Transport to hospital or doctor and seek immediate attention.

Indication of any immediate medical attention and special treatment needed

Monitor patient for symptoms (eosinpohils in CSF). Confirm diagnosis by microscopic specimens and identification of oocysts in fecal smears. Rehydration and supportive therapy in patients who are not immunocompromised. LABORATORY ACQUIRED INFECTIONS: There has been one laboratory acquired infections reported 1983 as a result of accidental parenteral inoculation (needle stick). There is no effective therapeutic agent available. Treat symptomatically.

Protective vaccination/immunisation should be provided to workers depending on the organism being worked with.

for infectious organisms:

BASIC TREATMENT

- Establish a patent airway with suction where necessary.
- Watch for signs of respiratory insufficiency and assist ventilation as necessary. Administer oxygen by non-rebreather mask at 10 to 15 l/min.

ADVANCED TREATMENT

- Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- Monitor and treat, where necessary, for arrhythmias.
- Start an IV D5W TKO.

SPECIAL CONSIDERATIONS

Symptomatic and supportive care should not be delayed. BRONSTEIN, A.C. and CURRANCE, P.L EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994 SURVEILLANCE on the organism being worked with. FIRST AID / TREATMENT DRUG SUSCEPTIBILITY:

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 None known.

Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.
Fire/Explosion Hazard	 Non combustible. Not considered to be a significant fire risk. Expansion or decomposition on heating may lead to violent rupture of containers. Decomposes on heating and may produce toxic fumes of carbon monoxide (CO). May emit acrid smoke. Decomposes on heating and produces toxic fumes of: carbon dioxide (CO2)
HAZCHEM	2X

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	 Action to be taken in the event of damage or leakage: If any person responsible for the carriage or opening of packages containing infectious substances (Class 6.2) becomes aware of damage to or leakage from such packages he/she should: Avoid handling the package or keep handling to a minimum Inspect adjacent packages for contamination and put aside any that may have been contaminated. Inform the appropriate Health or Veterinary Authority, and provide information on any other countries of transit where persons may have been exposed to danger; and Notify the consignor and/or consignee. A Public Health or Veterinary Authority to which actual or suspected leakage from or damage to an infectious substance package is reported, should notify the authorities of any countries in which the package may have been handled including countries in transit. [IMDG Code p. 6309] Allow aerosols to settle. Cover spill with paper towel. Apply a 1% sodium hypochlorite solution. Start application from the perimeter of the spill and work towards the centre. Allow sufficient contact time (30 minutes) before beginning clean-up.
Major Spills	Generally not applicable.

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

SECTION 7 Handling and storage

Precautions for safe handling

J	
Safe handling	Laboratories and areas where active biological agents are handled must be restricted to authorised persons trained to perform specific tasks. Clothing restrictions must be enforce of in these areas and the mandatory equipment worn. Laboratory Containment or Physical Containment Level 2 (PC 2) must be used for work with biological agents in Hazard or Risk Group 2. I Laboratory personnel must receive suitable and sufficient information, instruction and training in working safely with agents in Group 2. I A high standard of supervision of the work should be maintained. Access to the laboratory is to be restricted to authorised persons. There must be specified disinfection procedures. Mechanically ventilated laboratories must be impervious to water, easy to clean and resistant to acids, alkalies, solvents and disinfectants. Safe storage must be provided for biological agents. Procedures that give rise to infectious aerosols must be conducted in a microbiological safety cabinet, isolator, glove box or otherwise suitably contained. Access to an incinerator shall be provided for the disposal of infected animal carcases. There should be adequate space (24m3) in a laboratory for each worker. Eating, chewing, drinking, smoking, taking medication, storing food and applying cosmetics in the laboratory should be forbidden. Bench surfaces should be dequate space (24m3) in a laboratory for each worker. Hands should be decontaminated immediately when contamination is suspected, after handling infective materials and before leaving the laboratory. When gloves are worn, these should be washed or preferably changed before handling items likely to be touched by others not wearing gloves, (eg phones, paperwork). Computer keyboards and, where practicable, equipment controls should be protected by a removable flexible cover that can be disinfected. A means for the safe collection, storage and disposal of contaminated waste shall be provided. A means for the safe oullection, storage and disposal of contaminated was

	from latent or persistent infections in the particular species in use.
	 A person responsible for animal experiments must ensure that all those who need to know are made aware of the particular hazards concerned.
	concerned.
	 Access to the animal room must be any to charge to automise people. The applied room must be acay to charge surfaces must be impensious to water and recipitant to acids, alkalis, solvents and
	 The alima routh must be easy to clean. Denot suffaces must be impervious to water and resistant to acids, atkais, solvents and disinfartants
	usine cans.
	 The animal room must be maintained at a penative air pressure if mechanically ventilated
	Effective vector control measures (en against rodents and insects) must be taken.
	Safe storage shall be provided for any biological agents brought into the animal room.
	A safety cabinet, isolator or other suitable containment must be used for procedures which involve handling infected animals, infected
	materials or where an aerosol may be created.
	An incinerator must be accessible for the disposal of animal carcasses.
	Suitable protective clothing and footwear should be worn in the animal room and cleansed or removed when leaving.
	• A face shield should be worn when injecting animals. All manipulations should be performed so as to minimise the production of aerosols.
	Animal rooms should be adequately ventilated and, where mechanical ventilation is used, the room air should be extracted to the external
	atmosphere. An net inward air flow shall be maintained.
	The door to the animal room should be closed when infected animals are present and a sign placed on it indicating the level of the work.
	• Eating, chewing, drinking, smoking, taking medication, storing food and applying cosmetics in the animal room should be forbidden.
	Mouth pipetting is forbidden.
	Facilities for hand washing shall be provided, preferably in the animal room.
	Hands should be decontaminated immediately when contaminated is suspected before leaving the animal room.
	All waste material, including animal bedding, should be rendered non-infective before disposal.
	Material for autoclaving or incineration and used animal cages should be transported without spillage. Material for incineration must be
	transported in secure containers.
	Used animal cages should be rendered non-infective by disinfection, fumigation, or heat treatment by steaming or autoclaving.
	Work surfaces should be disinfected after use.
	If floor drains are installed, the traps should always contain water.
	Drain traps should regularly be disinfected and cleaned.
	All accidents and incidents should be immediately reported to and recorded by the person responsible for the work or other delegated person
	Where invertebrates are known to be intected with biological agents, the principles of containment applying to animal rooms must be applied.
	work must be done at the level of containment appropriate to nazara rating of the agent concerned". In adopting the principles used in the
	containment or animais the rollowing additional requirements should be considered.
	 Separate rooms should be deed to minicide and non-innected inverter bates.
	A more contacts should be contained appropriately according to whether they now in water, are amphibious, craw of jump, of ny.
	 Aquate or ampringious invertebrates should be kept in rains with nois to prevent escape. Crawling impring or fiving invertebrates should be kept in issect-proof prome ventilation inlets and outlets should be screened entry to
	 Crawing, junping of nying invertebrates should be then in necessition of the provided in a straight and outlets as should be solvened, entry to roome should be through airlocke (insection) to be any of the provided in airlocke), massives should be taken to ansure that assame invertebrates
	are easily detected recentured and destroyed laboratory sinks should be provided with adequate trans. liquid and solid waste should be
	treated before disposal (preferably with best rather than by chemical means)
	Insectional provide product of the section of th
	Arthropods may be chilled to reduce their activity and prevent escape. Flying or crawling arthropods requiring Containment Level 1 and 2.
	should be handled on white trays to detect escapees.
	Ticks and mites should be kept in containers over trays of oil.
	Flying insects infected with agents in Hazard Groups 2, 3 or 4 should be kept in double cages; both enclosures should be labelled.
	Experimental cages/containers should be numbered/labelled or otherwise documented to indicate hazard
	Containment Level 3 or 4, flying or crawling arthropods should be kept in identified lots and each lot accounted for; they should also be
	handled in safety cabinets, isolators or partial containment devices provided with HEPA-filtered exhaust ventilation or its equivalent.
	Infected invertebrates not known to be dead should be handled in a safety cabinet or other form of safe enclosure. Records should be made
	of the number of individual invertebrates received by a laboratory as soon as is practically possible. Each invertebrate should be accounted
	for as the work proceeds through to final fixation or disposal.
	Where the identification of flying or crawling invertebrates alone is required, the container may be frozen two hours @ -20 C to kill them. Full
	Containment Level 3 is not always required for all work with Hazard Group 3 agents. Non-infective stages in the life-cycle of a parasite and
	certain agents for which a derogation has been allowed, may not always demand an inward airflow or use of a safety cabinet.
	It is required for safe working that the Containment Level selected for any laboratory suite, storeroom or animal room must match the hazard
Other information	

Conditions for safe storage, including any incompatibilities

Suitable container	Container capacity approx. 2mls. Receptacles with their closures or fittings shall be as approved by the competent authority of the country of origin.	
Storage incompatibility	 Presence of heat source and direct sunlight (ultra-violet radiation). Avoid strong acids, acid chlorides, acid anhydrides and chloroformates. 	

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	
EasySeed Custom viable	Not Available	Not Available		Not Available	
Ingredient	Original IDLH		Revised IDLH		
Cryptosporidium parvum	Not Available		Not Available		
water	Not Available		Not Available		

		Engineering controls are used to remove a hazard or place a be highly effective in protecting workers and will typically be i The basic types of engineering controls are: Process controls which involve changing the way a job activit Enclosure and/or isolation of emission source which keeps a "adds" and "removes" air in the work environment. Ventilation ventilation system must match the particular process and che Employers may need to use multiple types of controls to prev Local exhaust ventilation usually required. If risk of overexpos protection. Supplied-air type respirator may be required in sp An approved self contained breathing apparatus (SCBA) may Provide adequate ventilation in warehouse or closed storage velocities which, in turn, determine the "capture velocities" of	barrier between the worker and the hazard. Well-designed independent of worker interactions to provide this high level by or process is done to reduce the risk. selected hazard "physically" away from the worker and ven in can remove or dilute an air contaminant if designed proper emical or contaminant in use. rent employee overexposure. sure exists, wear approved respirator. Correct fit is essential ecial circumstances. Correct fit is essential to ensure adequ y be required in some situations. area. Air contaminants generated in the workplace possess fresh circulating air required to effectively remove the conta-	engineering controls can of protection. tilation that strategically rly. The design of a I to obtain adequate late protection. s varying "escape" aminant.
		Type of Contaminant:		Air Speed:
		solvent, vapours, degreasing etc., evaporating from tank (in still air).		0.25-0.5 m/s (50-100 f/min.)
		aerosols, fumes from pouring operations, intermittent conta drift, plating acid fumes, pickling (released at low velocity in	ainer filling, low speed conveyer transfers, welding, spray nto zone of active generation)	0.5-1 m/s (100-200 f/min.)
		direct spray, spray painting in shallow booths, drum filling, o generation into zone of rapid air motion)	conveyer loading, crusher dusts, gas discharge (active	1-2.5 m/s (200-500 f/min.)
		grinding, abrasive blasting, tumbling, high speed wheel ger very high rapid air motion).	nerated dusts (released at high initial velocity into zone of	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	
	Appropriate engineering controls	3: Intermittent, low production.	3: High production, heavy use	
	0011013	4: Large hood or large air mass in motion	4: Small hood-local control only	
-		 producing performance deficits within the extraction apparatumore when extraction systems are installed or used. It is required for safe working that the Containment Level sele grouping of the biological agent as a minimum. (Some excep FUMIGATION: Microbiological safety cabinets must always be fumigated if a any maintenance work is carried out which involves access the Fumigation should be conducted with the night door sector. Passive migration of the fumigant through the filter is allow seconds thus ensuring penetration of filter medium. The fumigant to disperse within the cabinet. After at least six allowing room air to enter through, for example, the night Ensure that no personnel remain in the vicinity of the exh Discarded filter units should be bagged and autoclaved p There are special difficulties if the cabinet has been used they are resistant to inactivation by formalin. Access to the area is to be restricted to authorised persons. <i>I</i> (laboratory, store, animal room) is mechanically ventilated it r progress. If traffic in and out of Containment Level 2-4 rooms interferess contain airborne pathogens in the event of accident, then engal airborne transmission to other areas. When undertaking procedures that are likely to give rise to in with an equivalent, verified protection factor should be used. biological agents requiring Containment Level 2. 	is, make it essential that theoretical air velocities are multiple acted for any laboratory suite, storeroom or animal room mu- tions may apply) I large spill of infectious material occurs within them, before to the interior of the cabinet (air duct maintenance for examp- urely sealed and the non-return valve left closed. wable. Alternately the valve may be left open and the fan m valve should then be closed and the fan switched off allowin hours the fumigant should be exhausted to atmosphere by door bung-hole. aust outlet and that exhaust air does not enter windows or wrior to disposal. I with agents responsible for causing transmissible spongifo A specific disinfection procedure must be established and a must be maintained at an air pressure negative to atmospher with ventilation airflow patterns and, if the laboratory is ven gineering controls and working arrangements must be devis fectious aerosols, a Class 1 microbiological Safety Cabinet Cabinets should exhaust to outside air. Double HEPAR filte luding particles of 0.3 micron size.	ied by factors of 10 or ist match the hazard filters are changed or ile). hay be run for 10 to 15 ing the remainder of the switching on the fan and ventilation air intakes. orm encephalophies as pplied. If the area ere whilst work is in titlated specifically to sed to counter the risk of conforming to BS5726 or ring is not necessary
	Personal protection			
	Eye and face protection	 Safety glasses with side shields Chemical goggles. 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] 		/ document, describing iew of lens absorption I should be trained in ation immediately and ans should be removed in 9], [AS/NZS 1336 or
	Skin protection	See Hand protection below		
	Hands/feet protection	The selection of suitable gloves does not only depend on the manufacturer. Where the chemical is a preparation of several and has therefore to be checked prior to the application. The exact break through time for substances has to be obtain	material, but also on further marks of quality which vary fro I substances, the resistance of the glove material can not be red from the manufacturer of the protective gloves and has	m manufacturer to e calculated in advance to be observed when

making a final choice.

	Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: - requency and duration of contact, - chemical resistance of glove material, - glove thickness and - deviterity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). - When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.1.0.1 or national equivalent) is recommended. - When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.1.0.1 or national equivalent) is recommended. - Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use. - Contaminated gloves should be replaced. As defined in ASTM F-739-96 in any application, gloves are rated as: - Excellent when breakthrough time > 480 min - Fair when breakthrough time > 20 min - Fair when breakthrough time < 20 min - For owner al polications, gloves with a thickness typically greater than 0.35 mm, are recommended. It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the ask requirements and knowledge of breakthrough times. Should be replaced, and ways be taken into account on esus appropri
Body protection	See Other protection below
	 I aboratory coats or downs should be side or back fastening and should be worn when in and removed when leaving the area
Other protection	 Separate storage, set apart from personal clothing, should be available in the laboratory suite. A wash basin should be located near the laboratory exit with taps that can be operated without being touched by hand

Respiratory protection

Cartridge respirators should never be used for emergency ingress or in areas of

not properly fitted. Because of these limitations, only restricted use of cartridge

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

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

The wearer must be warned to leave the contaminated area immediately on

unknown vapour concentrations or oxygen content.

respirators is considered appropriate.

daily, regardless of the length of time used

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

EasySeed Custom viable

Material	СРІ
BUTYL	А
NEOPRENE	A
VITON	A
NATURAL RUBBER	С
PVA	С

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

 $\ensuremath{\textbf{NOTE}}$: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Clear, colourless and odourless 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 Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 Stability and reactivity

1

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
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	Inhalation of infectious aerosols may result in an asymptomatic infection (most infections are asymptomatic) or a symptomatic infection. This is characterised by a sudden onset of diarrhoea with foul-smelling and greasy looking stools that lacks mucous and blood. This is associated with abdominal cramps, bloating, fatigue and weight loss. The infection is restricted to the small intestine without invasion. The incubation period for the disease ranges from 5-25 days, with an average period of 7-10 days. The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models). Nevertheless inhalation of vapours, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally, distress.		
	Etiological (infectious) agents produce a variety of effects, some life-threatening. Most have an incubation period and no acute symptoms. INCUBATION PERIOD:		
Ingestion	Potentially infectious. Accidental ingestion of the material may be damaging to the health of the individual.		
Skin Contact	Potentially infectious. 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 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.		
Eye	Contact with open wounds should be avoided as the material is potentially infectious. 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).		
Chronic	Principal routes of exposure are by skin contact, accidental injection (needle stick), ingestion and/or inhalation of aerosols. Symptoms and longer term effects are related to the pathology of the infection.		
	TOXICITY	IRRITATION	
EasySeed Custom viable	Not Available	Not Available	
Cryptosporidium parvum	ΤΟΧΙCITY	IRRITATION	
	Not Available	vailable Not Available	
	тохісіту	IRRITATION	
water	Oral (Rat) LD50; >90000 mg/kg ^[2]	Not Available	
Legend:	Legend: 1. 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		
CRYPTOSPORIDIUM PARVUM & WATER	No significant acute toxicological data identified in lite	erature search.	
	¥	Carcinogenicity	¥
Skin Irritation/Corrosion	X	Reproductivity	X
Serious Eve Damage/Irritation	¥	STOT - Single Exposure	Y

Respiratory or Skin sensitisation × STOT - Repeated Exposure × Mutagenicity × Aspiration Hazard × Legend: × - Data either not available or does not fill the criteria for classification v - Data available to make classification

SECTION 12 Ecological information

Toxicity

	Endpoint	Test Duration (hr)	Species	Value	Source
EasySeed Custom viable	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
Cryptosporidium parvum	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
water	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	Extracted from Ecotox databa - Bioconcentra	n 1. IUCLID Toxicity Data 2. Europe ECHA Register ase - Aquatic Toxicity Data 5. ECETOC Aquatic Haz ation Data 8. Vendor Data	ed Substances - Ecotoxicological Information - A ard Assessment Data 6. NITE (Japan) - Bioconce	quatic Toxicity 4. entration Data 7. I	US EPA, METI (Japan)

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
water	LOW	LOW
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	 Infected materials should be placed in yellow waste sacks and suitably labelled (with permanent marker or tie-on label) showing the source of the material. Sacks should be no more than three quarters full and should be closed with purpose-made plastic ties or closures or, in the case of light-gauge sacks, may be tied off at the neck. Heat-sealers, purpose-made for clinical waste may also be used. Sacks should then be stored and transported in a robust secondary container which is leak-proof and which may be readily decontaminated. Alternately animal carcasses which present higher-level risks (for example material from Animal Containment Levels 3 and 4) may be transported in purpose-made plastic disposal containers. These are hermetically sealed with snap-on lids and are designed for safe transportation and incineration in their entirety. After sealing, the container should be externally decontaminated and labelled before removal to the incinerator. It is advisable to use only containers of the type which conform with drop-tests and leak-tests defined, for example, by the United Nations. 	

SECTION 14 Transport information

Labels Required		
	6	
Marine Pollutant	NO	
HAZCHEM	2X	

Land transport (ADG)

UN number	3373
UN proper shipping name	BIOLOGICAL SUBSTANCE, CATEGORY B

Transport hazard class(es)	Class 6.2 Subrisk Not	Applicable	
Packing group	Not Applicable		
Environmental hazard	Not Applicable		
Special precautions for user	Special provisio	ons 319 341 7 0	

Air transport (ICAO-IATA / DGR)

UN number	3373			
UN proper shipping name	Biological substance, Category B			
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	6.2 Not Applicable 11L		
Packing group	Not Applicable			
Environmental hazard	Not Applicable			
Special precautions for user	Special provisions Cargo Only Packing Instructions Cargo Only Maximum Qty / Pack Passenger and Cargo Packing Instructions Passenger and Cargo Maximum Qty / Pack Passenger and Cargo Limited Quantity Packing Instructions Passenger and Cargo Limited Maximum Qty / Pack		Not Applicable See 650 See 650 See 650 See 650 Forbidden Forbidden	

Sea transport (IMDG-Code / GGVSee)

UN number	3373			
UN proper shipping name	BIOLOGICAL SUBS	BIOLOGICAL SUBSTANCE, CATEGORY B		
Transport hazard class(es)	IMDG Class IMDG Subrisk	6.2 Not Applicable		
Packing group	Not Applicable			
Environmental hazard	Not Applicable			
Special precautions for user	EMS Number Special provisions Limited Quantities	F-A, S-T 319 341 0		

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
Cryptosporidium parvum	Not Available
water	Not Available

Transport in bulk in accordance with the ICG Code

Product name	Ship Type
Cryptosporidium parvum	Not Available
water	Not Available

SECTION 15 Regulatory information

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

Cryptosporidium parvum is found on the following regulatory lists

Not Applicable

water is found on the following regulatory lists Australian Inventory of Industrial Chemicals (AIIC)

National Inventory Status

National Inventory

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	No (Cryptosporidium parvum)	
Canada - DSL	No (Cryptosporidium parvum)	
Canada - NDSL	No (Cryptosporidium parvum; water)	
China - IECSC	No (Cryptosporidium parvum)	
Europe - EINEC / ELINCS / NLP	No (Cryptosporidium parvum)	
Japan - ENCS	No (Cryptosporidium parvum)	
Korea - KECI	No (Cryptosporidium parvum)	
New Zealand - NZIoC	No (Cryptosporidium parvum)	
Philippines - PICCS	No (Cryptosporidium parvum)	
USA - TSCA	No (Cryptosporidium parvum)	
Taiwan - TCSI	No (Cryptosporidium parvum)	
Mexico - INSQ	No (Cryptosporidium parvum)	
Vietnam - NCI	No (Cryptosporidium parvum)	
Russia - FBEPH	No (Cryptosporidium parvum)	
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	23/12/2022
Initial Date	28/10/2019

SDS Version Summary

Version	Date of Update	Sections Updated
4.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification
5.1	23/12/2022	Classification review due to GHS Revision change.

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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