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# SuperPhos

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

SuperPhos **Product Name** 

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

Identified Use(s) Fertiliser Uses Advised Against Not known. 1.3 Details of the supplier of the safety data sheet

Manufacturer

Company Identification AIVA LTD (Aiva Fertiliser)

Address of Manufacturer Old Farm Offices

Manor Farm, Ginge, Oxfordshire, United Kingdom

Postal code **OX12 8QS** Telephone: 01234 834 997 Fax Not known.

F-mail office@aivafertiliser.co.uk

Office hours Office hours: Monday - Friday 0830 - 1700

Supplier

Company Identification Emerald Research Ltd Unit 2, Tech Box Hub Address of Supplier The AgricTech Centre

Hartpury University, Gloucestershire

United Kingdom

Postal code **GL19 9BE** 01242 506 206 Telephone: Fax Not known.

F-mail Info@emeraldresearchltd.com

Office hours: Monday - Friday 0830 - 1700 Office hours

1.4 Emergency telephone number

Emergency Phone No. 01235834997 Contact Call 111 National response centre **NHS Direct** Address

Emergency Phone No. +44 111

# SECTION 2: HAZARDS IDENTIFICATION

# 2.1 Classification of the substance or mixture

Skin Corr. 1: Causes severe skin burns and eye damage. Regulation (EC) No. 1272/2008 (CLP)

Eye Dam. 1: Causes serious eye damage.

2.2 Label elements

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

9701 PK -21-5 S B Zn Potato Ignite **Product Name** 

Hazard Pictogram(s)

GHS05

Signal Word(s) Danger

Hazard Statement(s) H314: Causes severe skin burns and eye damage.

Precautionary Statement(s) P101: If medical advice is needed, have product container or label at hand.

P103: Read label before use.

P260: Do not breathe dust/fume/gas/mist/vapours/spray. P264: Wash hands and exposed skin thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.



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P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTRE/doctor.

P321: Specific treatment (see Medical Advice on this label).

P363: Wash contaminated clothing before reuse.

P405: Store locked up.

P501: Dispose of contents in accordance with local, state or national legislation.

2.3 Other hazards

None known.

2.4 Additional Information

For full text of H/P Statements see section 16.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

## 3.1 Substances

Not applicable.

#### 3.2 Mixtures

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / REACH Registration No.	%W/M	Hazard Statement(s)	Hazard Pictogram(s)
phosphoric acid %, orthophosphoric acid %	7664-38-2	231-633-2	25.00	Skin Corr. 1B H314	GHS05
zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate)	7446-19-7	231-793-3	<5%	Acute Tox. 4 H302 Eye Dam. 1 H318 Aquatic Acute 1 H400 Aquatic Chronic 1 H410	GHS05 GHS07 GHS09
boric acid	10043-35-3	233-139-2	<5%	Repr. 1B H360FD	GHS08
Citric acid	77-92-9	201-069-1	<5%	Eye Irrit. 2 H319	GHS07

HAZARDOUS INGREDIENT(S)	CAS No.			M- factor	ATE
phosphoric acid %, orthophosphoric acid %	7664-38-2	Skin Corr. 1B Skin Irrit. 2 Eye Irrit. 2	C>= 25.00 <= 100.00 C>= 10.00 < 25.00 C>= 10.00 < 25.00		
zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate)	7446-19-7				Acute Tox. 4 (H302) : 0
boric acid	10043-35-3	Repr. 1B	C>= 5.50 <= 100.00		

Contains no non-classified vPvB substances.

Contains no non-classified substances with a Union workplace exposure limit.

For full text of H/P Statements see section 16.

# SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation Immediately call a POISON CENTRE/doctor.

Skin Contact
Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. Immediately call a POISON CENTRE/doctor.

Eye Contact
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE/doctor.

Ingestion Rinse mouth. Do NOT induce vomiting. Immediately call a POISON

CENTRE/doctor.

4.2 Most important symptoms and effects, both acute and delayed

Causes burns.

4.3 Indication of any immediate medical attention and special treatment needed

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Specific treatment (see Medical Advice on this label). Treat symptomatically.

## **SECTION 5: FIREFIGHTING MEASURES**

5.1 Extinguishing media

Suitable Extinguishing media As appropriate for surrounding fire.

Unsuitable extinguishing media None

5.2 Special hazards arising from the substance or mixture

May decompose in a fire, giving off toxic and irritant vapours.

5.3 Advice for firefighters

As appropriate for surrounding fire.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear suitable protective clothing, gloves and eye/face

protection.

6.2 Environmental precautions

This material and its container must be disposed of in a safe way.

6.3 Methods and material for containment and cleaning up

Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a

container for disposal.

6.4 Reference to other sections

See Also Section 8, 13.

## **SECTION 7: HANDLING AND STORAGE**

7.1 Precautions for safe handling

Wash hands and exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. When using do not eat, drink or

smoke

7.2 Conditions for safe storage, including any incompatibilities

Store locked up.

Storage temperature Ambient. Protect from frost.

Storage life Stable under normal conditions. Protect from sunlight.

Incompatible materials None known

7.3 Specific end use(s)

Fertiliser

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Control parameters

8.1.1 Occupational Exposure Limits

Occupational Exposure Limits							
SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note	
Orthophosphoric acid	7664-38-2		1		2		

Region United Kingdom UK Workplace Exposure Limits EH40/2005 (Fourth edition, published 2020)

Remark

8.2 Exposure controls

8.2.1. Appropriate engineering controls Ensure adequate ventilation. A washing facility/water for eye and skin cleaning

purposes should be present.

8.2.2. Personal protection equipment

Eye Protection Wear eye protection with side protection (EN ISO 16321-1).



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Skin protection Wear protective clot

Wear protective clothing and gloves: Impervious gloves (EN 374). Breakthrough time of the glove material: refer to the information provided by the gloves' producer.



Respiratory protection

Normally no personal respiratory protection is necessary.



Thermal hazards

None known.

8.2.3. Environmental Exposure Controls Avoid release to the environment.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state Liquid.
Colour Not known.
Odour Not known.
Melting point/freezing point Not known.
Boiling point or initial boiling point and Not known.

boiling range

Flammability

Lower and upper explosion limit

Flash Point

Auto-ignition temperature

Decomposition Temperature

pH

Kinematic Viscosity

Not known.

Not known.

1.8.

Not known.

Solubility Solubility (Water): Not known. Solubility (Other): Not known.

Partition coefficient n-octanol/water (log Not known.

value)

Vapour pressure Not known.

Density and/or relative density Relative density: 1.25kg/l

Relative vapour density Not known. Particle characteristics Not known.

9.2 Other information

None.

## SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

None anticipated.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

None anticipated.

10.5 Incompatible materials

Not known.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

# SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - Ingestion

Acute toxicity - Skin Contact

Acute toxicity - Skin Contact

Acute toxicity - Inhalation

Skin corrosion/irritation

Serious eye damage/irritation

Skin sensitization data

Low acute toxicity

Low acute toxicity

Non-irritant

Non-irritant

Not classified



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Germ cell mutagenicity There is no evidence of mutagenic potential.

Carcinogenicity No evidence of carcinogenicity.

Reproductive toxicity
Lactation
STOT - single exposure
STOT - repeated exposure
Aspiration hazard
Not classified
Not classified
Not classified

11.2 Information on other hazards

Not known.

## SECTION 12: ECOLOGICAL INFORMATION

## 12.1 Toxicity

Toxicity - Aquatic invertebrates Low toxicity to invertebrates.

Toxicity - Fish

Toxicity - Algae

Toxicity - Sediment Compartment

Toxicity - Terrestrial Compartment

Low toxicity to fish.

Low toxicity to algae.

Not classified.

Not classified.

12.2 Persistence and degradability

Not known.

12.3 Bioaccumulative potential

Not known.

12.4 Mobility in soil

Not known.

12.5 Results of PBT and vPvB assessment

Not known.

12.6 Endocrine disrupting properties

None known.

12.7 Other adverse effects

Not known.

## SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of contents in accordance with local, state or national legislation. Send to

a licensed recycler, reclaimer or incinerator. Dispose at suitable refuse site.

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

## **SECTION 14: TRANSPORT INFORMATION**

Not classified as hazardous for transport.

14.1 UN number or ID number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not classified as a Marine Pollutant.

14.6 Special precautions for user

Not known

14.7 Maritime transport in bulk according to IMO instruments

Not known

# **SECTION 15: REGULATORY INFORMATION**

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

European Regulations - Authorisations and/or Restrictions On Use Candidate List of Substances of Very boric acid (10043-35-3)

High Concern for Authorisation

Not listed

REACH: ANNEX XIV list of substances



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subject to authorisation

REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

mixtures and articles

Community Rolling Action Plan (CoRAP) Regulation (EU) N° 2019/1021 of the European Parliament and of the Council on persistent organic pollutants Regulation (EC) N° 1005/2009 on substances that deplete the ozone layer Regulation (EU) N° 649/2012 of the European Parliament and of the Council

concerning the export and import of hazardous chemicals **National regulations** 

Other

15.2 Chemical Safety Assessment

Toxic to reproduction: category 1B (10043-35-3), phosphoric acid ... %, orthophosphoric acid ... % (7664-38-2), zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate) (7446-19-7), Citric acid (77-92-9)

Not listed Not listed

Not listed

Not listed

Not known

A REACH chemical safety assessment has not been carried out.

## **SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements:

## **LEGEND**

Hazard Pictogram(s)



GHS07: GHS: Exclamation mark GHS08: GHS: Health hazard GHS09: GHS: Environment

Hazard classification Acute Tox. 4: Acute toxicity, Category 4

> Skin Corr. 1: Skin corrosion/irritation, Category 1 Skin Corr. 1B: Skin corrosion/irritation, Category 1B Eye Dam. 1: Serious eye damage/irritation, Category 1 Eye Irrit. 2: Serious eye damage/irritation, Category 2 Repr. 1B: Reproductive toxicity, Category 1B

Aquatic Acute 1: Hazardous to the aquatic environment, Acute, Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment, Chronic, Category 1

H302: Harmful if swallowed. Hazard Statement(s)

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage. H319: Causes serious eye irritation.

H360FD: May damage fertility. May damage the unborn child.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statement(s) P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P264: Wash hands and exposed skin thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331+P310: IF SWALLOWED: Rinse mouth. Do NOT induce

vomiting. Immediately call a POISON CENTRE/doctor.

P303+P361+P353+P310: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTRE/doctor.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



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Immediately call a POISON CENTRE/doctor.

P321: Specific treatment (see Medical Advice on this label).

P363: Wash contaminated clothing before reuse.

P405: Store locked up.

P501: Dispose of contents in accordance with local, state or national legislation.

ATE: Acute Toxicity Estimate CAS: Chemical Abstracts Service

CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of

substances and mixtures DNEL: Derived No Effect Level EC: European Community

EINECS : European Inventory of Existing Commercial Chemical Substances

LTEL: Long term exposure limit

PBT: Persistent, Bioaccumulative and Toxic PNEC: Predicted No Effect Concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

STEL: Short term exposure limit STOT: Specific Target Organ Toxicity

vPvB: very Persistent and very Bioaccumulative

Key literature references and sources for Regulation (EC) No. 1272/2008 (CLP)

data used to compile the SDS

Training Advice Disclaimers

Acronyms

Regular safety training as appropriate

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