



PSEUDOMONAS

Safety Data Sheet

GHS classification and labelling of chemicals – SANS10234 and the Regulations for Hazardous Chemical Agents - 2021.
Issue date: 24/08/2023 Date of revision: 04/08/2026 Version: 1.0

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

1.1. Product identifier

Product form	: Mixture
Name	: Pseudomonas
Trade name	: Pseudomonas
Product code	: M46
Type of product	: Fertilizer
Product group	: Trade product

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

1.2.1. Relevant identified uses

Main use category	: Biostimulant
Industrial/Professional use spec	: Agriculture. Biostimulant Industrial For professional use only
Use of the substance/mixture	: Bacterial inoculant for enhanced phosphate solubilization and plant growth promotion, on a powder carrier

1.2.2. Uses advised against

The product should not be used for any other purpose or in any other manner contrary to the information supplied on the product label.

1.3. Details of the supplier of the safety data sheet

UPL South Africa (Pty) Ltd.
Sunbury Office Park (off Douglas Saunders Drive) La Lucia Ridge, 7
P.O. Box 1726, Mount Edgecombe, 4300
4019 Durban – South Africa
South Africa
T +27 31 514 5600
www.upl-ltd.com/za

1.4. Emergency telephone number

Emergency number	: Griffon Poison Information Centre: 082 4468946, Poisons Information Helpline: 0861 555 777, In case of Spillage:Spill Tech: 086 100 0366 / 083 253 6618
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to SANS10234 and the Regulations for Hazardous Chemical Agents - 2021.

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available



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2.2. Label elements

Labelling according to SANS10234 and the Regulations for Hazardous Chemical Agents - 2021.

No labeling applicable. Not classified as hazardous according to GHS.

Precautionary statements:

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P103: Read label before use.

P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke while using this product.

P405 - Store locked up

P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Information on ingredients : The product contains two non-pathogenic, plant growth-promoting Pseudomonas species at a concentration of at least 1×10^7 viable cells per gram, in a suspendible inert perlite carrier consisting of mainly SiO₂ (70 to 90%).

Relevant ingredients:

Name	Product identifier	%	Classification according to UN GHS Purple book Rev. 9 2021
Perlite	(CAS No.) 130885-09-5	46,5-47,5	Not classified

This mixture does not contain any substances classified as hazardous.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove to fresh air. See a doctor if an allergic reaction occurs

First-aid measures after skin contact : Wash with water. See a doctor if an allergic reaction occurs.

First-aid measures after eye contact : Flush with water. See a doctor if an allergic reaction occurs.

First-aid measures after ingestion : Drink water. See a doctor if an allergic reaction occurs.

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 and supportively.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Water spray.



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5.2. Special hazards arising from the substance or mixture

Responders should take into consideration the biohazard risk

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 : Evacuate unnecessary personnel.

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".

Emergency procedures : Ventilate spillage area.

6.2. Environmental precautions

Avoid infiltration of large volumes into drains, surface water or ground water.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product. Collect spillage. Dispose of materials or solid residues at an authorized site..

6.4. Reference to other sections

For further information refer to section 13.

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.
Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place. Avoid prolonged high temperatures. Keep out of the sun for prolonged periods. Keep container closed when not in use.

Storage temperature : 3 to 25°C away from pesticides

Shelflife : 6 months.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No exposure limits for this material have been established by acgih, niosh, or osha.

8.2. Exposure controls

8.2.1. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
- Environmental exposure controls : Avoid release to the environment.

8.2.2. Personal protection equipment

Personal protective equipment:

None hazardous. No special equipment needed.

8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses

8.2.2.2. Skin protection

Body protection:

Wear suitable protective clothing.

Hand protection:

Wear protective gloves.

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: White to off-white
Odour	: Slight odor
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Explosive properties	: Not explosive
Oxidising properties	: Not available
Explosive limits	: Not available
Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: Not applicable
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: 6,0 to 7,3
Viscosity, kinematic	: Not available
Solubility	: Insoluble
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: 1,1 g/cm ³
Relative density	: Not available
Relative vapour density at 20 °C	: Not available
Particle size	: Not available
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable



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Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

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 (see shelf life).

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).

10.5. Incompatible materials

No additional information available.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in SANS10234 and the Regulations for Hazardous Chemical Agents - 2021.

Acute toxicity (oral)	: No mortality, no infectivity and was not pathogenic to rats
Acute toxicity (dermal)	: Did not produce dermal toxicity, following the single dermal application in rats
Acute toxicity (inhalation)	: No mortality, no infectivity and no pathogenic effect was observed in rats.
Skin corrosion/irritation	: Not classified
Additional information	: Based on available data, the classification criteria are not met.
Serious eye damage/irritation	: Not classified.
Additional information	: Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified.
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: No carcinogenic effect was noted Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified



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Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
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12.2. Persistence and degradability

The product is biodegradable

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
14.1. UN number or ID number		
Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name		
N/A	N/A	N/A
Transport document description		
N/A	N/A	N/A
14.3. Transport hazard class(es)		
N/A	N/A	N/A
N/A	N/A	N/A



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ADR	IMDG	IATA
14.4. Packing group		
N/A	N/A	N/A
14.5. Environmental hazards		
N/A	N/A	N/A
No supplementary information available		

14.6. Special precautions for user

Overland transport

No supplementary information available

Transport by sea

Not regulated

Air transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

Regulatory Information:

Relevant regulatory information regarding authorization, Safety Data Sheets, Occupational Exposure Limits, Hazardous Substances, Dangerous Goods Transport and Waste

South Africa: Occupational Health and Safety Act 1993. Regulations for Hazardous Chemical Agents - 2021. Fertilizer, Farm Feeds, Agricultural Remedies and Stock Remedies Act, 1947 (Act 36 of 1947). Hazardous Substances Act, 1973 (Act No.15 of 1973). Regulations for Hazardous Chemical Agents – 2021. SANS11014:2010. Safety Data Sheet for Chemical Products – Content and Order of Sections. SANS10206: 2020. The Handling, Storage and Disposal of Pesticides. National Road Traffic Act, 1996 (Act No. 93 of 1996). SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes. National Environmental Management: waste Act 59 of 2008.

15.1.2. National regulations

No additional information available

SECTION 16: Other information

Data sources : ECHA
Other information : None.

Safety Data Sheet (SDS), UN GHS

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.