### Organic Digester Safety Data Sheet

1. Identification of Substance & Company

Product					
Product name Other names Product codes HSNO approval Approval descri UN number DG class Proper Shipping Packaging grou Hazchem code Uses	, J Name	Organic Digester no other names NA HSR002571 Fertilisers (Subsidiary Hazard) Gr NA NA NA NA NA Accelerate the breakdown of crop			
<b>Company Detail</b>	s				
Company Address		<b>Biostart LTD</b> 17 Reta Crescent Kerepehi 3671 New Zealand 0800 116 229	<b>Biostart Brands PTY Ltd</b> L1/109 Jessie St Armidale NSW 2350 Australia 1800 359 555		
Telephone Website		biostart.co.nz	biostart.com.au		
nobolito	Emergency 1	Felephone Number: 08			
		Emergency Number:			
		• •	15 11 20		
		2. Hazard Identification			
Approval in New	v Zealand				
HSR002571, Fe	This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002571, Fertilisers (Subsidiary Hazard) Group Standard 2020). The substance has been classified as hazardous according to the criteria in the Hazardous Substances (Hazard Classification) Notice 2020.				
Classes	Hazard S	Statements			
Eye irritation ca		H320 - Causes eye irritation.			
WARNI					
Australian GHS	Classification				
Eye irritation ca		H320 - Causes eye irritation.			
Precautionary S	Statements				
Prevention	P103 - Read label before us P264 - Wash hands thoroug P280 - Wear protective glov	phly after handling.			
Response	P305+P351+P338 - IF IN E if present and easy to do. C	YES: Rinse cautiously with water for	several minutes. Remove contact lenses, on.		
Storage	No storage statements				

**Disposal** P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

3.

Com	oosition /	Information	on Ingredients

Component	CAS/ Identification	Conc (%)
Nonviable fermentation products	proprietary	30-60%
Citric acid	77-92-9	1-10%
Potassium sulfate	7778-80-5	1-10%
Ingredients not contributing to HSNO classes	Mixture	1-10%
Water	7732-18-5	balance

#### 4. First Aid

#### **General Information**

If medical advice is needed, have product container or label at hand. You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service) – New Zealand or 13 1126 (24 hr emergency service) – Australia. **Recommended first aid**Ready access to running water is required. Accessible eyewash is required.

### facilities

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Water. v-lying
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container
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		7. Storage	& Handling	
Storage Handling		Containers should be kept cl extreme heat and open flame Section 10.	stances with food. Store out o osed in order to minimise cont es. Avoid contact with incompa n, and minimise the quantities	tamination. Keep from atible substances as listed in
-		section 8 with regard to pers	onal protective equipment require	ements.
	8.	Exposure Controls / Per	sonal Protective Equipme	ent
Workplace Exposure S	tandards			
3mg/m <sup>3</sup> for respirable pa NZ Workplace		nd 10mg/m <sup>3</sup> for inhalable part	by WorkSafe NZ for this produ iculates when limits have not o WES-TWA*	
Exposure Standards -	Australia			
Australian	Ingredien	t	ES-TWA*	ES-STEL
Exposure Standards	No ingredi	ents listed		
Engineering Controls				
In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far				

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

**Personal Protective Equipment** 

General	Personal Protective Equipment (PPE) should not be used as the primary means of exposure protection, except in the event of an accident or emergency situation or where all other means of protection have proven to inadequate. Clean PPE after use or dispose of as appropriate. Store PPE for re-use in a clean place. Regular training on the correct use of PPE should be provided. In particular the correct fitting and use of respirators and where applicable the cleaning of respirators should be undertaken.
Eyes	Avoid contact with eyes. Use safety glasses and or chemical splash goggles if splashes are possible. Select eye protection in accordance with AS/NZS 1337.
Skin	If discomfort is felt (e.g., if pre-existing conditions exist, such as dermatitis, cuts or sensitive skin), gloves may be helpful. If you suffer from dermatitis type skin conditions, use gloves. Nitrile gloves are recommended. Protective gloves or suitably resistant material must comply with AS 2161. Replace frequently. Gloves should be checked for tears or holes before use.
Respiratory	Respirator is not required under normal use. Ensure adequate natural ventilation. If product is being used in confined conditions, the use of a mask or respirator may be preferred.
WES Additional Information	
Not applicable	

Appearancebrown liquidOdourmild characteristic odourOdour Thresholdno datapH3.8-4.0Freezing/melting pointno dataBoiling Point100°CFlashpointno dataFlashpointno dataUpper & lower flammable limitsno dataVapour pressureno dataVapour density1.05-1.07Solubilitycompletely soluble in watPartition coefficientno data		
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Solubility completely soluble in wat		
Partition coefficient no data	er	
ratition coefficient no data		
Auto-ignition temperature no data		
Decomposition temperature no data		
Viscosity no data		
Particle Characteristics no data		
10. Stabil	ity & Reactivity	
Stability Stable		
,	t closed in order to avoid contamination. Keep from extreme	
heat and open flames.		
Incompatible groups Strong acids and bases, of	oxidisers.	
Substance Specific none known		
Incompatibility		
Hazardous decomposition Oxides of carbon, sulphu	r	
products		
Hazardous reactions none known		
11. Toxicological Information		

Summary

IF SWALLOWED: may cause gastrointestinal irritation. IF IN EYES: may be irritating to the eye. IF ON SKIN: may cause mild skin irritation.

IF INHALED: no effect known.

#### **Supporting Data**

Acute	Oral	Using LD <sub>50</sub> 's for ingredients, the calculated LD <sub>50</sub> (oral, rat) for the mixture is $>5,000$ mg/kg. Data considered includes: Citric acid 5040mg/kg (mouse), 3000mg/kg (rat).
	Dermal	No evidence of dermal toxicity.
	Inhaled	No evidence of inhalation toxicity.
	Eye	The mixture is considered to be an eye irritant.
	Skin	The mixture is considered to be a mild skin irritant.
Chronic	Sensitisation	No ingredient present at concentrations > 0.1% is considered a sensitizer.
	Mutagenicity	No ingredient present at concentrations > 0.1% is considered a mutagen.
	Carcinogenicity	No ingredient present at concentrations > 0.1% is considered a carcinogen.
	Reproductive /	No ingredient present at concentrations > 0.1% is considered a reproductive or
	Developmental	developmental toxicant or have any effects on or via lactation.
	Systemic	No ingredient present at concentrations > 1% is considered a target organ toxicant.
	Aggravation of existing conditions	None known.

		12.	Ecological Data	
Summary				
This mixture is not co	nsidered ecc	otoxic.		
Supporting Data				
Aquatic Bioaccumulation Degradability Soil Terrestrial vertebrat Terrestrial invertebra Biocidal Environmental effect	ate	considered include ~120mg/l (72hr, Da No data No data No evidence of soi See acute toxicity.	s: Citric acid 1516mg/L (§ aphnia magna), , potassiu	
		13. Di	sposal Consideration	IS
Restrictions			•	owever, local council, resource consent and
Disposal method		Disposal of this pro 2017 and the requi be sought from the	oduct must comply with th rements of the Resource	ng requirements of trade waste consents. le Hazardous Substances (Disposal) Notice Management Act for which approval should substance must be treated and therefore the environment.
Contaminated pack	aging	Disposal of contam (Disposal) Notice 2 containing any sub	ninated packaging must c 2017 clause 12. Ensure the stance and is disposed in a substance it contained a	omply with the Hazardous Substances that the package is rendered incapable of a manner that is consistent with the and the material of the package. If possible
		14. T	ransport Information	
		s Goods 2005 - NZS		
There are no specific UN number:	restrictions f	or this product (not a <b>Prop</b>	dangerous good). er shipping name:	NA
Class(es)	NA	Pack	ing group:	NA
Precautions:	NA	Hazo	hem code:	NA
IMDG				
UN number:	NA	Prop	er shipping name:	Not regulated
Class(es)	NA		ing group:	NA
Precautions:	NA	EmS		NA
ΙΑΤΑ				
UN number:	NA		er shipping name:	Not regulated
Class(es) Precautions:	NA NA		king group: Guide	NA NA
FIEGAULIONS:	IN/A	ERG	Guide	NA .

### Organic Digester Safety Data Sheet

### 15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002571, Fertilisers (Subsidiary Hazard) Group Standard 2020. All ingredients appear on the NZIoC.

**Specific Controls** 

Key workplace requirements are:	
SDS	To be available within 10 minutes in workplaces storing any quantity.
Inventory	An inventory of all hazardous substances must be prepared and maintained.
Packaging	All hazardous substances should be appropriately packaged including substances that have been decanted, transferred or manufactured for own use or have been supplied
Labelling	Must comply with the Hazardous Substances (Labelling) Notice 2017.
Emergency plan	Not required.
Certified handler	Not required.
Tracking	Not required.
Bunding & secondary containment	Not required.
Signage	Not required.
Location compliance certificate	Not required.
Flammable zone	Not required.
Fire extinguisher	Not required.

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

#### Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

#### Australian regulations

Standard for the Uniform Scheduling	Not scheduled	
of Drugs and Poisons (SUSDP) Applicable prohibitions and	Not listed	
notifications/licensing requirements Agricultural and Veterinary	Not listed	
Chemicals Act Listing in the Australian Inventory of	Citric acid - IMAP - Tier II - Human Health	
Chemical Substances (AICS) Additional information	Potassium sulphate - IMAP - Tier I - Human Health Not applicable	
16. Other Information		

#### Abbreviations

Approval Code AICS CAS Number EC₅₀	Approval HSR002571, Fertilisers (Subsidiary Hazard) Group Standard 2020 Controls, EPA. www.epa.govt.nz Australian Inventory of Chemical Substances Unique Chemical Abstracts Service Registry Number Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species)
EPA	Environmental Protection Authority (New Zealand)
GHS	Globally Harmonised System of Classification and Labelling of Chemicals, 7 <sup>th</sup> revised edition, 2017, published by the United Nations.
HAZCHEM Code	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters
HSNO	Hazardous Substances and New Organisms (Act and Regulations)
IARC	International Agency for Research on Cancer
LEL	Lower Explosive Limit
LD <sub>50</sub> LC <sub>50</sub>	Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats). Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (usually rats)

References Unless otherwise stated comes from the EPA HSNO chemical classification inform database (CCID).   Controls EPA notices, www.epa.govt.nz, Health and Safety at Work (Hazardous Substance Regulations 2017, www.legislation.govt.nz   WES The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and av on their web site – www.worksafe.govt.nz.   ES Workplace Exposure standards for airborne contaminants – Safework Australia.   Other References: Suppliers SDS, EU ECHA, ingredients SDS's, ChemIDplus   Review Pate   June 2019 Not applicable – new SDS	ealand Inventory of Chemicals Form Exposure Limit - The maximum airborne concentration of a chemical or cal agent to which a worker may be exposed in any 15 minute period, provided the in the exceeded Target Organ Toxicity – Repeated Exposure Target Organ Toxicity – Single Exposure Veighted Average – generally referred to WES averaged over typical work day 7 8 hours) Explosive Limit Nations Number ace Exposure Standard - The airborne concentration of a biological or chemical o which a worker may be exposed during work hours (usually 8 hours, 5 days a The WES relates to exposure that has been measured by personal monitoring procedures that gather air samples in the worker's breathing zone.
Data database (CCID).   Controls EPA notices, www.epa.govt.nz, Health and Safety at Work (Hazardous Substance Regulations 2017, www.legislation.govt.nz   WES The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and av on their web site – www.worksafe.govt.nz.   ES Workplace Exposure standards for airborne contaminants – Safework Australia.   Other References: Suppliers SDS, EU ECHA, ingredients SDS's, ChemIDplus   Review Reason for review	
Date Reason for review	se (CCID). btices, www.epa.govt.nz, Health and Safety at Work (Hazardous Substances) ttions 2017, www.legislation.govt.nz test NZ Workplace Exposure Standards, published by WorkSafe NZ and available r web site – www.worksafe.govt.nz. lace Exposure standards for airborne contaminants – Safework Australia.
January 2020 Review of approval July 2023 HSNO to GHS 7, new address, logo May 2024 New address Disclaimer	plicable – new SDS v of approval to GHS 7, new address, logo

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely GHS 7 classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email info@datachem.co.nz or phone: +64 21 1040951.



**Organic Digester** 

Safety Data Sheet