



## OPF PolyGranular 7-0-7-S Plant Health Cure

Version No: 4.13  
Safety Data Sheet (Conforms to Regulation (EU) No 2015/830)

Chemwatch Hazard Alert Code: 0

Issue Date: 11/11/2020  
Print Date: 11/11/2020  
S.REACH.GBR.EN

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

#### 1.1. Product Identifier

Product name	OPF PolyGranular 7-0-7-S
Synonyms	Not Available
Other means of identification	Not Available

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

Product Category Consumer	PC12 Fertilizers
Relevant identified uses	Plant based fertilizer
Uses advised against	Not Applicable

#### 1.3. Details of the supplier of the safety data sheet

Registered company name	Plant Health Cure
Address	Veldweg 7 Oisterwijk 5061KJ Netherlands
Telephone	+31 137 200 300
Website	<a href="http://www.phc.eu">www.phc.eu</a>
Email	info@phc.eu

#### 1.4. Emergency telephone number

Association / Organisation	Plant Health Cure
Emergency telephone numbers	+31 137 200 301
Other emergency telephone numbers	+31 651 328 508

### SECTION 2 Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments [1]	Not Applicable
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#### 2.2. Label elements

Hazard pictogram(s)	Not Applicable
Signal word	Not Applicable

#### Hazard statement(s)

Not Applicable

#### Supplementary statement(s)

Not Applicable

#### Precautionary statement(s) Prevention

Not Applicable

#### Precautionary statement(s) Response

Not Applicable

#### Precautionary statement(s) Storage

Not Applicable

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**Precautionary statement(s) Disposal**

Not Applicable

**2.3. Other hazards**

REACH - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

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

See 'Composition on ingredients' in Section 3.2

**3.2.Mixtures**

1.CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments
1.Not Available 2.Not Available 3.Not Available 4.Not Available	70	<u>Plant based amino acids</u>	Not Applicable
1.15278-29-2* 2.Not Available 3.Not Available 4.Not Available	30	<u>Polysulfate</u>	Not Applicable
<b>Legend:</b>		1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 3. Classification drawn from C&L; * EU IOELVs available	

**SECTION 4 First aid measures****4.1. Description of first aid measures**

<b>Eye Contact</b>	If this product comes in contact with eyes: <ul style="list-style-type: none"> <li>▶ Wash out immediately with water.</li> <li>▶ If irritation continues, seek medical attention.</li> <li>▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
<b>Skin Contact</b>	If skin or hair contact occurs: <ul style="list-style-type: none"> <li>▶ Flush skin and hair with running water (and soap if available).</li> <li>▶ Seek medical attention in event of irritation.</li> </ul>
<b>Inhalation</b>	<ul style="list-style-type: none"> <li>▶ If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>▶ Other measures are usually unnecessary.</li> </ul>
<b>Ingestion</b>	<ul style="list-style-type: none"> <li>▶ Immediately give a glass of water.</li> <li>▶ First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

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

See Section 11

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

Treat symptomatically.

**SECTION 5 Firefighting measures****5.1. Extinguishing media**

- ▶ There is no restriction on the type of extinguisher which may be used.
- ▶ Use extinguishing media suitable for surrounding area.

**5.2. Special hazards arising from the substrate or mixture**

<b>Fire Incompatibility</b>	May emit toxic fumes under fire conditions.
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**5.3. Advice for firefighters**

<b>Fire Fighting</b>	▶ Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.
<b>Fire/Explosion Hazard</b>	▶ On decomposition product releases oxygen which may intensify fire. Oxides of sulfur. Magnesium oxide.

**SECTION 6 Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

See section 8

**6.2. Environmental precautions**

## OPF PolyGranular 7-0-7-S

See section 12

## 6.3. Methods and material for containment and cleaning up

Minor Spills	<ul style="list-style-type: none"> <li>▶ Clean immediately after spillage.</li> <li>▶ Avoid contact with skin and eyes.</li> <li>▶ Wear impervious gloves and safety glasses.</li> <li>▶ Prevent further leakage or spillage if safe to do so.</li> <li>▶ After spillage sweep up and place spilled material in clean, dry, sealable, labelled container or plastic bags.</li> </ul>
Major Spills	<ul style="list-style-type: none"> <li>▶ Evacuate personnel from the area and move upwind.</li> <li>▶ Notify the fire brigade and state the location and nature of the hazard.</li> <li>▶ Avoid personal contact by using protective equipment and dust respirator.</li> <li>▶ Prevent spillage into drains, sewers or water courses.</li> <li>▶ Prevent dust formation.</li> <li>▶ Sweep, scoop up. Reuse product where possible.</li> <li>▶ Place leftovers in labeled plastic bags or other waste containers. If the drains or waterways are contaminated, notify the emergency services.</li> </ul>

## 6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

## SECTION 7 Handling and storage

## 7.1. Precautions for safe handling

Safe handling	<ul style="list-style-type: none"> <li>▶ Limit all unnecessary personal contact.</li> <li>▶ Wear recommended PPE.</li> <li>▶ Avoid dust formation. Use in a well-ventilated area.</li> <li>▶ Avoid contact with incompatible materials.</li> <li>▶ When handling, <b>DO NOT</b> eat, drink or smoke.</li> <li>▶ Keep containers securely sealed when not in use.</li> <li>▶ Store in the original packaging.</li> <li>▶ Store in a cool, dry place protected from extreme conditions.</li> <li>▶ Avoid physical damage to containers.</li> <li>▶ Always wash hands with soap and water after handling.</li> <li>▶ Follow the manufacturer's storage and handling recommendations on this SDS.</li> <li>▶ The atmosphere should be monitored regularly for exposure to ensure safe working conditions are maintained.</li> </ul>
Fire and explosion protection	See section 5
Other information	No specific requirements.

## 7.2. Conditions for safe storage, including any incompatibilities

Suitable container	<p>Hygroscopic, store in a dry tightly closed container at room temperature, in a dry and well-ventilated place.</p> <ul style="list-style-type: none"> <li>▶ Lined metal tin, lined metal bucket / tin.</li> <li>▶ Plastic bucket.</li> <li>▶ Polyliner barrel.</li> </ul> <p>Packaging as advised by manufacturer.</p> <p>Check that all containers are clearly labeled and leak proof.</p>
Storage incompatibility	<p>Avoid contamination of water, foodstuffs, feed or seed.</p> <p>None known</p>

## 7.3. Specific end use(s)

See section 1.2

## SECTION 8 Exposure controls / personal protection

## 8.1. Control parameters

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment
Not Available	Not Available	Not Available

\* Values for General Population

## Occupational Exposure Limits (OEL)

## INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Not Applicable

## Emergency Limits

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
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## OPF PolyGranular 7-0-7-S

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
OPF PolyGranular 7-0-7-S	Not Available	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
Plant based amino acids	Not Available	Not Available
Polysulfate	Not Available	Not Available

## 8.2. Exposure controls

8.2.1. Appropriate engineering controls	Showers Eyewash stations Ventilation systems
8.2.2. Personal protection	
Eye and face protection	Safety glasses or goggles may be desirable when emptying containers or drums.
Skin protection	See Hand protection below
Hands/feet protection	<p>The choice of suitable glove depends not only on the material, but also on other quality characteristics that vary from manufacturer to manufacturer. When using mixtures, the resistance of the glove materials is not pre-calculatable and must be checked before use. The suitability and durability of the glove type depends on the use. Important factors in the choice of gloves include:</p> <ul style="list-style-type: none"> <li>Frequency and duration of contact</li> <li>Chemical resistance of glove material</li> <li>Glove thickness</li> <li>Agility user</li> </ul> <p>Choose gloves that meet a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).</p> <ul style="list-style-type: none"> <li>Where prolonged or frequently repeated contact may occur, gloves with a protection class 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161/10/01 or national equivalent) are recommended.</li> <li>When only a short-term contact is expected, gloves with a protection class 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS / NZS 2161/10/01 or national equivalent) are recommended.</li> </ul> <p>Assessment gloves according to ASTM F-739-96, gloves are rated as:</p> <ul style="list-style-type: none"> <li>Excellent: breakthrough time &gt; 480 min</li> <li>Good: breakthrough time &gt; 20 min</li> <li>Reasonable: breakthrough time &lt; 20 min</li> <li>Bad: glove material degrades</li> </ul> <p>Wearing gloves only over clean hands. Contaminated gloves must be replaced. After using gloves, the hands should be thoroughly washed and dried. Use of non-perfumed moisturiser is recommended. Some types of polymer gloves affect movement and should be taken into account when used for long periods of time. For general applications, gloves with a thickness greater than 0.35 mm are recommended. Polymers, suitable for protective gloves, where grinding particles are not present: polychloroprene, nitrile rubber, butyl rubber, fluorocarbon, polyvinyl chloride.</p>
Body protection	See Other protection below
Other protection	<p>No special equipment needed when handling small quantities.</p> <p><b>OTHERWISE:</b></p> <ul style="list-style-type: none"> <li>Overalls.</li> <li>Barrier cream.</li> <li>Eyewash unit.</li> </ul>

## Respiratory protection

Particulate. (AS/NZS 1716 & 1715, EN 143:2000 & 149:001, ANSI Z88 or national equivalent)

- Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.
- The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).
- Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.
- Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
- Use approved positive flow mask if significant quantities of dust becomes airborne.
- Try to avoid creating dust conditions.

## 8.2.3. Environmental exposure controls

See section 12

## SECTION 9 Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Appearance	Granular (white - black)		
Physical state	Solid	Relative density (Water = 1)	0.95

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## OPF PolyGranular 7-0-7-S

Odour	Slight	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	4-4.5	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	5000-20000 CPS
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Green
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Partly miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

## 9.2. Other information

Not Available

## SECTION 10 Stability and reactivity

10.1. Reactivity	See section 7
10.2. Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
10.3. Possibility of hazardous reactions	See section 7
10.4. Conditions to avoid	See section 7
10.5. Incompatible materials	See section 7
10.6. Hazardous decomposition products	See section 5.3

## SECTION 11 Toxicological information

## 11.1. Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.
Ingestion	The material has <b>NOT</b> been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence.
Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.
Eye	Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may cause transient discomfort characterised by tearing or conjunctival redness (as with windburn). Slight abrasive damage may also result.
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.

OPF PolyGranular 7-0-7-S	TOXICITY	IRRITATION
	Not Available	Not Available
Plant based amino acids	TOXICITY	IRRITATION
	Not Available	Not Available
Polysulfate	TOXICITY	IRRITATION
	Not Available	Not Available

## Legend:

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. \* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

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Acute Toxicity	✗	Carcinogenicity	✗
Skin Irritation/Corrosion	✗	Reproductivity	✗
Serious Eye Damage/Irritation	✗	STOT - Single Exposure	✗
Respiratory or Skin sensitisation	✗	STOT - Repeated Exposure	✗
Mutagenicity	✗	Aspiration Hazard	✗

**Legend:** ✗ – Data either not available or does not fill the criteria for classification  
 ✓ – Data available to make classification

## SECTION 12 Ecological information

## 12.1. Toxicity

OPF PolyGranular 7-0-7-S	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
Plant based amino acids	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
Polysulfate	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
<b>Legend:</b>	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data				

## 12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

## 12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients

## 12.4. Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

## 12.5. Results of PBT and vPvB assessment

	P	B	T
Relevant available data	Not Applicable	Not Applicable	Not Applicable
PBT Criteria fulfilled?	Not Applicable	Not Applicable	Not Applicable

## 12.6. Other adverse effects

No data available

## SECTION 13 Disposal considerations

## 13.1. Waste treatment methods

Product / Packaging disposal	<ul style="list-style-type: none"> <li>Do not allow to enter into surface water or drains.</li> <li>Dispose of waste according to applicable legislation and recommended by manufacturer.</li> <li>Product are non-hazardous and can be disposed by waste processing companies and don't require special attention.</li> <li>Empty packaging can be recycled with other plastic packaging or cardboard packaging. Recycling at designated waste processing companies for proper recycling.</li> </ul>
Waste treatment options	Not Available
Sewage disposal options	Not Available

## SECTION 14 Transport information

No special requirements or precautions applicable.

Marine Pollutant	NO
HAZCHEM	Not Applicable

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## OPF PolyGranular 7-0-7-S

## Land transport (ADR-RID)

14.1. UN number	Not Applicable	
14.2. UN proper shipping name	Not Applicable	
14.3. Transport hazard class(es)	Class	Not Applicable
	Subrisk	Not Applicable
14.4. Packing group	Not Applicable	
14.5. Environmental hazard	Not Applicable	
14.6. Special precautions for user	Classification code	Not Applicable
	Hazard Label	Not Applicable
	Special provisions	Not Applicable
	Limited quantity	Not Applicable
	Tunnel Restriction Code	Not Applicable

## Air transport (ICAO-IATA / DGR)

14.1. UN number	Not Applicable	
14.2. UN proper shipping name	Not Applicable	
14.3. Transport hazard class(es)	ICAO/IATA Class	Not Applicable
	ICAO / IATA Subrisk	Not Applicable
14.4. Packing group	Not Applicable	
14.5. Environmental hazard	Not Applicable	
14.6. Special precautions for user	Cargo Only Packing Instructions	Not Applicable
	Cargo Only Maximum Qty / Pack	Not Applicable
	Passenger and Cargo Packing Instructions	Not Applicable
	Passenger and Cargo Limited Quantity Packing Instructions	Not Applicable
	Passenger and Cargo Limited Maximum Qty / Pack	Not Applicable

## Sea transport (IMDG-Code / GGVSee)

14.1. UN number	Not Applicable	
14.2. UN proper shipping name	Not Applicable	
14.3. Transport hazard class(es)	IMDG Class	Not Applicable
	IMDG Subrisk	Not Applicable
14.4. Packing group	Not Applicable	
14.5. Environmental hazard	Not Applicable	
14.6. Special precautions for user	EMS Number	Not Applicable
	Special provisions	Not Applicable

## Inland waterways transport (ADN)

14.1. UN number	Not Applicable	
14.2. UN proper shipping name	Not Applicable	
14.3. Transport hazard class(es)	Not Applicable	Not Applicable
14.4. Packing group	Not Applicable	
14.5. Environmental hazard	Not Applicable	
14.6. Special precautions for user	Classification code	Not Applicable
	Special provisions	Not Applicable
	Limited quantity	Not Applicable
	Fire cones number	Not Applicable

## 14.7. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

## SECTION 15 Regulatory information

Continued...

## OPF PolyGranular 7-0-7-S

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

## Plant based amino acids is found on the following regulatory lists

Not Applicable

## Polysulfate is found on the following regulatory lists

Not Applicable

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2015/830; Regulation (EC) No 1272/2008 as updated through ATPs.

## 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## ECHA SUMMARY

Not Applicable

National Inventory	Status
Australia - AIIC	No (Polysulfate)
Australia - Non-Industrial Use	No (Polysulfate)
Canada - DSL	No (Polysulfate)
Canada - NDSL	No (Polysulfate)
China - IECSC	No (Polysulfate)
Europe - EINEC / ELINCS / NLP	No (Polysulfate)
Japan - ENCS	No (Polysulfate)
Korea - KECI	No (Polysulfate)
New Zealand - NZIoC	No (Polysulfate)
Philippines - PICCS	No (Polysulfate)
USA - TSCA	No (Polysulfate)
Taiwan - TCSI	No (Polysulfate)
Mexico - INSQ	No (Polysulfate)
Vietnam - NCI	No (Polysulfate)
Russia - ARIPS	No (Polysulfate)
<b>Legend:</b>	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

## SECTION 16 Other information

Revision Date	11/11/2020
Initial Date	30/07/2020

## Full text Risk and Hazard codes

## SDS Version Summary

Version	Issue Date	Sections Updated
3.13.1.1.1	05/11/2020	Appearance, Classification, Physical Properties, Supplier Information, Synonyms, Use

## Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

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