



## SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006

Creation date: 25/10/ 2024

Revision: 0

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

#### 1.1 Product identifier:

Product name	PAR+
Product number	PAR+L001
Brand	SW Agronomy

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

Identified uses	Horticultural & agricultural plants and crops only
Uses advised against	Other than those recommended

#### 1.3 Details of the supplier of the Safety Data Sheet

Company	Andrew Turnbull T/A South West Agronomy
Address	Unit 6 Tavy Business Centre, Pitts Cleave Industrial Estate Tavistock Devon PL19 0NU United Kingdom
Telephone	+44 (0)1822 369005
Email	enquiries@swagronomy.com

#### 1.4 Emergency telephone number

Emergency telephone	+44 (0)7900 692052
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### SECTION 2: Hazard identification

2.1 Classification of the substance or mixture according to Regulation (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

2.1.1 Classification	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.
2.2 Label elements	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.
2.3 Other hazards	None

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Synonyms	5-Aminolevulinic acid HCl 5-ALA HCl
Formula	C <sub>5</sub> H <sub>9</sub> NO <sub>3</sub> HCl
Molecular weight	167.59 g/mol
REACH No.	A registration number is not available for this substance as the annual tonnage does not require a registration, or the registration is envisaged for a later registration deadline.
CAS No.	5451-09-2

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

Inhalation	After inhalation: fresh air.
Eye contact	After eye contact: rinse out with plenty of water. Remove contact lenses.
Skin contact	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.
Ingestion	After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

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

No known acute or delayed effects from exposure to the product

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

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Extinguishing powder or CO<sub>2</sub>. In case of more serious fires, also alcohol-resistant foam and spray.

##### Unsuitable extinguishing media

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

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

Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

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#### 5.3. Advice for firefighters

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account.

##### Special protective equipment for firefighters

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots.

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#### 5.4 Further information

Suppress (knock down) gases/vapours/mists with a water spray jet.

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### SECTION 6: Accidental release measures

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

For exposure control and individual protection measures, see section 8.

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#### 6.2. Environmental precautions

Product not classified as hazardous for the environment, avoid spillage as much as possible.

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

The contaminated area should be immediately cleaned with an appropriate de-contaminator. Pour the decontaminator on the remains in an opened container and let it act various days until no further reaction is produced.

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#### 6.4 Reference to other sections

For exposure control and individual protection measures, see section 8. For later elimination of waste, follow the recommendations under section 13.

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### SECTION 7: Handling and storage

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#### 7.1. Precautions for safe handling

For precautions see section 2.2.

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

As general storage measures, sources of heat, radiation, electricity and contact with food should be avoided. Keep away from oxidising agents and from highly acidic or alkaline materials. Store according to local legislation. Observe indications on the label. The product is not affected by Directive 2012/18/EU (SEVESO III).

#### Technical measures and storage conditions

**Storage temperature** Keep in a cool, well-ventilated place.

**Requirements for storage rooms and vessels** Only use containers specifically approved for the substance/product.

**Hints on storage class (TRGS 510)** 13

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### SECTION 8: Exposure controls/personal protection

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#### 8.1. Control parameters

The product does NOT contain substances with Professional Exposure Environmental Limit Values. The product does NOT contain substances with Biological Limit Values.

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#### 8.2. Exposure controls

##### Eye / face protection

EN 166(EU). Safety glasses



**Skin protection**  
**Hand protection**

Tested protective gloves must be worn EN ISO 374.  
The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.



The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

**Body protection** No special measures are necessary.

**Respiratory protection** No special measures are necessary.

**Thermal hazards** No special measures are necessary.

**Environmental exposure controls** No information available.

## SECTION 9: Physical and chemical properties

### 9.1 Physical & chemical properties

Physical state	Liquid
Colour	Blue
Odour	Odourless
pH	3
Melting/freezing point	Not applicable
Boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability	Non flammable
Upper explosive limit	No data available
Lower explosive limit	No data available
Vapour pressure	No data available
Vapour density	No data available
Specific gravity	No data available
Solubility	100% soluble in water
Partition n-octanol/water	No data available
Autoignition temperature	No data available
Thermal decomposition	No data available
Viscosity	No data available
Oxidizing properties	No data available

## SECTION 10: Stability and reactivity

10.1 Reactivity	This product does not present hazards by their reactivity
10.2 Chemical stability	Stable under normal conditions (room temperature)
10.3 Possibility of hazardous reactions	This product does not present possibility of hazardous reactions
10.4 Conditions to avoid	Avoid improper handling
10.5 Incompatible materials	Keep away from oxidising agents and from highly alkaline or acidic materials in order to prevent exothermic reactions
10.6 Hazardous decomposition products	In the event of fire see Section 5

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity	No data is available
Skin corrosion/irritation	May cause irritation to skin. May cause irritation to eyes.
Serious eye damage/irritation	No data is available
Respiratory or skin sensitisation	May cause sensitisation by inhalation and skin contact.
Germ cell mutagenicity	No data is available
Carcinogenicity	No data is available
Reproductive toxicity	No data is available
Specific target organ toxicity - single exposure	No data is available

<b>Specific target organ toxicity</b>	
- repeated exposure	No data is available
<b>Aspiration hazard</b>	No data is available

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#### 11.2 Additional information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

Handle in accordance with good industrial hygiene and safety practice.

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### SECTION 12: Ecological information

<b>12.1 Toxicity</b>	No data is available
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<b>12.2 Persistence and degradability</b>	No data is available
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<b>12.3 Bio accumulative potential</b>	No data is available
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<b>12.4 Mobility in soil</b>	No data is available
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#### 12.5 Results of PBT and vPvB Assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

<b>12.6 Other adverse effects</b>	No data is available
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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Recycle according to local regulations

#### Product/Packaging disposal

**Waste treatment options** Do not dump into sewers or waterways.

#### Appropriate disposal / Product

Waste and empty containers must be handled and eliminated according to current local/national legislation.

#### Appropriate disposal / Package

Non-contaminated packages must be recycled or disposed of. Packing which cannot be properly cleaned must be disposed of. Follow the provisions of Directive 2008/98/EC regarding waste management.

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### SECTION 14: Transport information

<b>14.1 UN Number</b>	No information is available
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<b>14.2 UN proper shipping name</b>	No information is available
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<b>14.3 Transport hazard class(es)</b>	No information is available
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<b>14.4 Packing group</b>	No information is available
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<b>14.5 Environmental hazards</b>	No information is available
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<b>14.6 Special precautions</b>	None
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<b>14.7 Transport in bulk according to Annex II of Marpol and the IBC code</b>	
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No information is available

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### SECTION 15: Regulatory information

#### 15.1 Safety legislation specific for the substance or mixture

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Classification according to Regulation (EC) No 1272/2008 [CLP] according to Regulation (EU) No. 2020/878

#### 15.2 Chemical safety assessment

No information available

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### SECTION 16: Other information

<b>16.1 Indication of changes</b>	None
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#### 16.2 Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

ASTM: ASTM International, originally known as American Society for Testing and Materials (ASTM)

EINECS: European Inventory of Existing Commercial Chemical Substances

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EC50:	Effective Concentration 50 (Maximum Effective Concentration for 0% of Individuals)
LC50:	Lethal Concentration 50 (Lethal Concentration for 50% of Individuals)
IC50:	Inhibitor Concentration 50 (Inhibitory Concentration for 50% of Individuals)
NOEL:	No Observed Effect Level (Maximum dose without effect)
DNEL:	Derived No Effect Level (Derived no-effect dose)
DMEL:	Derived Minimum Effect Level (Derived dose of minimal effect)
CLP:	Classification, Labelling and Packaging
CSR:	Chemical Safety Report
LD50:	Lethal Dose 50 (Lethal Dose for 50% of Individuals)
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organization
Codice IMDG:	International Maritime Dangerous Goods code
PBT:	Persistent, bioaccumulative and toxic
RID:	Regulations concerning the international rail transport of Dangerous Goods
STEL:	Short term exposure limit
TLV:	Threshold limit value
TWA:	Time Weighted Average
EU:	European Union
vPvB:	Very persistent very bioaccumulative
N.D.:	Unavailable
N.A.:	Not applicable
VvVwS.:	Text of Administrative Regulation on the Classification of Substances hazardous to waters into Water Hazard Classes

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**16.3 Key literature references and sources for data**

None

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**16.4 Relevant H- and EUH-phrase (Number and full text)**

None

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**16.5 Training advice**

None

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**16.6 Additional information**

None

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.sigma-aldrich.com](http://www.sigma-aldrich.com) and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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