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

1.1. Product identifier

Product name	PHL
Chemical name	Mixture of amino acids of vegetable origin

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

Identified uses	As an agricultural fertilizer and in blends manufacturing
Uses advised against	There are not available data

1.3. Details of the supplier of the safety data sheet

Company name	DADELOS, S.L.
Address	Plaza Alcalde Domingo Torres, 4º 1º - 46020 Valencia
Telephone number	Central: + 34 96.362.88.62 Fax: +34 96.362.85.44
e-mail address for MSDS	sds@dadelos.com

1.4. Emergency telephone number

Telephone number	+34 96.362.88.62 (Business hours)

SECTION 2: Hazards identification

2.1. Clasification of the substance or mixture:

This product has not been classified as hazardous in accordance with current laws.

2.2. Label elements

Not applicable.

2.3. Other hazards

There are not available data.

SECTION 3: Composition/information on ingredients

3.1. Substance:

Chemical name: Mixture of amino acids of vegetable origin

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Under normal conditions of expected use, it is not expected this material constitutes a risk by inhalation.
Ingestion	Swish the mouth. Get information from he althcare professionals in case of symptoms.
Skin contact	Remove contaminated clothing. Clean with soap and water.
Eye contact	Wash thoroughly with lots of water, if skin irritation, see a doctor.

4.2. Most important symptoms and effects, both acut e and delayed

No significant adverse effects have been noted by exposition.

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

Treatment: No particular measure.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing agents: Water fog, foam, dry chemical powder or carbon dioxide.

Not suitable extinguishing agents: Do not use a dire ct stream of water to extinguish.

5.2. Special hazards arising from the substance or mixture

In case of fire can develop hazardous decomposition products. See section 10.

5.3. Advice for firefighters

Special measures for detection and prevention of fires: Closed containers exposed to fire should be cooled with water, if it is at all possible, safety.

Fire protection equipment: 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 gloves.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep unnecessary people and without protection away from spillover. Do not touch spilled product. Wear gloves and protective equipment.

6.2. Environmental precautions

Avoid direct discharge to sewers and surface waters. In case of large spills, contain the spilled material by dikes.

6.3. Methods and material for containment and cleaning up

Small spill: Absorb with suitable material. Place in a suitable container for disposal. Clean the affected area with a large amount of water.

Spill and Leak: Absorb spill with inert material (e.g. dry sand or earth) and place in a suitable waste container. Clean the affected area with a large amount of water.

6.4. Reference to other sections

For information on disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ensure good ventilation. See Section 8 of the MSDS for Personal Protective Equipment.

7.2. Conditions for safe storage, including any incompatibilities

Protect from frost. Store product closed.

7.3. Specific end use(s)

Formulation and reconditioning.; Industrial; fertilizer.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2. Exposure controls

Appropiate engineering controls This can be achieved by local suction or general air extraction

Individual protection measures, such as personal protective equipment:

Eye/face protection	Safety goggles or face shield, if risk of splashing.
Skin protection	Protective working garments.
Hand protection	For prolonged use, wear gloves.
Respiratory protection	Normally not necessary.
Hygiene	General hygiene measures for the handling of chemicals are applicable.
Environmental exposure controls	Waste residues should not be disposed in sewers and surface water, but to a suitable treatment plant to comply with the requirements of environmental protection, waste disposal and local ordinances.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	Dark brown
Odour	Sui generis
pH value	3.8-4.2
Freezing point	N.A./N.A.
Melting point	> 100°C
Flash point	N.A./N.A.
Flammability (solid, gas)	N.A./N.A.
Water solubility	Totally soluble.

9.2. Other information

Explosion hazard	Product is not explosive

SECCIÓN 10: Stability and reactivity

10.1. Reactivity

The product does not present hazards by their reactivity.

10.2. Chemical stability

Stable under the recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

The product does not present possibility of hazardous reactions

10.4. Conditions to avoid

Avoid temperatures near or above the flash point. Do not heat closed containers

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 case of fire, dangerous decomposition products can be generated, such as carbon monoxide and dioxide and nitrogen fumes and oxides.

SECTION 11: Toxicological information

11.1. Toxicological effects information

There are no data available on the product.

SECTION 12: Ecological information

12.1. Toxicity

There is no information available related the ecotoxicity.

12.2. Persistence – degradability

No information is available on the persistence and degradability of this product.

12.3. Potential for bioaccumulation

The bioaccumulation potential is low

12.4. Mobility in soil

This material is readily biodegradable and unlikely to bioconcentrate. Do not allow product to enter drains or water courses. It prevents penetration into the ground.

12.5. Assessment results PBT y mPmB

No information is available on PBT y mPmB del producto.

12.6. Other adverse effects
No information is available about other adverse effects for the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product	Waste disposal in the waste treatment facil ity authorized in accordance with existing regulations and depending on product chara cteristics at time of disposal.
Packaging	Single-use container. Collect with a view to recovery or disposal.

SECTION 14: Transport information

The product is not covered by international regulat ion on the European Union on the transport of hazar dous goods (IMDG, ICAO/ IATA, ADR/RID).

14.5. Environmental hazards
Unregulated

14.6. Special precautions for users
No special precautions

14.7. Transport in bulk according to Annex II of Marpol Agreement 73/78 and IBC Code
Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
This Safety Data Sheet complies with the requiremen ts of Regulation (EU) No 453/2010 replacing Annex I I of Regulation (EC) No 1970/2006 (REACH).

15.2. Chemical safety assessment
Not carried out a chemical safety assessment of the product.

SECTION 16: Other information

Information on the review	Not relevant
Key bibliographical references and data sources	REACH registration dossier. Literature on the components.
Exemption from liability	The information contained in this Safety Data Sheet (MSDS) relate only to the designated product. It does not apply when the prod uct is used in conjunction with others. It is the responsibility of the user t o know and apply the regulations applicable to the use of the product. The information provided is intended to help the user to fulfill his obligations and should not be considered a warranty or a technical specifications sheet. All information and instructions provided in this SDS are based on the state of our knowledge, at the indicated updated date.