

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Printing date 03/12/2015

Reviewed on 03/12/2015

1 Identification

- · Product identifier
- · Trade name: 17-5-11-180
- · Relevant identified uses of the substance or mixture and uses advised against
- Product description PC12 Fertilizers
- · Details of the supplier of the safety data sheet

 Manufacturer/Supplier: Florikan ESA, LLC 6801 Energy Ct. Suite 100 Sarasota, FL. 34240 ph: 941-379-4048 ext 332 Fax: 941-377-3633 Email product info: Doug Cabe; dcabe@florikan.com
 Emergency telephone number: Chemtrec 800-424-9300

2 Hazard(s) identification

· Classification of the substance or mixture

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· Label elements

- · GHS label elements
- The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms Non-Regulated Material
- · Signal word Non-Regulated Material
- · Hazard statements
- Harmful to aquatic life with long lasting effects.
- Precautionary statements
 Avoid release to the environment.
 Dispace of contents/contener in constrained with local/regional/page

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Unknown acute toxicity:
- 10.7 percent of the mixture consists of ingredient(s) of unknown toxicity.
- Classification system:
- · NFPA ratings (scale 0 4)



· HMIS-ratings (scale 0 - 4)

HEALTH 0	Health = 0
	Fire = 0
REACTIVITY 0	Reactivity = 0

· Other hazards None known

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- Description: Mixture of substances listed below with nonhazardous additions.

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· Dangerous Components:			
CAS: 7487-88-9	Magnesium Sulphate	2-12%	
RTECS: OM 4500000	🚯 STOT SE 3, H335		
CAS: 7720-78-7 RTECS: NO 8510000	iron(II) sulfate	$\leq 2.5\%$	
	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319		
CAS: 1332-58-7	Kaolin	$\leq 2.5\%$	
	🚯 STOT SE 3, H335		
CAS: 10034-96-5	Manganese(II) Sulfate Monohydrate	$\leq 2.5\%$	
	🚸 STOT RE 2, H373; 🚸 Aquatic Chronic 2, H411; H401		
CAS: 7758-99-8	Copper Sulfate Pentahydrate	$\leq 2.5\%$	
RTECS: GL 8800000	Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319		
CAS: 7733-02-0	Zinc Sulphate (anhydrous)	$\leq 2.5\%$	
	 Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302 		

4 First-aid measures

· Description of first aid measures

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If swallowed and symptoms occur, consult a doctor.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed
 No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
- Dispose of the collected material according to regulations.
- · Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.



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7 Handling and storage

- · Handling:
- · Precautions for safe handling No special precautions are necessary if used correctly.
- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see section 7.

- · Control parameters
- · Components with occupational exposure limits:

7720-78-7 iron(II) sulfate

- REL Long-term value: 1 mg/m³ as Fe
- TLV Long-term value: 1 mg/m³ as Fe

1332-58-7 Kaolin

- PEL Long-term value: 15* 5** mg/m³ *total dust **respirable fraction
- REL Long-term value: 10* 5** mg/m³ *total dust **respirable fraction
- TLV Long-term value: 2* mg/m³ E; as respirable fraction

• Additional information: The lists that were valid during the creation were used as basis.

- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Breathing equipment: Not required.
- · Protection of hands: Not required.

9 Physical and chemical properties

- Information on basic physical and chemical properties
- General Information
 Appearance:
- Form:GranulateColor:Whitish• Odor:Light• Odor threshold:Not determined.• pH-value:Not applicable.
- Change in condition
 Melting point/Melting range: Not determined.



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Boiling point/Boiling range:	1689 °C (3072 °F)	
· Flash point:	Not applicable.	
 Flammability (solid, gaseous): 	Not determined.	
 Ignition temperature: 		
Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
 Danger of explosion: 	Product does not present an explosion hazard.	
 Explosion limits: Lower: Upper: 	Not determined. Not determined.	
· Vapor pressure:	Not applicable.	
 Density @ 20 °C (68 °F): Relative density Vapour density Evaporation rate 	1 g/cm ³ (8.345 lbs/gal) Not determined. Not applicable. Not applicable.	
 Solubility in / Miscibility with Water: 	Soluble.	
· Partition coefficient (n-octanol/water): Not determined.		
 Viscosity: Dynamic: Kinematic: 	Not applicable. Not applicable.	
 Solvent content: Organic solvents: 	0.0 %	
Solids content: • Other information	100.0 % No further relevant information available.	
10 Stability and reactivity		

· Reactivity No further relevant information available.

- · Chemical stability Stable under normal conditions.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

1 Toxicological information

- Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:

7758-99-8 Copper Sulfate Pentahydrate

- Oral LD50 300 mg/kg (rat)
- · Primary irritant effect:
- on the skin: No irritating effect.



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- · on the eye: No irritating effect.
- · Additional toxicological information:
- · Carcinogenic categories
- *IARC (International Agency for Research on Cancer)* None of the ingredients are listed.

Group 1 - Carcinogenic to humans

Group 2A - Probably carcinogenic to humans

Group 2B - Possibly carcinogenic to humans

- Group 3 Not classifiable as to its carcinogenicity to humans
- Group 4 Probably not carcinogenic to humans
- · NTP (National Toxicology Program)

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.

2 Ecological information

· Toxicity

- · Aquatic toxicity:
- Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes: Harmful to aquatic organisms
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- **vPvB**: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- *Recommendation:* Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

4 Transport information

- · UN-Number
- · DOT, ADR, IMDG, IATA
- · UN proper shipping name
- · DOT, ADR, IMDG, ĬATA
- Transport hazard class(es)
- · DOT, ADR, IMDG, IATA · Class

Non-Regulated Material

Non-Regulated Material

Non-Regulated Material

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Safety Data Sheet (SDS) OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

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Environmental hazards: Special precautions for user Transport in bulk according to Annex II of	Non-Regulated Material Not applicable. Not applicable. Not applicable.	
Regulatory information		
Safety, health and environmental regulatio	ons/legislation specific for the substance or mixture	
Section 355 (extremely hazardous substan	ices):	
7720-78-7 iron(II) sulfate		
Section 313 (Specific toxic chemical listing	ys):	
10034-96-5 Manganese(II) Sulfate Monohydr		
7758-99-8 Copper Sulfate Pentahydrate		
7733-02-0 Zinc Sulphate (anhydrous)		
TSCA (Toxic Substances Control Act):		
7778-80-5 potassium sulphate, containing ir	n the drystate more than 52 per cent by weight of K2O	
7487-88-9 Magnesium Sulphate		
7720-78-7 iron(II) sulfate		
1332-58-7 Kaolin		
15708-41-5 EDTA feric sodium complex		
25791-96-2 Poly(oxypropylene) triol		
7758-99-8 Copper Sulfate Pentahydrate		
7733-02-0 Zinc Sulphate (anhydrous)		
7631-95-0 Sodium Molybdate		
Proposition 65		
Chemicals known to cause cancer: None of the ingredients are listed.		
.		
Chemicals known to cause reproductive to	DXICITY for females:	
None of the ingredients are listed.		
Chemicals known to cause reproductive to	xicity for males:	
None of the ingredients are listed.		
Chemicals known to cause developmental	toxicity:	
None of the ingredients are listed.		
Carcinogenic categories		
EPA (Environmental Protection Agency)		
10034-96-5 Manganese(II) Sulfate Monohydr	ate	D
7733-02-0 Zinc Sulphate (anhydrous)		D, I,
TLV (Threshold Limit Value established by	ACGIH)	



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· NIOSH-Ca (National I	nstitute for Occupational Safety and Health)	
None of the ingredient	s are listed.	
 Hazard pictograms N Signal word Non-Reg Hazard statements Harmful to aquatic life Precautionary statem Avoid release to the er 	ulated Material with long lasting effects. nents	
National regulations:		
substances.	t to be labeled according with the prevailing version of the regulations on ha	zardous
State Right to Know		
CAS: 7778-80-5 RTECS: TT5900000	potassium sulphate, containing in the drystate more than 52 per cent by weight of K2O	≥ 85%
	Polyurethane elastomer	5-10%
	Magnesium Sulphate	2-12%
	1 STOT SE 3, H335	
CAS: 7720-78-7	iron(II) sulfate	$\leq 2.5\%$
RTECS: NO 8510000	♠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319	
CAS: 1332-58-7	Kaolin	$\leq 2.5\%$
	介 STOT SE 3, H335	
CAS: 15708-41-5	EDTA feric sodium complex	≤ 2.5%
	♠ Acute Tox. 4, H332; STOT SE 3, H335	
All ingredients are liste	d.	

All ingredients are listed.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

6 Other information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· Date of preparation / last revision 03/12/2015 / -

Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

- ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent Acute Tox. 4: Acute toxicity, Hazard Category 4 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1



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Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2 Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1 : Hazardous to the aquatic environment - AcuteHazard, Category 2 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3 • *** Data compared to the previous version altered.** SDS created by MSDS Authoring Services www.msdsauthoring.com (877) 204-9106