

# MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Trade name: POWERPHOS

Version: 10 | Date of revision: 27.10.2020 | Date of print: 27.10.2020



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

### 1.1 Product identifier

Trade name: **POWERPHOS**

CAS-No.: 68333-79-9

EC-No.: 269-789-9

REACH: 01-2120090300-70-0000

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

Liquid fertilizer for use in agriculture and horticulture.

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

Manufacturer/Supplier:

Hechenbichler GmbH, Cusanusweg 7-9, A-6020 Innsbruck, Austria.

Tel.: +43 512 29 18 10-0

Fax: +43 512 29 18 10-23

E-mail: msds@amalgerol.com

### 1.4 Emergency telephone number

Manufacturer during business hours (Monday – Thursday 7:30 – 12:00, 13:30 – 17:00; Friday 7:30 – 12:00):

+43 512 29 18 10-0

Toxification information centre Vienna (24 hours): +43 1 406 43 43

European emergency telephone number: 112

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

This product must be classified according to regulation (EC) No. 1272/2008 (CLP).

Acute Toxicity, Category 4, Acute Tox. 4

Serious eye damage / eye irritation, Category 2, Eye Irr. 2

### 2.2 Label elements

#### Labelling

Pictogram + GHS-Code



GHS07

#### Signal word:

Warning

#### Hazard Statements:

H302 Harmful if swallowed

H319 Causes serious eye irritation

**Precautionary Statements:** P264: Wash hand thoroughly after handling.

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

P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P330: Rinse mouth

P337+313: If eye irritation persists get medical advice/attention.

### 2.3 Other hazards

Not PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

# MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Trade name: POWERPHOS

Version: 10 | Date of revision: 27.10.2020 | Date of print: 27.10.2020



## 3. Composition/information on ingredients

### 3.1 Substances

Ammonium polyphosphate

60 %

CAS-No.: 68333-79-9

EC-No.: 269-789-9

Acute Tox. 4, H302: Harmful if swallowed

Eye Irr. 2, H319: Causes serious eye irritation

### 3.2 Mixtures Description

Not applicable

## 4. First aid measures

### 4.1 Description of first aid measures

**General:** Show material safety data sheet to the doctor in all cases. Remove contaminated clothing immediately.

**In case of skin contact:** Wash immediately with plenty of water and soap.

**In case of eye contact:** Immediately rinse with plenty of water for a prolonged period while holding the eyelids wide open. If irritation persists for more than 30 minutes, seek medical advice.

**In case of ingestion:** Rinse mouth and drink plenty of water. Immediately consult a doctor and show this data sheet. Do not induce vomiting.

**In case of inhalation:** Supply fresh air. If any effects occur, seek medical advice. After intensive inhalation, seek medical advice immediately.

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

Not available

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

Consult a doctor and show this safety data sheet in case of doubt or if irritations persist.

## 5. Firefighting measures

### 5.1 Extinguishing media

Adapt actions for fire extinction to local conditions.

**Suitable fire extinguishing media:** water spray jet, carbon dioxide or fire extinguishing powder.

**Unsuitable fire extinguishing media due to safety reasons:** N.A

### 5.2 Special hazards arising from the substance or mixture

The decomposition of the product can cause the formation of toxic gases, e.g.  $\text{NO}_x$  and  $\text{NH}_3$ .

### 5.3 Advice for firefighters

Use appropriate breathing apparatus. Collect contaminated water separately. Not to be disposed of via wastewater. If possible, remove undamaged container out of danger area

## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment (protective gloves, safety glasses and suitable clothing). Remove persons to safety.

### 6.2 Environmental precautions

Do not discharge into drains or rivers. Contain the spillage using bunding. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

Absorb rests into sand, kieselguhr, binders for acid, universal binders or sawdust. Wash contaminated surfaces with warm water and soap. Disposal of residues according to governmental regulations. In case of release of large quantities inform the authorities.

# MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Trade name: POWERPHOS

Version: 10 | Date of revision: 27.10.2020 | Date of print: 27.10.2020



## 6.4 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.

## 7. Handling and storage

### 7.1 Precautions for safe handling

Wear protective equipment (protective gloves, safety glasses and suitable clothing).

Do not eat, drink and smoke in work areas. Wash hands after use.

Remove clothing and protective equipment before entering eating areas.

Remove contaminated clothing and shoes. Wash clothing before reusing.

Ensure good ventilation / exhaustion at the workplace.

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

Store the product in original packaging in suitable places at temperatures between +5°C and +25°C.

Protect from frost, heat and direct sunlight.

Keep container tightly sealed.

Ensure good ventilation /exhaustion at the storage.

Store separated from food, drink and feedstuff.

Keep away from children and pets.

### 7.3 Specific end use(s)

None.

## 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Exposure limits:

DNEL limits

Long-term (workers), systemic effects, inhalation (8 hour): 18,06 mg/m<sup>3</sup>

Long-term (general population) oral: 1,28 mg/kg bodyweight/day

### 8.2 Exposure controls

#### General protection and hygiene measures:

Ensure good ventilation / exhaustion.

Keep away from food, drink and animal feed.

Take off dirty, soaked clothes immediately.

Wash hands before breaks and at the end of work.

Avoid contact with eyes and skin.

Do not breathe gases/aerosols/vapours/dust.

#### Personal protective equipment:

**Hand protection:** Wear chemical protective gloves.

**Eye protection:** Wear safety glasses with side shields according to EN 166. Wear chemical goggles or face shields if splashing is generated when handling this material.

**Skin protection:** Protective clothing.

**Respiratory protection:** No protection equipment under normal conditions of use. In case of ammonia emissions, use a facial mask with complete K2 filtrating cartridge.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance:

Aggregate state: Liquid

Colour: green to brownish

**Odour:** Inodorous

**Odour threshold:** not available

**pH-value:** 6,4

**Melting point:** -17 °C

# MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Trade name: POWERPHOS

Version: 10 | Date of revision: 27.10.2020 | Date of print: 27.10.2020



**Initial boiling point:** not available

**Flash point:** incombustible

**Evaporation rate:** not available

**Flammability:** not flammable

**Upper/lower flammability or explosive limits:** not available

**Vapour pressure at 20 °C:** not available

**Vapour density:** not available

**Relative density:** 1,38 g/cm<sup>3</sup>

**Solubility in water:** 350 g/l

**Partition coefficient (n-octanol/water):** not available

**Auto-ignition temperature:** not available

**Decomposition temperature:** not available

**Viscosity:** not available

**Explosive properties:** not explosive

**Oxidizing properties:** non-oxidizing

## 9.2 Other information

No further relevant information available.

## 10. Stability and reactivity

### 10.1 Reactivity

Stable under recommended transport or storage conditions.

### 10.2 Chemical stability

Stable under recommended transport, use and storage conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reactions under recommended transport, use and storage conditions.

### 10.4 Conditions to avoid

Avoid humidity and heat.

### 10.5 Incompatible materials

Corrodes brass, bronze, copper, aluminium and zinc.

### 10.6 Hazardous decomposition products

Toxic vapours of Ammonia Nitrogen oxides (NO, NO<sub>2</sub>)

## 11. Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity:** harmful if swallowed

**Toxicity values:**

LD<sub>50</sub> 300-2000 mg/kg oral (rat)

LC<sub>50</sub>/4hr; 4,85 mg/l Inhalation (rat)

**Skin corrosion/irritation:** not irritating, not corrosive

**Serious eye damage/irritation:** May cause irritation.

**Respiratory or skin sensitisation:** none

**Germ cell mutagenicity:** not available

**Carcinogenicity:** not available

**Reproductive toxicity:** NOAEL/28d >1500 mg/kg bodyweight/day oral (rat)

**STOT-single exposure:** not available

**STOT-repeated exposure:** not available

**Aspiration hazard:** not available

## 12. Ecological information

### 12.1 Toxicity

Use according to good agricultural practice.

**Water toxicity:**

LC<sub>50</sub>=100g/l (Activated Sludge)

ErC<sub>50</sub>=97,1 mg/l (algae)

NOEC chronic =97,1 mg/l (algae)

## MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Trade name: POWERPHOS

Version: 10 | Date of revision: 27.10.2020 | Date of print: 27.10.2020



### 12.2 Persistence and degradability

Not available

### 12.3 Bioaccumulative potential

Not available

### 12.4 Mobility in soil

Not available

### 12.5 Results in PBT and vPvB assessment

This substance is not identified as a PBT nor as a vPvB substance.

### 12.6 Other adverse effects

May contribute to the eutrophication of water. However, keep the product away from drains, surface and groundwater.

## 13. Disposal considerations

### 13.1 Waste treatment methods

If possible, use the whole amount of the product. Dispose of residues according to local and national guidelines of authorities. Dispose emptied containers in assigned collection points.

## 14. Transport information

### 14.1 UN-Number (ADR, ADN, IMDG, IATA)

No dangerous good in the sense of transport regulations.

### 14.2 UN proper shipping name (ADR, ADN, IMDG, IATA)

Not applicable

### 14.3 Transport hazard class(es) (ADR, ADN, IMDG, IATA)

Not applicable

### 14.4 Packing group (ADR, IMDG, IATA)

Not applicable

### 14.5 Environmental hazards

Not applicable

### 14.6 Special precautions for users

Not applicable

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## 15. Regulatory information

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

Regulation (EC) No. 1907/2006 (REACH)

Regulation (EC) No. 1272/2008 (CLP)

### 15.2 Chemical Safety Assessment

A chemical safety assessment for this product has not been carried out by the supplier.

## 16. Other information

### DISCLAIMER:

The information in this MSDS 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 MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable. By new edition of safety data sheets older are losing validity.

## MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Trade name: POWERPHOS

Version: 10 | Date of revision: 27.10.2020 | Date of print: 27.10.2020



### Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service (division of the American Chemical Society)

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

ECHA: European Chemical Agency

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

IMDG: International Maritime Code for Dangerous Goods

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: no observed adverse effect level

NOEC: no observed effects concentration

PNEC: Predicted No Effect Concentration.

PBT: Persistent, Bioaccumulative and Toxic

REACH: Registration, evaluation and authorisation of chemicals

STOT: Specific Target Organ Toxicity

vPvB: very Persistent and very Bioaccumulative