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

1.1 Product identifier

Trade	name	

Unique Formula Identifier (UFI)	: RHU2-00DP-M00H-U655

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

: Vitanica® P3

Use of the Sub-	:	Fertiliser
stance/Mixture		

1.3 Details of the supplier of the safety data sheet

Company	:	COMPO EXPERT GmbH Krögerweg 10 D-48155 Münster
Telephone	:	+49 (0) 251 29 79 81 – 000
Telefax	:	+49 (0) 251 29 79 81 - 111
E-mail address of person responsible for the SDS	:	info@compo-expert.com

1.4 Emergency telephone number

GBK GmbH - Global Regulatory Compliance - 24h Telephone:+49 (0) 6132 - 84463 Schweiz/Suisse/Svizerra: Tox Info Suisse Telephone:145

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)					
Eye irritation, Category 2	H319: Causes serious eye irritation.				

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)Hazard pictograms



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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Signa	l word	:	Warning	
Hazard statements		:	H319	Causes serious eye irritation.
Preca	utionary statements	:	Prevention P264 P280	: Wash skin thoroughly after handling. Wear eye protection/ face protection.
			Response: P305 + P35 P337 + P31	 1 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 3 If eye irritation persists: Get medical advice/ attention.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature	: Inorganic fertiliser
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Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
Mono-potassium phosphite	13977-65-6	Eye Irrit. 2; H319	>= 20 - < 30
	604-162-9		
	01-2119988836-13-		
	0022		

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

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according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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If inhaled		:	If breathed in, move person into fresh air. In the case of inhalation of aerosol/mist consult a physician if necessary.		
In cas	e of skin contact	:	Wash off imme	diately with soap and plenty of water.	
In cas	e of eye contact	:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. If eye irritation persists, consult a specialist.		
lf swa	llowed	:	Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting.		
	mportant symptoms a	and e		-	
Risks		:	Causes seriou	s eye irritation.	
	•	e mec		and special treatment needed	
Treatr	nent	:	Treat symptom	atically.	
	ble extinguishing media table extinguishing	:	Carbon dioxide Dry powder Sand High volume w		
2 Specia	Il hazards arising fror	n the	substance or	mixture	
Specil fightin	fic hazards during fire- g	:	courses.	n-off from fire fighting to enter drains or water	
Hazar ucts	dous combustion prod	- :	No hazardous	combustion products are known	
3 Advice	e for firefighters				
	al protective equipment efighters	t :	Wear self-cont essary.	ained breathing apparatus for firefighting if ne	
Furthe	er information	:		nd contaminated fire extinguishing water mus in accordance with local regulations.	



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective	e equipment and emergency procedures
Personal precautions :	Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid formation of aerosol. Do not breathe vapours or spray mist. For personal protection see section 8. For disposal considerations see section 13.
6.2 Environmental precautions	
Environmental precautions :	Do not flush into surface water. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel,
		acid binder, universal binder, sawdust).

6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Advice on safe handling : Avoid formation of aerosol. Do not breathe vapours or spray mist. Avoid contact with skin and eyes. Wear personal protective equipment. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations. Advice on protection against : No special precautions required. fire and explosion Keep away from food, drink and animal feedingstuffs. Wash Hygiene measures 1 hands before eating, drinking, or smoking. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage	:	Store in a receptacle equipped with a vent.
areas and containers		



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	Advice on common stor	age :	Keep away from	food, drink and animal feedingstuffs.
:	Storage class (TRGS 51	0) :	12	
	Recommended storage perature	tem- :	5 - 35 °C	
	Further information on s age stability	tor- :	Protect from frost	, heat and sunlight.
	pecific end use(s) Specific use(s)	:	Not relevant	

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipmen	t
Eye/face protection :	Safety glasses with side-shields conforming to EN166
Hand protection Material : Break through time :	Chemical resistant gloves made of butyl rubber or nitrile rub- ber category III according to EN 374. > 480 min
Glove thickness : Directive :	> 0,3 mm Equipment should conform to EN 374
Remarks :	The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protec- tive glove. As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use.
Skin and body protection :	Long sleeved clothing
Respiratory protection :	Do not breathe vapours or spray mist. In the case of dust or aerosol formation use respirator with an approved filter. Equipment should conform to EN 14387
Filter type :	Combined particulates, inorganic and acidic gas/vapour, am- monia/amines and organic vapour type (ABEK-P)



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Prote	ctive measures	practice.	ordance with good industrial hygiene and safety nated clothing before re-use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state		liquid
Colour	:	green
Odour	:	none
Melting point/range	:	ca5 °C
Boiling point/boiling range	:	ca. 110 °C
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	not determined
Auto-ignition temperature	:	does not ignite
Decomposition temperature	:	ca. 130 °C
рН	:	4,5 (20 °C)
Solubility(ies) Water solubility	:	soluble
Partition coefficient: n- octanol/water	:	Not applicable

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Den	sity	: 1,235 g/cm³ (20 °	C)
0.2 00	r information losives	: Not explosive	
Oxic	lizing properties	: The substance or	mixture is not classified as oxidizing.
Flan	nmability (liquids)	: Will not burn	
Self	ignition	: not auto-flammab	le

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : Strong sunlight for prolonged periods. Do not allow evaporation to dryness.

10.5 Incompatible materials

Materials to avoid : Incompatible with bases.

10.6 Hazardous decomposition products

Nitrogen oxides (NOx)

ammonia

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Based on available data, the classification criteria are not met.



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Com	oonents:		
Mono	-potassium phosphite	e:	
Acute	oral toxicity		nale): > 2.000 mg/kg irective 96/54/EC B.1tris
Acute	inhalation toxicity	: Assessment: T tion toxicity	he substance or mixture has no acute inhala-
Acute	dermal toxicity	· · ·	ile and female): > 5.000 mg/kg D Test Guideline 402
Skin	corrosion/irritation		
Based	d on available data, the	classification criteria	a are not met.

Components:

Mono-potassium phosphite:

Assessment	No skin irritation
79969911611	INU SKIITIITILALIUT

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

Mono-potassium phosphite:

Species	:	Bovine cornea
Assessment	:	Irritating to eyes.
Method	:	OECD Test Guideline 437
GLP	:	yes

Respiratory or skin sensitisation

Skin sensitisation

Based on available data, the classification criteria are not met.

Respiratory sensitisation

Based on available data, the classification criteria are not met.

Components:

Mono-potassium phosphite:

Species	:	Mouse
Assessment	:	Does not cause skin sensitisation.
Method	:	Regulation (EC) No. 440/2008, Annex, B.42 (LLNA)
GLP	:	yes



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Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Components:

Mono-potassium phosphite:

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

Carcinogenicity

Based on available data, the classification criteria are not met.

Components:

Mono-potassium phosphite:

Carcinogenicity - Assess- : Not classifiable as a human carcinogen. ment

Reproductive toxicity

Based on available data, the classification criteria are not met.

Components:

Mono-potassium phosphite:

Reproductive toxicity - As- : No toxicity to reproduction sessment

No effects on or via lactation

STOT - single exposure

Based on available data, the classification criteria are not met.

Components:

Mono-potassium phosphite:

Assessment

The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Based on available data, the classification criteria are not met.

Components:

Mono-potassium phosphite:

Assessment

: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.



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Aspiration toxicity

Based on available data, the classification criteria are not met.

Components:

Mono-potassium phosphite:

No aspiration toxicity classification

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Mono-potassium phosphite:	
Toxicity to fish :	LC50 (Danio rerio (zebra fish)): > 200 mg/l End point: mortality Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other : aquatic invertebrates	NOEC (Daphnia magna (Water flea)): > 200 mg/l End point: Immobilization Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic : plants	NOEC (Desmodesmus subspicatus (Scenedesmus subspi- catus)): > 200 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes
Toxicity to microorganisms :	EC50 (activated sludge): > 1.000 mg/l Exposure time: 3 h



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		Test Type: sta Method: OEC GLP: yes	itic test D Test Guideline 209
	istence and degrada ata available	bility	
	ccumulative potentia ata available	I	
	ility in soil ata available		
12.5 Resi	ults of PBT and vPvB	assessment	
Prod			
Assessment :		to be either pe	e/mixture contains no components considered ersistent, bioaccumulative and toxic (PBT), or t and very bioaccumulative (vPvB) at levels of r.
<u>Com</u>	ponents:		
Mone	o-potassium phosphi	te:	
Assessment :			not persistent, bioaccumulative, and toxic (PBT). not very persistent and very bioaccumulative
12.6 Endo	ocrine disrupting pro	perties	
Prod	uct:		
Asse	ssment	ered to have e REACH Article	e/mixture does not contain components consid- endocrine disrupting properties according to e 57(f) or Commission Delegated regulation 00 or Commission Regulation (EU) 2018/605 at or higher.
	e r adverse effects ata available		

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
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Product	:	Do not flush into surface water or sanitary sewer system. In accordance with local and national regulations.
Contaminated packaging	:	Empty remaining contents. Empty containers should be taken to an approved waste han- dling site for recycling or disposal.



	14: Transport info		Empty container	
	14: Transport info			rs retain residue and can be dangerous.
SECTION		orma	tion	
14.1 UN nı	umber or ID number			
ADN		:	Not regulated as	s a dangerous good
ADR		:	Not regulated as	s a dangerous good
RID		:	Not regulated as	s a dangerous good
IMDG		:	Not regulated as	s a dangerous good
IATA_	_P	:	Not regulated as	s a dangerous good
14.2 UN pı	roper shipping name			
ADN		:	Not regulated as	s a dangerous good
ADR		:	Not regulated as	s a dangerous good
RID		:	Not regulated as	s a dangerous good
IMDG		:	Not regulated as	s a dangerous good
IATA_	_P	:	Not regulated as	s a dangerous good
14.3 Trans	sport hazard class(es	5)		
ADN		:	Not regulated as	s a dangerous good
ADR		:	Not regulated as	s a dangerous good
RID		:	-	s a dangerous good
IMDG		:	-	s a dangerous good
IATA_	_P	:	Not regulated as	s a dangerous good
14.4 Packi	ing group		-	
ADN		:	Not regulated as	s a dangerous good
ADR		:	-	s a dangerous good
RID		:	0	s a dangerous good
IMDG		:	-	s a dangerous good
ΙΑΤΑ	(Cargo)	:	0	s a dangerous good
	_P (Passenger)	:	-	s a dangerous good
	onmental hazards		-	
Not re	gulated as a dangero	us go	od	
14.6 Speci	ial precautions for us	ser		

Not applicable

14.7 Maritime transport in bulk according to IMO instruments



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Regulatory basis Remarks		: IMSBC Code : Product is not a	allowed to be transported in bulk.	

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	: Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable
Seveso III: Directive 2012/18/EU of the Euro- pean Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	Not applicable
Water hazard class (Germa- : WGK 1 slightly hazar ny) Classification accordi	dous to water ng to AwSV, Annex 1 (5.2)

15.2 Chemical safety assessment

Not relevant

SECTION 16: Other information

Full text of H-Statements			
H319	:	Causes serious eye irritation.	
Full text of other abbreviations			

Eye Irrit. : Eye irritation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regula-



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tion (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Eye Irrit. 2

H319

Classification procedure:

Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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