





SAFETY DATA SHEET ACCORDING TO 1907/2006/EC, 453/2010/EU, 2015/830/EU (REACH)

XSEED SD

Revised on / Version: 18/07/2019 / 0003

Replaces revision of / Version: 28/04/2017 / 0002

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

1.1 Product Identifier

Product Name : XSEED SD

Product description: Fertiliser, seed dressing

Product Type : Suspension

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

Relevant uses: Fertiliser

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet

Ag-Chem Africa (Pty) Ltd 288 Mundt Street Waltloo Pretoria

South Africa Tel: +27(0)12 803 0145

Fax: +27(0)12 803 8418

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number SOUTH AFRICA

Griffon Poison Information Centre (24 Hour Poisoning Emergency Helpline)

+27(0)82 446 8946



SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

CLP Regulation (EC) no 1272/2008:

Aquatic Acute 1: Hazardous to the aquatic environment, acute hazard, Category 1, H400 Aquatic Chronic 1: Hazardous to the aquatic environment, long term hazard, Category 1, H410

2.2 Label elements

CLP Regulation (EC) no 1272/2008:

Hazard pictogram(s) : Warning

Hazard statement(s) : H410 Very toxic to aquatic life with long lasting effects

Precautionary statement(s) :

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

P273 - Avoid release to the environment.

P391 - Collect spillage

P501 - Dispose of the contents/containers in accordance with the current legislation on waste treatment

2.3 Other hazards: Non-applicable

SECTION 3: Composition/information on ingredients

3.1 Substance: Non-applicable

3.2 Mixture:

Chemical description: Multi-Constituent Substance with Inert components

Components:

Chemical Name:	Zinc phosphate/ Trizinc bis (orthophosphate)	
CAS:	7779-90-0	
EC:	231-944-3	
Index:	Non-applicable	
REACH:	Non-applicable	
Concentration:	15 - 25 %	
Classification according to Regulation 1272/2008	H400 Very toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects.	

Chemical Name:	Copper Oxychloride
CAS:	1332-40-7
EC:	603-724-0
Index:	Non-applicable
REACH:	Non-applicable
Concentration:	0 - < 10%
Classification according to Regulation 1272/2008	H400 Very toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects
	H302 Harmful if swallowed H332 Harmful if inhaled.

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SECTION 4: First Aid Measures

4.1 Description of first aid measures

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product contains substances classified as hazardous for inhalation, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

By skin contact:

In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of modifications on the skin (stinging, redness, rashes, blisters) seek medical advice with this Safety data Sheet.

By eye contact:

This product does not contain substances classified as hazardous for eye contact. Rinse eyes thoroughly for at least 15 minutes with lukewarm water, ensuring that the person affected does not rub or close their eyes.

By ingestion / aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms and effects, both acute and delayed

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: In case of inhalation of decomposition products in a fire,

symptoms may be delayed. The exposed person may need to be

kept under medical surveillance for 48 hours.

Specific treatments: No specific treatment.

SECTION 5: Firefighting measures

5.1 Fire Extinguishing Media

Suitable extinguishing media:

Use any means suitable for extinguishing surrounding fire.

Unsuitable extinguishing media:

None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture:

Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

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5.3 Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing the task. Personal protection equipment must be used against potential contact with the spilt product (see section 8). Evacuate the area and keep out those who do not have protection.

6.2 Environmental precautions:

Avoid at all cost ant type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers.

The zinc phosphate substance is classified as very toxic to aquatic life Acute Category 1 and Chronic Category: Very toxic to aquatic life with long lasting effects

6.3 Methods and materials for containment and cleaning up

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in saw dust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

A. Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

- B. Technical recommendations for the prevention of fires and explosions

 Due to its non-flammable nature, the product does not present a fire risk under normal conditions of storage, manipulation and use.
- C. Technical recommendations to prevent ergonomic and toxicological risks Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.
- D. Technical recommendations to prevent environmental risks
 It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A. Technical measures for storage

Minimum Temp.: 5 °C Maximum Temp.: 30 °C Maximum time: 36 Months

B. General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

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7.3 Specific end use(s)

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

DNEL (Workers):

Zinc phosphate/ Trizinc bis (orthophosphate)			
DNEL Type	Remark		
Acute – dermal, local effects	No data available	None	
Long-Term – dermal, local effects	No data available	None	
Long-Term – dermal, systemic effects	83 mg/kg	None	
Acute – inhalation, local effects	No data available	None	
Acute – inhalation, systemic effects	No data available	None	
Long-Term – inhalation, local effects	No data available	None	
Long-Term – inhalation, systemic effects	5 mg/m ³	None	

Copper Oxychloride			
DNEL Type	Remark		
Acute – dermal, local effects	No data available	None	
Long-Term – dermal, local effects	No data available	None	
Long-Term – dermal, systemic effects	No data available	None	
Acute – inhalation, local effects	No data available	None	
Acute – inhalation, systemic effects	No data available	None	
Long-Term – inhalation, local effects	No data available	None	
Long-Term – inhalation, systemic effects	No data available	None	

DNEL (Consumer / General Population):

Zinc phosphate/ Trizinc bis (orthophosphate)			
DNEL Type Value		Remark	
Long-term – oral, systemic effects	0.83 mg/kg	None	
Acute – dermal, local effects	No data available	None	
Long-Term – dermal, local effects	No data available	None	
Long-Term – dermal, systemic effects	83 mg/kg	None	
Acute – inhalation, local effects	No data available	None	
Acute – inhalation, systemic effects	No data available	None	
Long-Term – inhalation, local effects	No data available	None	
Long-Term – inhalation, systemic effects	2.5 mg/m ³	None	

Copper Oxychloride			
DNEL Type	Value	Remark	
Long-term – oral, systemic effects	No data available	None	
Acute – dermal, local effects	No data available	None	
Long-Term – dermal, local effects	No data available	None	
Long-Term – dermal, systemic effects	No data available	None	
Acute – inhalation, local effects	No data available	None	
Acute – inhalation, systemic effects	No data available	None	
Long-Term – inhalation, local effects	No data available	None	
Long-Term – inhalation, systemic effects	No data available	None	

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PNEC:

Zinc phosphate/ Trizinc bis (orthophosphate)			
PNEC Type Value Remar			
PNEC aquatic, freshwater	0.0206 mg/L	None	
PNEC aquatic, marine water 0.0061 mg/L		None	
PNEC aquatic, intermittent release	No data available	None	
PNEC sediment, freshwater	117.8 mg/kg	None	
PNEC sediment, marine water	56.5 mg/kg	None	
PNEC soil	35.6 mg/kg	None	
PNEC sewage treatment plant	0.1 mg/L	None	
PNEC oral	No data available	None	

Copper Oxychloride			
PNEC Type	Value	Remark	
PNEC aquatic, freshwater	No data available	None	
PNEC aquatic, marine water	No data available	None	
PNEC aquatic, intermittent release	No data available	None	
PNEC sediment, freshwater	No data available	None	
PNEC sediment, marine water	No data available	None	
PNEC soil	No data available	None	
PNEC sewage treatment plant	No data available	None	
PNEC oral	No data available	None	

8.2 Exposure controls

Appropriate engineering controls:

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Eye/face protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Possible: safety glasses with side-shields

Skin protection

Hand protection:

Protective gloves against minor risks.

Body protection:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection:

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection:

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.

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Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Suspension. Colour : Blue.

Odour : Pungent odour.
Odour threshold : Not available.
pH : 5.5 - 6.5
Melting/freezing point : Not available.

Specific Gravity : 1.31

Boiling point at atmospheric pressure : Non-applicable * Vapour pressure at 20 °C : Non-applicable * Vapour pressure at 50 °C : Non-applicable * Evaporation rate at 20 °C : Non-applicable *

Product description:

Density at 20 °C : Non-applicable * Relative density at 20 °C : Non-applicable * Dynamic viscosity at 20 °C : Non-applicable * Kinematic viscosity at 20 °C : Non-applicable * Kinematic viscosity at 40 °C : Non-applicable * Vapour density at 20 °C : Non-applicable * Partition coefficient n-octanol/water 20 °C : Non-applicable * : Soluble in water. Solubility in water at 20 °C Solubility properties : Non-applicable * Decomposition temperature : Non-applicable * : Non-applicable * Melting point/freezing point

Explosive properties : Non-explosive in the presence of the following

materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible materials. organic materials.

metals, acids, alkalis and moisture.

Oxidising properties : Non-applicable *

Flammability:

Flash Point : Non Flammable (>60 °C)

Auto ignition temperature : Non-applicable *
Lower flammability limit : Non-applicable *
Upper flammability limit : Non-applicable *

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

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^{*}Not relevant due to the nature of the product, not providing information property of its hazards.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

Acids	Water	Combustive materials	Combustible materials	Others
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.6 Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced

SECTION 11: Toxicological information

11.1 Information on toxicological effects

The experimental information related to the toxicological properties of the product itself is not available.

11.2 Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A. Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosively/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

B. Inhalation (acute effect):

- Acute toxicity: Based on available data it contains substances classified as dangerous for inhalation. For more information see section 3.
- Corrosively/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

C. Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for skin contact. For more information see section 3.
- Contact with the eyes: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

D. CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

E. Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
- Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

F. Specific target organ toxicity (STOT)-time exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

- G. Specific target organ toxicity (STOT)-repeated exposure:
- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

H. Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substance:

Copper Oxychloride			
Acute toxicity Genus			
LD50 oral	1862 mg/kg	Rat	
LD50 dermal Non-applicable			
LC50 Inhalation	11 mg/L (4 h)		

SECTION 12: Ecological information

The experimental information related to the eco-toxicological properties of the product itself is not available.

12.1 Toxicity:

Zinc phosphate					
	Acute toxicity Species Genus				
LC50	0.14 – 2.6 mg Zn2+/L. (96 h)	Oncorhynchus Mykiss	Fish		
EC50	0.413 mg Zn2+/L for pH <7 (48 h)	Ceriodaphnia dubia	Crustacean		
EC50	0.136- 0.150 mg Zn2+/L (72 h)	Selenastrum capricornutum	Algae		

Copper Oxychloride				
	Acute toxicity	Genus		
LC50 - Oral	812 mg/kg	Rat		
LC50 - Oral	470 mg/kg	Mouse		
LC50 - Oral	1263 mg/kg	Chicken		

12.2 Persistence and degradability: Not available

12.3 Bio accumulative potential: Not available.

12.4 Mobility in soil: Not available

12.5 Results of PBT and vPvB assessment: Not applicable

12.6 Other adverse effects: Not available

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SECTION 13: Disposal considerations

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation EU no 1357/2014)
06 10 02	Wastes containing hazardous substances	Dangerous

Type of waste (Regulation EU no 1357/2014) HP14 Eco toxic

Waste management (disposal and evaluation)

Consult the authorized waste service manager on the assessment and disposal operations. We do not recommend disposal down the drain. See paragraph 6.2

SECTION 14: Transport information

	Land transport (ADR/RID)	Inland waterway transport (AND/ADNR)	Sea Transport (IMDG)	Air transport (ICAO-TI / IATA- DGR)
14.1 UN Number	3082	3082.	3082	3082
14.2 UN proper shipping name	Environmentally hazardous substance, liquid, N.O.S (contains Zinc phosphate)	Environmentally hazardous substance, liquid, N.O.S (contains Zinc phosphate	Environmentally hazardous substance, liquid, N.O.S (contains Zinc phosphate	Environmentally hazardous substance, liquid, N.O.S (contains Zinc phosphate
14.3 Transport hazard class(es)	9	9	9	9
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	Yes	Yes	Yes	Yes
14.6 Special precautions for user	No data available	No data available	No data available	No data available
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:	No data available	No data available	No data available	No data available

SECTION 15: Regulatory information

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

Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable

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Article 95, REGULATION (EU) No 528/2012: Non-applicable

Regulation (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc.): Non-applicable

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

Regulation (EC) No 2003/2003 of the European Parliament and of the Council of 13 October 2003 relating to fertilisers

15.2 Chemical Safety Assessment:

Not available.

SECTION 16: Other information

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) N° 1907/2006 (Regulation (EU) N° 453/2010, Regulation (EC) N° 2015/830)

Texts of the legislative phrases mentioned in section 2:

Very toxic to aquatic life

Very toxic to aquatic life with long lasting effects

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3.

CLP Regulation (EC) nº 1272/2008 (refer to section 3):

Acute Tox. 4: H302 - Harmful if swallowed Acute Tox. 4: H332 Harmful if inhaled, Aquatic Acute 1: H400 Very toxic to aquatic life

Aquatic Chronic 1: H410 Very toxic to aquatic life with long lasting effects

Classification procedure:

Aquatic Acute 1: Calculation method Aquatic Chronic 1: Calculation method

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

http://echa.europa.eu www.dguv.de/ifa/gestis-dnel http://eur-lex.europa.eu

Relevant P-, H- and EUH-phrases (number and full text)

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

P273 - Avoid release to the environment.

P391 - Collect spillage.

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P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 - Wash ... thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P285 - In case of inadequate ventilation wear respiratory protection.

P403 + P233 - Store in a well-ventilated area. Keep containers tightly closed.

P501 - Dispose of the contents/containers in accordance with the current legislation on waste treatment

P301+ P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell P304 + P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing

P342+ P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

P330 - Rinse mouth.

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H302 - Harmful if swallowed

H332 - Harmful if inhaled

Abbreviations and acronyms:

ADR - European agreement concerning the international carriage of dangerous goods by road

IMDG - International maritime dangerous goods code

IATA - International Air Transport Association

ICAO - International Civil Aviation Organisation

COD - Chemical Oxygen Demand

BOD5 - 5-day biochemical oxygen demand

BCF - Bio concentration factor

LD50 - Lethal Dose 50

CL50 - Lethal Concentration 50

EC50 - Effective concentration 50

Log-POW - Octanol-water partition coefficient

KOC - Partition coefficient of organic carbon

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Notice to reader

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