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SEC	TION 1: Id	entification of th	e substance/mixt	ure and of the com	pany/undertaking
1.1.	product id	entifiers			
		(manufacturer/supp on of the substance de:		P12004 WUXAL Multimicro	Fluid
1.2.	Relevant i	dentified uses of t	he substance or mi	xture and uses advis	ed against
	Relevant i Fertilizers	dentified uses			
1.3.			safety data sheet		
	AGLUKON	Spezialdünger Gm andstraße 199	orter/downstream u bH & Co. KG	ser/distributor) Telephone: +49 (0) Telefax: +49 (0) 211	
	Dept. resp	onsible for inform	ation:		
	E-mail (cor	npetent person)		reach@aglukon.cor	n
1.4.	GIZ Mainz, Germany	y telephone numb POISON CENTER		Tel.: +49 (0) 6131 1	
		in English and Gei			
SEC	TION 2: Ha	azards identificat	tion		
2.1.	Classificat	-	Regulation (EC) No	1272/2008 [CLP] o regulation (EC) No 1	272/2008 [CLP].
	•	/ H315 1 / H318 ronic 2 / H411	Corrosive to metal Skin corrosion/irrita Serious eye damag Hazardous to the a	ation	May be corrosive to metals. Causes skin irritation. Causes serious eye damage. Toxic to aquatic life with long lasting effects.
2.2.	Label elen		lation (EC) No. 407		
	Labelling a		lation (EC) No. 127	2/2008 [CLP]	
			Danger		
	P273 P280 P302 + P33 P305 + P33 P310 P390 contains :	May be Causes Causes Toxic to Avoid re Wear p 52 IF ON S 51 + P338 IF IN E easy to Immedi Absorb zinc sul iron (III) ntal Hazard inform	SKIN: Wash with pler YES: Rinse cautious do. Continue rinsing ately call a POISON spillage to prevent n phate monohydrate sulfate hation (EU)	g lasting effects. ment. protection/face protect ty of water/soap. ly with water for severa CENTER/doctor.	tion. al minutes. Remove contact lenses, if present and
		not app			
2.3.	Other haza	ards			



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The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Product description / chemical characterization

Description

Hazardous ingredients

EC No.	cording to Regulation (EC) No 1272/2008 [CLP] REACH No.	
CAS No. NDEX No.	Chemical name classification // Remark	Wt %
231-793-3	01-2119474684-27-XXXX	
7446-19-7	zinc sulphate monohydrate	3 < 5
030-006-00-9	Acute Tox. 4 H302 / Eye Dam. 1 H318 / Aquatic Acute 1 H400 / Aquatic Chronic 1 H410	
233-072-9		
15244-10-7	iron (III) sulfate	5 < 8
	Acute Tox. 4 H302 / Skin Irrit. 2 H315 / Eye Dam. 1 H318	
232-089-9	01-2119456624-35-XXXX	
10034-96-5	manganese sulphate monohydrate	3 < 5
025-003-00-4	Eye Dam. 1 H318 / STOT RE 2 H373 / Aquatic Chronic 2 H411	
231-847-6	01-2119520566-40-XXXX	
7758-98-7	copper sulphate pentahydrate	2 < 2,5
029-004-00-0	Acute Tox. 4 H302 / Eye Dam. 1 H318 / Aquatic Acute 1 H400 (M = 10) / Aquatic Chronic 1 H410 (M = 1)	
201-069-1	01-2119457026-42-XXXX	
5949-29-1	citric acid monohydrate	10 < 15
	Eye Irrit. 2 H319	
233-139-2	01-2119486683-25-XXXX	
10043-35-3	boric acid	1 < 2
005-007-00-2	Repr. 1B H360FD // This substance has been listed as SVHC (substance of	
	very high concern) in the Candidate List according to Article 59 of REACH.	

Full text of classification: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.

Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion

Rinse mouth thoroughly with water. Seek medical advice immediately. Keep victim calm.

- 4.2. **Most important symptoms and effects, both acute and delayed** No known symptoms to date.
- 4.3. **Indication of any immediate medical attention and special treatment needed** Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media



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The product itself does not burn.

Suitable extinguishing media:

Water spray jet, Water mist, carbon dioxide, Powder

Extinguishing media which must not be used for safety reasons: strong water jet

5.2. **Special hazards arising from the substance or mixture** Hazardous combustion products: Sulphur oxides

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1. **Personal precautions, protective equipment and emergency procedures** Provide adequate ventilation. Personal protection equipment: refer to section 8.

6.2. Environmental precautions Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Avoid contact with skin, eyes and clothes. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Follow the legal protection and safety regulations.

Precautions against fire and explosion:

No special measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Protect from heat and direct sunlight. Keep container tightly closed. Always keep in containers that correspond to the material of the original container.

Hints on joint storage

Do not store together with: Food and feedingstuffs.

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between -5 °C and 40 °C. Store carefully closed containers upright to prevent any leaks.

7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

not applicable

8.2. Exposure controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. See section 7. No additional measures necessary.

Occupational exposure controls

Respiratory protection

Usually no personal respirative protection necessary.

Hand protection

For prolonged or repeated handling the following glove material must be used: e.g. NBR (Nitrile rubber).



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Thickness of the glove material: No data available. Breakthrough time (maximum wearing time): No data available.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles: EN ISO 374.

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye protection

Wear eye glasses with side protection according to EN 166.

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1.	Information on basic physical and chemical p	properties
	Appearance: Physical state: Colour:	Liquid green
	Odour:	characteristic
	Odour threshold:	not applicable
	pH at 20 °C::	0,6
	Melting point/freezing point:	not applicable
	Initial boiling point and boiling range:	not determined
	Flash point:	not applicable
	Evaporation rate:	not applicable
	Flammability (solid, gas): Burning time (s):	not applicable
	Upper/lower flammability or explosive limits: Lower explosion limit: Upper explosion limit:	not applicable not applicable
	Vapour pressure at 20 °C::	not applicable
	Vapour density:	not applicable
	Relative density: Density at 20 °C::	1,32 g/cm³
	Solubility(ies): Water solubility (g/L) at 20 °C::	very soluble
	Partition coefficient: n-octanol/water:	see section 12
	Auto-ignition temperature:	not applicable
	Decomposition temperature:	not applicable
	Viscosity at 20 °C::	not determined
	Explosive properties:	not applicable
	Oxidising properties:	not applicable
9.2.	Other information	
	No information available.	

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.



	ording to Regulation (EU) 2015/830				THE HOUSE OF BRANDS	
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10.3.	Possibility of hazardous reactions No hazardous reaction when handled and stored according to provisions.					
10.4.		ons to avoid rom heat and direct	sunlight.			
10.5.		Incompatible materials Alkali (lye)				
10.6.	Hazardous decomposition products Does not decompose when used for intended uses. Hazardous decomposition byproducts may form with exposure to high temperatures: Sulphur oxides					
SEC	TION 11	: Toxicological in	formation			
		ation according to R on preparation itself	egulation (EC) No 1272/2008 [CLP]			
11.1.	Informa	Information on toxicological effects				
	Acute toxicity					
	WUXAL Multimicro Fluid oral, LD50, Rat: > 2000 mg/kg					
	•	zinc sulphate monohydrate oral, LD50, Rat: 1710 mg/kg ; evaluation Harmful if swallowed.				
	copper sulphate pentahydrate oral, LD50, Rat: 301 mg/kg ; evaluation Harmful if swallowed. Method: OECD 401					

Method: OECD 401 eyes: evaluation Causes serious eye damage. Calculation method. Skin: evaluation Causes skin irritation. Calculation method.

skin corrosion/irritation; Serious eye damage/eye irritation

Causes skin irritation.

Causes serious eye damage.

zinc sulphate monohydrate

eyes: evaluation Causes serious eye damage.

Method: OECD 405

iron (III) sulfate

eyes: evaluation Causes serious eye damage. Skin: evaluation Causes skin irritation.

citric acid monohydrate

eyes: evaluation Causes serious eye irritation.

Respiratory or skin sensitisation

Toxicological data are not available.

Specific target organ toxicity

Toxicological data are not available.

Aspiration hazard

Toxicological data are not available.

Practical experience/human evidence

No information available.

Overall Assessment on CMR properties

EC No. CAS No.	Chemical name	Classification according to Regulation (EC) No 1272/2008 [CLP]
233-139-2 10043-35-3	boric acid	Repr. 1B



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Remark

There is no information available on the preparation itself .

SECTION 12: Ecological information

overall evaluation

Classification according to Regulation (EC) No 1272/2008 [CLP] There is no information available on the preparation itself .

12.1. Toxicity

zinc sulphate monohydrate Daphnia toxicity, EC50, Daphnia magna: 0,56 mg/l (48 h) Algae toxicity, ErC50, Scenedesmus quadricauda: 0,52 mg/l

manganese sulphate monohydrate

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 30,6 mg/l (96 h) Daphnia toxicity, EC50, Daphnia magna: 8,3 mg/l (48 h)

Algae toxicity, ErC50, Desmodesmus subspicatus.: 61 mg/l (72 h)

copper sulphate pentahydrate

Daphnia toxicity, EC50, Daphnia magna: 0,025 mg/l (48 h)

Long-term Ecotoxicity

Toxic to aquatic life with long lasting effects.

:

WUXAL Multimicro Fluid Ecotoxicity: evaluation Toxic to aquatic life with long lasting effects. Calculation method.

12.2. Persistence and degradability

No data available.

12.3. **Bioaccumulative potential** No data available.

Bioconcentration factor (BCF)

No data available.

12.4. **Mobility in soil** No data available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal / Product

Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

List of proposed waste codes/waste designations in accordance with EWC

Agrochemical waste containing hazardous substances

packaging

020108*

Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

14.1. UN number

UN 1760

14.2. UN proper shipping name

Land transport (ADR/RID):

Corrosive liquid, n.o.s. (IRON(III) SULPHATE)



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	Sea transpo	ort (IMDG):		CORROSIVE LIQUID, N. (IRON(III) SULPHATE)	.O.S.
	Air transpor	t (ICAO-TI / IATA-D	GR):	Corrosive liquid, n.o.s. (IRON(III) SULPHATE)	
14.3.	Transport I	nazard class(es)		8	
14.4.	Packing gr	oup		111	
14.5.	Environme	ntal hazards			
	Land transp	ort (ADR/RID)		UMWELTGEFÄHRDEND	0
	Marine pollu	utant		p / COPPER SULPHATE	
14.6.	Special pre	cautions for user			
	Transport always in closed, upright and safe con case of an accident or leakage. Advices on safe handling: see parts 6 - 8 Further information			tainers. Make sure that pe	ersons transporting the product know what to do in
	Land trans	port (ADR/RID)			
	tunnel restri	ction code		E	
	Sea transp	ort (IMDG)			
	EmS-No.			F-A, S-B	
	Segregatior	n group		IMDG Code segregation their organometallic com	group 7 - heavy metals and their salts (including pounds)
	in packages	s <= 5 litres		not restricted 2.10.2.7	
	Air transpo	ort (ICAO-TI / IATA-	DGR)		
447	Turners				

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

EU legislation

REACH

SVHC/candidate list: boric acid List of substances of very high concern (SVHC) from which the substances to be included in Annex XIV of the REACH Regulation (list of substances subject to authorisation) are selected. The candidate list is established in accordance with Article 59 of the REACH Regulation.

Directive 2010/75/EU on industrial emissions

VOC-value (in g/L): 0,000

National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

15.2. Chemical Safety Assessment

For the following substances of this preparation a chemical safety assessment has been carried out:

EC No.	Chemical name	REACH No.
CAS No.		
231-847-6	copper sulphate pentahydrate	01-2119520566-40-XXXX
7758-98-7		
233-139-2	boric acid	01-2119486683-25-XXXX
10043-35-3		

SECTION 16: Other information

Full text of classification in section 3:

Acute Tox. 4 / H302	Acute toxicity (oral)
Eye Dam. 1 / H318	Serious eye damage/eye irritation

Harmful if swallowed. Causes serious eye damage.



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Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		Hazardous to the aquatic environment Hazardous to the aquatic environment	Very toxic to aquatic organisms. Very toxic to aquatic life with long lasting effects.
Skin Irrit. 2 / H315		Skin corrosion/irritation	Causes skin irritation.
STOT RE 2 / H373		STOT-repeated exposure	May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Eye Irrit.	Chronic 2 / H411 2 / H319 / H360FD	Hazardous to the aquatic environment Serious eye damage/eye irritation Reproductive toxicity	Toxic to aquatic life with long lasting effects. Causes serious eye irritation. May damage fertility. May damage the unborn child.

Further information

Classification according to Regulation (EC) No 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.