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Section 1: SUBSTANCE AND SUPPLIER DETAILS

GHS Product Identifier:	BPM – Optisolve Goat
Other Name[s]:	Blue Pacific Minerals – Optisolve Goat Premix
Proper Shipping Name:	Environmentally Hazardous Substance, Solid, N.O.S. [Contains Copper Glycinate, Zinc Sulphate]
Chemical Formula:	Composition
Product Code:	TBC
	n/a
CAS Number:	il/a
Product Use	
Recommended Use:	Animal Feed Premix
SUPPLIER DETAILS	
Company Name:	Image Holdings Limited
Address:	50 Central Park Drive, Henderson, Auckland 0610, New Zealand
Telephone:	0064 9 834 3783
Email:	info@imageholdings.co.nz
Website:	www.imageholdings.co.nz
EMERGENCY TELEPHONE NUMBERS	
National Poisons Information Centre:	0800 POISON (0800 764 766)
Emergency Telephone Number:	0800 764 766
Other Emergency Numbers:	0064 21 934 058
Transport Emergency:	111: Tell operator what service is needed: Fire, Ambulance, Police.
Please ensure that the limitations of the	his Safety Data Sheet are referred to as set out in Section 16: Other Information at the end of this document.
	Section 2: HAZARDS IDENTIFICATION
CLASSIFICATION OF SUBSTANCE OR COMPOSITION	
Transport Classification:	Classified as a Dangerous Goods according to NZS 5433:2012 Transport of Dangerous Goods on Land
Hazard Classifications:	Classified as hazardous according to criteria in the Hazardous Substances & New Organisms Act 2015
	Classified as Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals [GHS Rev.7]
HSNO Approval Number:	HSR002521
HSNO Classifications:	6.1D: Substances that are acutely toxic - Harmful
	6.3A: Substances that are irritating to the skin
	6.4A: Substances that are irritating to the eye
	6.5B: Substances that are contact sensitizers
	 6.7B: Substances that are suspected human carcinogens 6.8A: Substances that are known or presumed human reproductive or developmental toxicants
	6.9B: Substances that are harmful to human target organs or systems
	8.3A: Substances that are corrosive to ocular tissue
	9.1A: Substances that are very ecotoxic in the aquatic environment
	9.2C: Substances that are harmful in the soil environment
	9.3C: Substances that are harmful to terrestrial vertebrates
GHS Classification:	Acute Toxicity [Oral] - Category 4
	Skin corrosion/irritation - Category 2
	Serious eye damage/irritation - Category 1 Respiratory sensitisation - Category 1
	Skin sensitisation - Category 1
	Carcinogenicity - Category 1B
	Carcinogenicity - Category 1B Reproductive toxicity - Category 1B
	Reproductive toxicity - Category 1B Specific target organ toxicity [repeated exposure] - Category 2
	Reproductive toxicity - Category 1B Specific target organ toxicity [repeated exposure] - Category 2 Hazardous to the aquatic environment, short-term [Acute] - Category 1
	Reproductive toxicity - Category 1B Specific target organ toxicity [repeated exposure] - Category 2 Hazardous to the aquatic environment, short-term [Acute] - Category 1 Hazardous to the aquatic environment, long-term [Chronic] - Category 2
	Reproductive toxicity - Category 1B Specific target organ toxicity [repeated exposure] - Category 2 Hazardous to the aquatic environment, short-term [Acute] - Category 1 Hazardous to the aquatic environment, long-term [Chronic] - Category 2 Hazard to soil organisms
	Reproductive toxicity - Category 1B Specific target organ toxicity [repeated exposure] - Category 2 Hazardous to the aquatic environment, short-term [Acute] - Category 1 Hazardous to the aquatic environment, long-term [Chronic] - Category 2

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AZARD STATEMENT[S]	H302: Harmful if swallowed.
	H315: Causes skin irritation.
	H317: May cause an allergic skin reaction.
	H318: Causes serious eye damage.
	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	H350: May cause cancer.
	H360: May damage fertility or the unborn child
	H373: May cause damage to organs through prolonged or repeated exposure
	H400: Very toxic to aquatic life.
	H411: Toxic to aquatic life with long lasting effects.
	H421: Very toxic to the soil environment
	H431: Very toxic to terrestrial vertebrates
HS PICTOGRAMS:	
	DANGER
Signal Word:	Dainger
Pictogram:	
	GHS05 GHS07 GHS08 GHS09
	GU202 GU207 GU208 GU209
RECAUTIONARY STATEMENT(S):	
Prevention:	P202: Do not handle until all safety precautions have been read and understood.
1 i creitioni	P260: Do not breathe dust/fumes/gas/mist/vapours/spray.
	P264: Wash hands thoroughly after handling.
	P270: Do not eat, drink or smoke when using this product.
	P272: Contaminated work clothing should not be allowed out of the workplace.
	P273: Avoid release to the environment.
	P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
	P284: [In case of inadequate ventilation] wear respiratory protection.
Response:	P310: Immediately call a POISON CENTER/doctor
	P314: Get medical advice/attention if you feel unwell.
	P321: Specific treatment (see label).
	P330: Rinse mouth.
	P331: Do NOT induce vomiting.
	P391: Collect spillage.
	P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor//if you feel unwell.
	P302+P352: IF ON SKIN: Wash with plenty of water
	P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for
	breathing.
	P308+P313: If exposed or concerned: Get medical advice/attention.
	P332+P313: If skin irritation occurs: Get medical advice/attention.
	P337+P313: If eye irritation persists get medical advice/attention.
	P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER/doctor
	P362+P364: Take off contaminated clothing and wash it before reuse.
	P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present
	and easy to do – continue rinsing.
Storage:	P405: Store locked up.
-	
Disposal:	P501: Dispose of contents/container in accordance with local/regional/national/international regulation.
Other Hazards:	No data available

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COMPONENT		CAS No.	CONCENTRATION	HAZARD CODES
Zinc Sulphate		7746-19-7	<58.00%	6.1D, 6.4A, 6.9B, 9.1A, 9.2C, 9.3C
Cobalt Sulphate		10026-24-1	<2.00%	6.1D, 6.5A, 6.5B, 6.7B, 6.8B, 9.1A 9.3B
Copper Glycinate		n/a	<26.00%	6.1D, 6.3A, 8.3A, 9.1A, 9.1B
-		in less than 1% in concentration	Balance	
(or 0.1% for carcinogens, repro	-	itory sensitisers) may vary. Trace quantities of impu	ritios aro also likoly	
		may vary. Trace quantities of impu		
		Section 4: FIRST AID MEASURE	ES	
AID MEASURES				
ult the National Poisons Centre o	n 0800 POISON (0800 764	1766) or a doctor immediately in ev	very case of suspected poi	soning.
nhalation:	If Inhalation of proc			
		t from area of exposure – avoid bec ninated clothing and loosen remain		
		o assume comfortable position and		1.57
		ency airway support if required	Reep warm and rested.	
	 If breathing is s 	hallow or has stopped ensure airwa	ay is clear and apply resus	citation.
	 Seek medical h 	elp without delay		
ngestion:	If ingestion occurs:			
	DO NOT induce	ith Water and then drink plenty of v	water cook modical attent	tion
		tact the National Poisons Centre on		
		thing by mouth to an unconscious p	· · ·	
	Seek medical a	ssistance immediately		
kin:	If skin contact occu	rs:		
	Remove all cont	taminated clothing immediately		
	 Wash affected a 	area thoroughly with water		
	Seek immediat	e medical assistance if irritation oc	curs.	
ye:	If this product come	es in contact with eyes:		
		old eyelids open and flush the eye co	, .	
		ng until advised to stop by Poisons	Information Centre or a de	octor, or for at least 15 minutes to
	prevent permai Bemove contact	t lenses if present and easy to do.		
	Seek medical a			
dvice to Doctor:	Treat symptomatica	ally. Refer to National Poisons & Ha	zardous Chemicals Inform	ation Centre 0800 764 766
	Sec	ction 5: FIRE FIGHTING MEASL	JRES	
GUISHING MEDIA	_ These is a second	dattan an barrent statu	he wood	
material is involved in fire use:		riction on type of media which may g media suitable for surrounding fire		aterials
		de or suitable dry chemical extingui		
	 Water Fog or Wa 			
	 Do not use water 	rjets		
IC HAZARDS				
lazards of Combustion:	Decomposes on hea	ating and may emit toxic fumes incl	uding those of carbon dio	kide and Oxides of Copper and Zinc
e to Firefighters				ES
ire Fighting	 Alert Fire Brigade 	e and tell them location and nature	of hazard	
0 0	_	ned breathing apparatus plus suitab		
		from entering drains and water cou	ırses	
		-		
		procedures suitable for surrounding	area	

Reference:

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Protective Equipment:	 Fire fighters should wear a positive pressure self-contained breathing apparatus [SCBA] protective firefighting clothing [includes firefighting helmet, coat, trousers, boots and gloves] chemical splash suit
Fire/Explosion Hazard:	Decomposition may produce toxic fumes of: Carbon dioxide and Oxides of Copper and Zinc
Hazchem Code:	22
	Section 6: ACCIDENTAL RELEASE MEASURES
PERSONAL PRECAUTIONS	Wear suitable protective clothing, See section 8
ENVIRONMENTAL PRECAUTIONS	Do not allow container or product to enter drains, sewers, streams or ponds. If contamination occurs advise local emergency services See Section 12
Spills & Containment	
Minor Spill	Environmental Hazard – Contain Spill
	 Allow only trained personnel wearing appropriate protective equipment to be involved in spill response. Avoid accidents, clean up immediately. Increase ventilation. Avoid walking through spilled product. Isolate the danger area. Use clean, non-sparking tools and equipment. Mechanically collect as much of the spill as possible
Major Spill	 Shut off all possible sources of ignition Medium Hazard Environmental Hazard – Contain Spill CAUTION: Advise personnel in area / surrounding area Contact Emergency Services [111], inform them of location and nature of hazard Allow only trained personnel wearing appropriate protective equipment to be involved in spill response.
DISPOSAL	 Reuse if possible Spill on areas other than pavement, dirt or sand may be handled by removing the affected soils and placing into approved containers Transfer to suitable, labelled, corrosion-resistant containers and dispose of promptly as hazardous waste. Dispose of in accordance with local and national regulations
	Section 7: HANDLING AND STORAGE
HANDLING PRECAUTIONS	
Safe Handling	 Ensure an eye bath and safety shower are available and ready to use. Avoid Personal contact, including inhalation Wear protective clothing when risk of exposure occurs Use in well ventilated area Keep out of reach of children
	Certified Handler:Not requiredTracking:Not requiredRecord Keeping:Not required
TORAGE PRECAUTIONS	
Suitable Container:	Store in manufacturers original packaging
Safe Storage:	 Store in original containers Keep containers closed when not in use Store in a cool, dry, well ventilated place Keep out of direct sunlight. Store away from sources of heat or ignition. Check regularly for spills.
	Store away from incompatible materials, foodstuff and containers
Storage Incompatibility:	Strong Acids
o 1 <i>i</i>	

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Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application.

CONTROL PARAMETERS

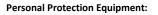
Ingredient Data:

Source	Ingredient	TWA	STEL	Notes
NZ Workplace Exposure	Cobalt Sulphate	0.05 mg/m ³		
Standards [WES]	Copper Glycinate [as copper]	0.2 mg/m ³		
Particulates not otherwise	classified	10mg/m ³	Not Available	Inspirable dust
Particulates not otherwise classified		3mg/m ³	Not Available	Dust

EXPOSURE CONTROLS

Engineering Controls:

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Welldesigned engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection



	Hand Eye Protective Respirator Foot
	Protection Protection Clothing Protection Protection
Eye & Face Protection:	Chemical goggles
	 Restrict use of contact lenses
Skin Protection:	 Wear chemical resistant gloves
	Always wash hands before eating, drinking or using facilities
	Protective footwear
Respiratory Protection:	 Particulate. [AS/NZ 1716, EN 143:2000 & 149:001, ANSI Z88 or national equivalent]

Respiratory Protection:

Body Protection:

Other Protection:

- Overalls
 - Barrier cream
 - Eyewash Unit

Avoid strong acids

	Section 9: PHYSIC	AL AND CHEMICAL PROPERTIES		
Appearance:	Powder	Vapour Density [Air=1]:	n/a	12
Physical State:	Solid	R <mark>e</mark> lative Density [Water=1]:	n/a	
Odour:	Odourless	Auto Ignition Temp [°C]:	Not self-igniting	
Odour Threshold:	n/a	Decomposition Temp:	>825°C	
pH [1% Solution]:	n/a	Viscosity [cSt]:	n/a	
Melting Point / Freezing Point:	n/a	Molecular Weight [g/mol]:	n/a	
Initial Boiling Point / Range:	n/a	Taste:	n/a	
Flash Point [°C]:	n/a	Explosive Properties:	Not explosive	
Evaporation Rate:	n/a	Oxidising Properties:	Not an oxidiser	
Flammability:	n/a	Surface Tension [mN/m]:	n/a	
Upper Explosive Limit [%]:	Not explosive	Volatile Component [%vol]:	n/a	
Lower Explosive Limit [%]:	Not explosive	Gas Group:	n/a	
Vapour Pressure [kPa]:	Negligible	VOC g/l:	n/a	
Solubility in water [g/l]:	mostly soluble			
	Section 10: ST	ABILITY AND REACTIVITY		
Stability:	Product is stable under nor	mal conditions of use, storage and temperature		(FI)
Reactivity:	None known			
Conditions to avoid:	Moisture, Heating above 82	25°C		

Incompatibility: Hazardous Decomposition:

Product Name: Reference:

BPM – Optisolve Goat IHL-SDS222

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May release Carbon Dioxide, Oxides of Coper and Zinc on decomposition

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Section 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL EFFECTS

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion:	Harmful if swallowed. Swallowing car	n result in nausea, vomiting, diarrhoe	a, and abdominal pa	in.
Inhalation:	Dust may cause irritation to respirato	ry tract		
Skin:	Irritating to skin			
Eye:	May cause serious damage to eyes			
Chronic Effects:	Some constituents are suspected care	cinogens. May cause human reprodu	ctive or developmen	tal issues
Acute Toxicity:	✓	Carcinogenic:	✓	
Skin Irritation/ Corrosion:	\checkmark	Reproductive Effects:	✓	
Serious Eye Damage/Irritation:	\checkmark	Specific Target Organ – SE:	×	
Respiratory / Skin Sensitiser:	\checkmark	Specific Target Organ – RE:	✓	
Mutagenic:	×	Aspiration Hazard:	×	
Legend:	 ⊗ Data not available to make classification ✓ Data Available to make classification × Data available but does not fill criteria for classification 	on		

TOXICOLOGICAL DATA:	No LD50 data available for the product. However, Exposure Standard(s) for constituent(s):
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Product	Toxicity	Irritation	
Cobalt Sulphate	Oral [Rat] LD50 582 mg/kg	No data available	
Zinc Sulphate	Oral [Rat] LD50 574 to 2949 mg/kg	Irritation to skin	
	Oral [Rat] LD50 482 mg/kg	Invitant	100
Copper Glycinate	Dermal [Rat] LD50 >2000 mg/kg	Irritant	

Section 12: ECOLOGICAL INFORMATION

Avoid contaminating waterways

Ecotoxicity: Bioaccumulation

ECOLOGICAL DATA:

ogical Data: No LC50 data available for the product. However, Exposure Standard(s) for constituent(s):				
Product	Endpoint	Duration [hr]	Species	Value
	LC50	96	Fish	2.4 mg/l
Zinc Sulphate	EC50	48	Da <mark>p</mark> hnia	0.56 mg/l
	EC50	72	Algae	0.05 – 0.36 mg/l
	LC50	96	Oncorhynchus mykiss	0.0366 mg/l
Copper Glycinate	EC50	48	Ceriodaphnia dubia	0.0313 mg/l
	EC50	72	Pseudokirchneriella subcapitata	0.0134 mg/l

Disposal:

Section 13: DISPOSAL INFORMATION

Refer to local government authority for disposal recommendations. Dispose of contents/container in accordance with local/regional/national/international regulations. Empty containers must be either rendered totally unusable, or if to be recycled for use, decontaminated by rinsing thoroughly with water. Rinsing water needs to be disposed of carefully

The following controls should be considered:

- Reduction
- Reuse
- Recycle
- Disposal

Disposal of materials or packaging must be carried out in accordance with Hazardous Substances Regulations 2001



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Section 14: TRANSPORT INFORMATION

LABELLING REQUIREMENTS					
Label: Marine Pollutant:	Yes				
Hazchem:	22				
LAND / AIR / SEA TRANSPORT	Regulat	ed for transport of Dangerous Goods [UN]	0	
UN Number:	3077				
Proper Shipping Name:	Environ	mentally Hazardous Substance, Solid, N.O	.S. [Contains Copper Glycinate, Zinc Sulphate]		
DG Class:	9				
Subsidiary Class:	n/a				
Packing Group:	Ш				
Environmental Hazard:	Yes				
Other Information:	None a	vailable			
REGULATIONS		Section 15: REGULATORY INFORM	ATION		
EPA Approval Number:	HSR002	2521			
Group Standard:	Animal	Nutritional and Animal Care Products Gro	up S <mark>tandar</mark> d 2020		
HSNO Classification:	6.1D:	Substances that are acutely toxic - Harm	nful		
	6.3A:	Substances that are irritating to the skin			
	6.4A: 6.5B:	Substances that are irritating to the eye Substances that are contact sensitizers			
	6.7B:	Substances that are suspected human c	arcinogens		
	6.8A:				
	6.9B:	Substances that are harmful to human t	5 5 J		
	8.3A: 9.1A:	Substances that are corrosive to ocular Substances that are very ecotoxic in the			
	9.2C:	Substances that are harmful in the soil e	•		
	9.3C:	Substances that are harmful to terrestri	al vertebrates		
				0	
Hazard Class	CI	osed Container Controls	Open Container Controls		
Not required	N	ot required	Not required	~	

Not required

TRACKING REQUIREMENTS

Not applicable

Product Name:

Reference:

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Section 16: OTHER INFORMATION

ABBREVIATIONS

ACVM: Approval Code: CAS Number EC50: EPA: GHS: HAZCHEM Code: HSNO: HSR Number: IARC: LEL/UEL: LD50: LC50: NOEC: NZIOC: SDS [MSDS]: STEL: TWA:	Agricultural Compounds and Veterinary Medicines HSNO Approval number for Group Standard 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] Environmental Protection Authority [New Zealand] Globally Harmonised System of Classification and Labelling of Chemicals Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters Hazardous Substances and New Organisms [Act and Regulations] HSNO Approval number for Group Standard International Agency for Research on Cancer Lower Explosive Limit / Upper Explosive Limit Lethal Dose 50% - concentration in air which is fatal to 50% of a test population [Rats] Lethal Concentration 50% - concentration in air which is fatal to 50% of a test population [Rats] No Observed Effect Concentration New Zealand Inventory of Chemicals Safety Data Sheet or Material Safety Data Sheet Short Term Exposure Limit – The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed i any 15-minute period, provided the TWA is not exceeded Time Weighted Average – generally referred to WEES average over typical workday [8 hours, 5 days a week]. The WES relates to exposu that has been measured by personal monitoring using procedures that gather air samples in the workers breathing zone.	
TWA: UN Number: WES:		re
	work hours	

REFERENCES

Data:	Unless otherwise stated comes from the EPA HSNO chemical classification information database [CCID]
Controls:	EPA notices www.epa.govt.nz, Health & Safety at Work [Hazardous Substances] Regulations 2017, www.legislatin.govt.nz
WES:	The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available on their website – www.worksafe.govt.nz
Other References	: Suppliers SDS, EU ECHA, ingredients SDS's

This Safety Data Sheet was updated on the date shown at the bottom right of page, and supersedes all previous versions.

The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material. The information is provided in good faith based on current knowledge and experience. No warranty with regard to the product properties is expressed or implied.

All reasonable care has been taken to ensure that the information and advice contained herein are from sources believed to be reliable and to represent the most up-to-date knowledge available at the given Review Date [bottom right of pages]. No liability is assumed for damages related to the use or misuse of this substance.

All chemical materials may present unknown hazards as people have varying degrees of sensitivity to chemicals. Therefore, this product should be used with caution. The information herein is given in good faith, but no warranty, express or implied is made.

END OF SAFETY DATA SHEET

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