

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Mixture
Product name : CHRYZOPLUS GREY 0.8%
Product group : Trade product
Other means of identification : Authorisation No. 8541 N

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Main use category : Professional use
Use of the substance/mixture : Plant growth regulator that promotes root formation.

Title	Use descriptors
CHRYZOPLUS GREY 0.8%	SU3, SU22, PC27

Full text of use descriptors: see section 16

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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info@rhizopon.com - www.rhizopon.com

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

EUH-statements : EUH210 - Safety data sheet available on request
EUH401 - To avoid risks to human health and the environment, comply with the instructions for use
Extra phrases : SP1 Do not contaminate water with the product or its container.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients**3.1. Substances**

Not applicable

3.2. Mixtures

Comments : Mentioned percentages are in (w/w %)

CHRYZOPLUS GREY 0.8%

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Name	Product identifier	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Talc (Mg ₃ H ₂ (SiO ₃) ₄)	(CAS-No.) 14807-96-6 (EC-No.) 238-877-9 (REACH-no) 01-2120140278-58	> 50	Not classified
Triiron tetraoxide	(CAS-No.) 1317-61-9 (EC-No.) 215-277-5 (REACH-no) 01-2119457646-28	< 1,0	Not classified
4-(indol-3-yl)butyric acid	(CAS-No.) 133-32-4 (EC-No.) 205-101-5	0,8	Acute Tox. 4 (Oral), H302 Repr. 2, H361fd

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: In all cases of doubt, or when symptoms persist, seek medical attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. In all cases of doubt, or when symptoms persist, seek medical attention.
First-aid measures after skin contact	: Wash skin with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Immediately rinse with water for a prolonged period while holding the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth with water. Do NOT induce vomiting. Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide (CO₂).

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. For a large spillage, contain the spillage by bunding.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Ventilate area. Dust deposited may be vacuum cleaned. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Knock down dust with water spray jet. After cleaning, flush traces away with water.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Use only outdoors or in a well-ventilated area.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store under dry conditions. Keep away from food, drink and animal feedingstuffs. Original packaging.
- Storage temperature : 10 - 20 °C
- Packaging materials : Polypropylene. Polyethylene.

7.3. Specific end use(s)

No supplementary information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Talc (Mg ₃ H ₂ (SiO ₃) ₄) (14807-96-6)		
United Kingdom	Local name	Talc
United Kingdom	WEL TWA (mg/m ³)	1 mg/m ³ respirable dust
United Kingdom	Regulatory reference	EH40. HSE

Talc (Mg ₃ H ₂ (SiO ₃) ₄) (14807-96-6)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	2.16 mg/m ³
Acute - local effects, inhalation	3.6 mg/m ³
Long-term - systemic effects, dermal	43.2 mg/kg bodyweight/day
Long-term - local effects, dermal	4.54 mg/m ³
Long-term - systemic effects, inhalation	2.16 mg/m ³
Long-term - local effects, inhalation	3.6 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, inhalation	1.08 mg/m ³
Acute - systemic effects, oral	160 mg/kg bodyweight
Acute - local effects, inhalation	1.8 mg/m ³
Long-term - systemic effects, oral	160 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1.08 mg/m ³
Long-term - systemic effects, dermal	21.6 mg/kg bodyweight/day
Long-term - local effects, dermal	2.27 mg/cm ²
Long-term - local effects, inhalation	1.8 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	597.97 mg/l
PNEC aqua (marine water)	141.26 mg/l
PNEC aqua (intermittent, freshwater)	597.97 mg/l
PNEC aqua (intermittent, marine water)	141.26 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	31.33 mg/kg dwt
PNEC sediment (marine water)	3.13 mg/kg dwt

Triiron tetraoxide (1317-61-9)	
DNEL/DMEL (Workers)	
Long-term - local effects, inhalation	10 mg/m ³

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Gloves. Safety glasses. Protective clothing.

Hand protection:

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In case of repeated or prolonged contact wear gloves. Recommendation: Wear suitable gloves tested to EN374. Suitable material: Nitrile rubber (NBR), Neoprene. Layer thickness : No data available. Breakthrough time : refer to the recommendations of the supplier. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Use eye protection according to EN 166, designed to protect powders and dusts

Skin and body protection:

Wear suitable protective clothing. Overall.

Respiratory protection:

In case of inadequate ventilation wear respiratory protection



Other information:

Do not eat, drink or smoke when using this product. Always wash your hands immediately after handling this product, and once again before leaving the workplace.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Powder.
Colour	: Grey.
Odour	: odourless.
Odour threshold	: No data available
pH	: 9 - 11.5
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Contains 4-(indol-3-yl)butyric acid, which melts from 121°C.
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: > 93 °C
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable
Vapour pressure	: 0.01 mPa @20°C (4-(indol-3-yl)butyric acid)
Relative vapour density at 20 °C	: No data available
Relative density	: Not applicable
Density	: 0.72 g/ml
Solubility	: Water: insoluble in water (14,7 g/l @ pH7 20°C (4-(indol-3yl)butyric acid))
Log Pow	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

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10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Avoid creating or spreading dust.

10.5. Incompatible materials

Oxidizing agent. Strong acids.

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

4-(indol-3-yl)butyric acid (133-32-4)

LD50 oral	1925 g/kg mouse
LD50 dermal rat	>= 750 mg/kg

Talc (Mg₃H₂(SiO₃)₄) (14807-96-6)

LD50 oral rat	3870 - 5000 mg/kg
LD50 dermal rat	2000 mg/kg
LC50 inhalation rat (mg/l)	2.1 mg/l/4h

Triiron tetraoxide (1317-61-9)

LD50 oral rat	5000 - 10000 mg/kg
LC50 inhalation rat (mg/l)	5.05 mg/l/4h

Skin corrosion/irritation : Not classified
pH: 9 - 11.5
Serious eye damage/irritation : Not classified
pH: 9 - 11.5
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified

STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity : Not classified
Chronic aquatic toxicity : Not classified

4-(indol-3-yl)butyric acid (133-32-4)

LC50 fishes	> 90.5 mg/l 96 h, Oncorhynchus mykiss (Rainbow trout)
LC50 fish 2	186 mg/l 96 h, Cyprinus carpio (Carp)
EC50 Daphnia	57 mg/l EC50 48h - Daphnia magna [mg/l]

Talc (Mg₃H₂(SiO₃)₄) (14807-96-6)

LC50 fishes	89.581 - 110 g/l
EC50 Daphnia	36.812 g/l
EC50 72h algae (1)	7.203 g/l

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12.2. Persistence and degradability

CHRYZOPLUS GREY 0.8%

Persistence and degradability	Potentially biodegradable.
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12.3. Bioaccumulative potential

CHRYZOPLUS GREY 0.8%

Bioaccumulative potential	Bioaccumulation unlikely.
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Talc (Mg₃H₂(SiO₃)₄) (14807-96-6)

Log Pow	-9.4 @ 25 °C and pH 7
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12.4. Mobility in soil

CHRYZOPLUS GREY 0.8%

Ecology - soil	No supplementary information available.
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12.5. Results of PBT and vPvB assessment

CHRYZOPLUS GREY 0.8%

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Additional information : Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
European List of Waste (LoW) code	: 06 10 00 - wastes from the MFSU of nitrogen chemicals, nitrogen chemical processes and fertiliser manufacture

SECTION 14: Transport information

In accordance with ADR / IATA / IMDG / RID

ADR	IMDG	IATA	RID
14.1. UN number			
Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name			
Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available			

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Rail transport

Not applicable

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

15.1.1. EU-Regulations

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Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Indication of changes:

Revised safety data sheet in accordance with commission regulation (EU) No 2015/830.

Abbreviations and acronyms:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	Sewage treatment plant
vPvB	Very Persistent and Very Bioaccumulative

Data sources : ECHA (European Chemicals Agency).

Other information : **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Repr. 2	Reproductive toxicity, Category 2
H302	Harmful if swallowed
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child
EUH210	Safety data sheet available on request
EUH401	To avoid risks to human health and the environment, comply with the instructions for use
PC27	Plant Protection products
SU22	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
SU3	Industrial uses: Uses of substances as such or in preparations* at industrial sites

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product