



AL PHOS SACHETS

Version: 2.0

Version date: 30/10/2024

Language: EN

According to the Globally Harmonised System of Classification and Labelling of Chemicals, version 10

Safety Data Sheet

section

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

1.1 Product identifier

Trade name/designation : AL PHOS SACHETS (Fumigant)
RESTRICTED USE AGRICULTURAL REMEDY.

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

Relevant identified uses : Insecticide.
Uses advised against : No data available.

1.3 Details of the supplier of the safety data sheet

Supplier/Registration Holder & Distributor: : **Name:** Pathogen & Environmental Solutions (PTY) Ltd
Street: Unit 37 Silver Park, Silver Street,
Postal code/City: Brackenfell Industria, Cape Town, 7560.
Country: South Africa
Telephone: +27 (0) 21 982-8689
E-mail: info@pesafrica.net

Manufacturer: : **Name:** Sandhya Organic Chemicals Private Ltd
Street: Unit 1, Plot 808/A/2, IIIrd Phase, GIDC, Vapi
Postal code/City: 396 195, Gujarat
Country: INDIA
Email: info@sandhya-group.com

1.4 Emergency Telephone Number

ZA: **NATIONAL POISON CENTER: 0861 555 777**
Emergency Tel: +27 83 295 1313
Griffon Poison Information Centre: +27 82 446 8946

Hazards identification

2.1 Classification of the substance or mixture

Hazards identification:

H260	Water React 1.	In contact with water releases flammable gases which may ignite spontaneously.
H300	Acute Tox. 2 ORAL	Fatal if swallowed.
H311	Acute Tox. 3 DERMAL	Toxic in contact with skin.
H330	Acute Tox. 1 INHALATION	Fatal if inhaled.
H400	Aquatic Acute 1	Very toxic to aquatic life.

2.2 Label elements

Labelling

Hazard pictograms



Signal word

DANGER

Hazard Statements

H260	In contact with water releases flammable gases which may ignite spontaneously.
H300	Fatal if swallowed.
H311	Toxic in contact with skin.
H330	Fatal if inhaled
H400	Very toxic to aquatic life.

Precautionary Statements – Prevention

P223	Keep away from any possible contact with water, because of violent reaction and possible flash fire.
P232	Protect from moisture.
P234	Keep only in original container.
P370+P378	In case of fire: Use CO ₂ , sand, extinguishing powder for extinction.
P402+P404	Store in a dry place. Store in a closed container.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P270	Do not eat, drink or smoke when using this product.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.

Precautionary Statements – Response

P330	Rinse mouth.
P321	Specific treatment (see on this label).
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P310	Immediately call a POISON CENTER/doctor.
P302+P352	IF ON SKIN: Wash with plenty of water.
P391	Collect spillage.
P312	Call a POISON CENTER/doctor if you feel unwell.

Precautionary Statements – Storage

P405	Store locked up.
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Precautionary Statements – Disposal

P501 Dispose of contents/container to local and national regulations.

Contains

aluminium phosphide

2.3 Other hazards

Not available.

section 3 Composition/information on ingredients

3.1 Mixtures

Substance		Concentration (%)	Specific concentration limits	Classification		
aluminium phosphide						
CAS N°	20859-73-8	C≤ 56.0%		H260	In contact with water releases flammable gases which may ignite spontaneously. H300 Fatal if swallowed. H311 Toxic in contact with skin. H330 Fatal if inhaled. H400 Very toxic to aquatic life.	
EC N°	244-088-0					
IDX N°	015-004-00-8					
co-formulants						
CAS N°	N/A	C≤ 40-44%		Not classified according to GHS.		
EC N°	N/A					
IDX N°	N/A					

3.2 Remark

Full text of H- phrases: see section 16.

section 4 First aid measures

4.1 Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Do not leave affected person unattended.

Remove victim out of the danger area.

Keep affected person warm, still and covered.

Following inhalation:

Remove person to fresh air and keep comfortable for breathing.

Following skin contact:

Remove contaminated, saturated clothing immediately.

After contact with skin, wash immediately with plenty of water and soap.

Take off immediately all contaminated clothing.

Following eye contact:

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

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Protect unharmed eye.

Following ingestion:

Never give anything by mouth to an unconscious person or a person with cramps.

IF SWALLOWED: Rinse mouth.

Do NOT induce vomiting.

IF SWALLOWED: Immediately call a POISON CENTER or doctor.

Self-protection of the first aider:

First aider: Pay attention to self-protection!.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor:

Treat symptomatically.

section 5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Foam.

Extinguishing powder.

Carbon dioxide (CO₂).

Sand.

Unsuitable extinguishing media:

Strong water jet.

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4 Additional information

Do not inhale vapours and fumes.

Co-ordinate fire-fighting measures to the fire surroundings.

Move undamaged containers from immediate hazard area if it can be done safely.

Use caution when applying carbon dioxide in confined spaces. carbon dioxide can displace oxygen.

Use water spray jet to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection equipment.
Remove persons to safety.

6.2 Environmental precautions

Ensure that waste is collected and contained.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Avoid release to the environment.
Cover drains.
Ensure all waste water is collected and treated via a waste water treatment plant.
Do not allow to enter into soil/subsoil.
Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.

6.3 Methods and material for containment and cleaning up

Treat the recovered material as prescribed in the section on waste disposal.
Collect in closed and suitable containers for disposal.
Clean contaminated objects and areas thoroughly observing environmental regulations.
Collect spillage.

6.4 Reference to other sections

Safe handling: see section 7.
Disposal: see section 13.
Personal protection equipment: see section 8.

6.5 Additional information

Not available.

section 7 Handling and Storage

7.1 Precautions for safe handling

PROTECTIVE MEASURES:

Avoid contact with skin, eyes and clothes.
Only allow access to authorised staff.
Do not eat, drink or smoke when using this product.
Wear personal protective clothing (see section 8).
Do not put any product-impregnated cleaning rags into your trouser pockets.
Sewers and ducts must be protected against the entry of the product.
Provide for retaining containers, eg. floor pan without outflow.

Advices on general occupational hygiene:

Wash hands before breaks and after work.

Street clothing should be stored separately from work clothing.
 Wash contaminated clothing before reuse.
 Remove contaminated, saturated clothing immediately.
In the immediate working surroundings there must be:
 Provide eye shower and label its location conspicuously.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool, and well-ventilated place.
 Keep container in upright position in order to prevent leakage.
Requirements for storage rooms and vessels:
 Store locked up.
 Use isolated drainage to prevent discharge to soil.
Advice on joint storage:
 Keep away from food, drink and animal feeding stuffs.

7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

section 8 Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits:
 Does not contain substances above concentration limits fixing an occupational exposure limit.
Biological limit values:
 Not available.
Exposure limits at intended use:
 Not available.

8.2 Exposure controls

Appropriate engineering controls:
 Technical measures and the application of suitable work processes have priority over personal protection equipment.

Personal protection equipment:



- | | |
|----------------------------|--|
| Eye/face protection | : Suitable eye protection:
Wear eye protection equipment.
Recommended eye protection articles:
Eye glasses with side protection. |
| Skin protection | : Hand protection:
Suitable gloves type:
Wear protective gloves.
Suitable material:
NBR (nitrile rubber).
Butyl caoutchouc (butyl rubber).
Additional hand protection measures:
Do not wear gloves near machines and rotating tools.
Use gloves only once. |

Remark:

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

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.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Breakthrough times and swelling properties of the material must be taken into consideration.

Body protection:

Suitable protective clothing:

Lab coat.

Chemical resistant safety shoes.

Respiratory protection

: Suitable respiratory protection apparatus:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer

exposure use self-contained respiratory protective device.

For the use of a respiratory filter device: filter colour grey (type B, inorganic gases and vapours), in dusty environments a combination filter is recommended (filter colour white, filter type P).

Environmental exposure controls:

Not available.

section 9 Physical and chemical Properties

9.1 Information on basic physical and chemical properties

Physical state	: Dark Grey to Yellowish Powder. (SACHETS)
Colour	: Grey.
Odour	: Garlic-Like, decaying fish or odourless.
Odour threshold	: Since odour might not be detected under certain circumstances, the absence of a garlic odour does not mean that phosphine gas is absent. Substance is toxic to inhalation.
pH	: Not available.
Melting/Freezing point	: Aluminium Phosphide > 1000 °C
Boiling point	: Not available
Flash point	: Not available
Evaporation rate	: Not available
Flammability	: Contact with water liberates extremely flammable gases. Emission of Phosphine (PH ₃), toxic gas.
Lower limit of flammability or explosive	: Not available.
Vapour pressure	: Aluminium Phosphide 0mm Hg. Phosphine gas 40mm Hg @ - 129.4 °C.
Vapour density	: Not available.
Relative density	: Aluminium Phosphide 2.55, Phosphine 1.17
Water solubility	: Insoluble in water (reacts with water).
Partition coefficient, n-octanol/water (log Pow)	: Not available
Auto-inflammability temperature	: Not available
Decomposition temperature	: Not available
Viscosity	: Not available
Explosive properties	: Product does not present an explosion hazard. Product itself not explosive, however phosphine gas Has LEL 1.8% v/v.
Oxidising properties	: Not available
Solubility in other Solvents	: Not available
Log Kow	: Not available

section 10 Stability and Reactivity

10.1 Reactivity

Reactive with water and acids.

10.2 Chemical stability

The product is stable when stored at normal ambient temperatures.

10.3 Possibility of hazardous reactions

Contact with water releases flammable gases. Emission of Phosphine (PH₃), toxic gas.
Contact with water releases toxic gases.

10.4 Conditions to avoid

Protect from moisture.
Avoid high temperatures.
Protect from contact with acids.

10.5 Incompatible materials

Protect from moisture.
Protect from contact with acids.

10.6 Hazardous decomposition products

Release of ammonia and carbon dioxide.
Hydrogen phosphide
Contact with water releases flammable gases. Emission of Phosphine (PH₃), toxic gas.
Contact with water releases toxic gases.

10.7 Additional information

Not available.

section 11 Toxicological information

11.1 Acute oral toxicity

The product is classified Acute Tox. 2_ORAL according to the referenced regulation.
H300-Fatal if swallowed.
ATE "AL PHOS SACHETS" = 9 mg/kg.

11.2 Acute dermal toxicity

The product is classified Acute Tox. 3_DERMAL according to the referenced regulation.
H311-Toxic in contact with skin.
ATE "AL PHOS SACHETS" = 535.75 mg/kg.

11.3 Acute inhalation toxicity

The product is classified Acute Tox. 1_INHALATION according to the referenced regulation.
H330-Fatal if inhaled.
ATE "AL PHOS SACHETS" = 0.01 mg/l

11.4 Skin corrosion/irritation

The product is not classified.

Data for mixture:

Not available

Substances:

Not available

11.5 Serious eye damage/irritation

The product is not classified.

11.6 Skin sensitisation

The product is not classified.

Data for mixture:

Not available

Substances:

Not available

11.7 Specific target organ toxicity (repeated exposure)

The product is not classified.

Data for mixture:

Not available

Substances:

Not available

11.8 Specific target organ toxicity (single exposure)

The product is not classified.

Data for mixture:

Not available

Substances:

Not available

11.9 Carcinogenicity

The product is not classified.

Data for mixture:

Not available

Substances:

Not available

11.10 Reproductive toxicity

The product is not classified.

Data for mixture:

Not available

Substances:

Not available

11.11 Germ cell mutagenicity

The product is not classified.

Data for mixture:

Not available

Substances:

Not available

11.12 Sensitisation to the respiratory tract

The product is not classified.

Data for mixture:

Not available

Substances:

Not available

11.13 Additional information

Not available.

section 12 Ecological information**12.1 Toxicity**

Very toxic to aquatic life.

12.2 Persistence and degradability

The product has not been tested.

Data for mixture:

Not available

Substances:

Not available

12.3 Bioaccumulative potential

The product has not been tested.

Data for mixture:

Not available

Substances:

Not available

12.4 Mobility in soil

The product has not been tested.

Data for mixture:

Not available

Substances:

Not available

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

12.7 Additional ecotoxicological information

Not available.

section 13 Disposal considerations**13.1 Waste treatment methods****Product/Packaging disposal:****Waste treatment options:****Appropriate disposal/Product:**

Waste requiring special supervision.

Dispose of waste according to applicable legislation.

Delivery to an approved waste disposal company.

Appropriate disposal/Package:

Non-contaminated packages must be recycled or disposed of.

Contaminated packing must be completely emptied and can be reused after proper cleaning.

Packing which cannot be properly cleaned must be disposed of.

Handle contaminated packages in the same way as the substance itself.

Dispose of waste according to applicable legislation.

Remark:

For recycling, contact manufacturer.

Collect the waste separately.

Consult the appropriate authorities about waste disposal.

Do not mix with other wastes.

The waste is to be kept separate from other types of waste until its disposal.

Concerning the waste it has to be checked, whether a transport authorisation is required.

section 14 Transport information

14.1 UN number

UN 1397

14.2 UN proper shipping name

ADR: UN1397 ALUMINIUM PHOSPHIDE, ENVIRONMENTALLY HAZARDOUS

IMDG: ALUMINIUM PHOSPHIDE, MARINE POLLUTANT

IATA: ALUMINIUM PHOSPHIDE

14.3 Transport hazard class(es) - ADR, IMDG & IATA

4.3 Substances which, in contact with water, emit flammable gases. Label 4.3+6.1

14.4 Packing group

I

14.5 Environmental hazards

“Fish and Tree” Symbol



14.6 Special precautions for user

Warning: Substances which, in contact with water, emit flammable gases.

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

Not applicable.

section 15 Regulatory information

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

This SDS has been established in accordance with GHS regulation.

15.2 Chemical Safety Assessment

Not available.

section 16 Other information

16.1 Indication of changes

Not applicable (first edition of the MSDS).

16.2 Abbreviations and acronyms

CAS: Chemical Abstract Service Number.

IATA: International Air Transport Association.

IMDG: International Maritime Dangerous Goods Code.

DPD Dangerous Preparation Directive.

UN number: United Nations number.

No EC: European Commission Number.

GHS: Globally Harmonised System of Classification and Labelling of Chemicals.

16.3 Key literature references and sources for data

No data available.

16.4 The classification of the mixture is in accordance with the evaluation method described in HazCom 2012

The classification of the mixture is in accordance with the evaluation method described in the GHS.

16.5 The classification of the mixture is in accordance with the evaluation method described in the GHS

H260	Water React 1.	In contact with water releases flammable gases which may ignite spontaneously.
H300	Acute Tox. 2 ORAL	Fatal if swallowed.
H311	Acute Tox. 3 DERMAL	Toxic in contact with skin.
H330	Acute Tox. 1 INHALATION	Fatal if inhaled.
H400	Aquatic Acute 1	Very toxic to aquatic life.

16.6 Training advice

Refer to Sections 4, 5, 6, 7 and 8 of this safety data sheet.

16.7 Additional information

Creation date: 30/06/2021

Version date: 30/10/2024

Printing date: 30/10/2024

Revision date: 30/10/2029

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The information given in this Safety Data Sheet is based on our present knowledge on GHS Guidelines Rev 9 and national regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn't guarantee all the product properties particularly in the case of non-identified uses. The product mustn't be used for any uses other than those identified under heading 1. Since the user's working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects. If you have any questions, contact the registration holder/supplier.