MATERIAL SAFETY DATA SHEET
According to Regulation (EC) 1907/2006

Date: 11.01.2017.
Version: 1.0

SECTION 1: Identification of the substance/preparation and introduction of the company

1.1. Product identification:
Trade name

AMINOPRIM

1.2. Relevant identified use of the substance or mixture and use discouraged:
Organic plant growth stimulator.
Use not recommended: other than listed above.

1.3. Details of the supplier of Material Safety Data Sheet:

Name:	INTERMAG Sp. z o. o.
Address:	Al. 1000-lecia 15 G, 32-300 Olkusz, Poland
Telephone:	+48 32 6455900
Fax:	+48 32 6427044
E-mail:	intermag@intermag.pl

E-mail address of the competent person responsible for Material Safety Data Sheet: msds@intermag.pl

1.4. Emergency telephone number: 112

SECTION 2: Hazard identification

2.1. Classification:

The product is not classified as dangerous.

2.2. Label elements:

Pictograms:	not applicable
Hazard codes:	not applicable
H Phrases:	not applicable
P Phrases:	not applicable

2.3. Other hazards: The mixture does not meet the criteria for PBT or vPvB in accordance with Annex XIII.

SECTION 3: Content/ Information of ingredients

3.2. Mixture: water solution

Name	Index number	CAS	EC	Classification	Registration number
protein hydrolyzate	none	9015-54-7	310-295-0	none	chemically modified natural polymer

If the dangerous ingredients are mentioned, the importance of H Phrases is given in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures: If health problems or doubts occur, always seek medical advice and show information given in this MSDS.

Inhalation: Stop working and move to fresh air. In case of loss of consciousness keep airway open. Seek medical advice.

Skin contact: Take off contaminated clothing, wash the affected skin with water and soap, clothing laundered before reuse.

Eye contact: If the victim wears contact lenses, it should be removed before washing. Rinse the eyes immediately with plenty of water for at least 15 min keeping the lids wide open. If irritation persists seek oculist advice.

Ingestion: Rinse mouth with water, provide a small amount of drinking water. Never give anything orally an unconscious person.

4.2. Acute and delayed symptoms and effects of exposure: not known.

4.3. Indication of any immediate medical attention and specific treatment needed:
Decision about emergency procedures is taken by a doctor after examination of injured.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media: CO_2, foam, water spray and other extinguishing agents suitable for the materials burning in the environment.

Inappropriate extinguishing media: dense water stream.

5.2. Special hazards arising from the substance or mixture: inflammable product under normal conditions. Decomposition and combustion of mixture may be toxic – carbon oxides, nitrogen oxides.

5.3. Information for fire-fighters: Use protective clothing and breathing apparatus. Fire residues should be disposed of in accordance to local regulations. Don't allow the contaminated water to be released to underground and surface water.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures: Inform about the accident; remove from danger zone all persons not involved in the liquidation of accident. Order the evacuation if necessary. Avoid direct and long-term contact with released liquid. Avoid inhalation of steam/mists. In the event of release in a confined space ensure effective ventilation. Use personal protective equipment (respirator with filter type A, protective gloves made of neoprene or nitrile, protective goggles or tight-fitting goggles, protective clothing).

6.2. Measures for environmental protection: If possible or safe remove or reduce the leak (seal, close the flow of liquids, damage container place in an emergency container). Limit the spread of the spill by bunding area. Prevent the entry of fertilizer into sewage system, groundwater and surface water and soil.

6.3. Methods and materials for prevention and removal of contamination: In case of a leak of large amount of product – rampart and assembly of liquid and drain collected liquid. In case of leak of small amount of product - coop up spilled fertilizer. Rinse the residues with plenty of water. Obtain solution use for fertilization or pass for disposal.

6.4. Reference to other sections: Personal protective equipment can be found in Section 8. Dispose of in accordance with the recommendations set out in Section 13.

SECTION 7: Handling of substances and mixtures, storage.

7.1. Precautions for safe handling: Don't eat – in case of ingestion seek medical advice. In case of eyes contamination – rinse with plenty of water and seek medical advice. Use googles, protective gloves and protective clothing. Observe rules of hygiene.

7.2. Conditions for safe storage, including information about any incompatibilities:
Store in a tightly closed, originals packaging in a cold, dry place with good ventilation.

7.3. The specific end-use: no data available.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters:

Data for protein hydrolysate:

EMPLOYEES	
DNEL/DMEL dermal systemic effects:	no data available
DNEL/DMEL by inhalation:	no data available
CONSUMERS	
DNEL/DMEL dermal systemic effects:	no data available
DNEL/DMEL by inhalation:	no data available
DNEL/DMEL by ingestion:	no data available

PNEC for the freshwater environment:	no data available
PNEC for the marine environment:	no data available
PNEC for water environment (temporary release):	no data available
PNEC STP:	no data available
PNEC for sediment environment (fresh water):	no data available
PNEC for sediment environment (marine water):	no data available
PNEC for air environment:	no data available
PNEC for soil environment:	no data available

Note: When the concentration of the substance is known, the selection of personal protective equipment should be made taking into account the concentration of the substance present in the workplace, exposure time and the activities performed by the employee.
In an emergency, if the concentration of the substance in the workplace is not known, use personal protection measures recommended for the highest protection class.
The employer is obliged to ensure that the used personal protective equipment, clothing and shoes have protective and functional properties and ensure their proper cleaning, maintenance, repair and decontamination.

8.2. Exposure control:

8.2.1. Technical protective measures: general ventilation

8.2.2. Personal protection measures such as individual protection equipment:

8.2.2.1. Eye or face protection: protective goggles (EN 166)

8.2.2.2. Skin protection:

Protection of hands: protective gloves (EN 374) made of PCV, neoprene, nitrile or their equivalent. The selection of suitable gloves should be assessed penetration, degradation, breakthrough time in relation to the work done with the use of the product.

Other: protective clothing (EN 344).

8.2.2.3. Respiratory protection: under normal conditions and at a sufficient ventilation is not required. In case of insufficient ventilation use mask with filter type B or universal filter (1,2,3 or EN 141).

8.2.2.4. Thermal hazards: not required

8.2.3. Environmental exposure controls: Prevent entering a large amount of product to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties:

Form:	liquid, dark brown
Odour:	specific
Odour threshold:	no available data
pH:	7.4 ± 0.5 (at 20°C)
Melting / freezing point:	no available data
Initial boiling point and boiling range:	no available data
Flash point:	no available data
Evaporation rate:	no available data
Flammability (solid, gas):	not applicable
Upper explosion limit:	no available data

	Lower Explosive Limit:	no available data
	Vapor pressure:	no available data
	Vapor density:	no available data
	Density:	1 240 ± 50 kg/m^3 (at 20°C)
	Solubility in water:	total solubility
	Partition coefficient: n-octanol/water:	no available data
	Flash point:	no available data
	Decomposition temperature:	no available data
	Viscosity:	no available data
	Explosive properties:	the mixture is not explosive
	Oxidizing properties:	not oxidizing mixture
9.2.	Other data:	none

SECTION 10: Stability and reactivity

10.1. Reactivity:
Product is not reactive under normal conditions.

10.2. Chemical stability:
product stable in normal conditions of storage.

10.3. Possibility of hazardous reactions:
Not expected under normal conditions of storage.

10.4. Conditions to be avoided:
To avoid temperature shocks due to the possibility of crystallization. Avoid storing the product at temperatures >30 ° C and <4 ° C due to significant changes in viscosity, which may hinder the work of the product.

10.5. Incompatible materials:
Strong oxidants, which can cause strong exothermic reactions.

10.6. Hazardous decomposition products:
No dangerous decomposition products in a normal using conditions. Under high temperatures may decompose with emission of harmful carbon oxides and nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects:

11.1.1. Acute toxicity:
Based on the available data, the classification criteria are not met.

11.1.2. Skin corrosion / irritation:
Based on the available data, the classification criteria are not met

11.1.3. Serious eye damage / eye irritation:
Based on the available data, the classification criteria are not met.

11.1.4. Irritation to the respiratory tract or skin:
Based on the available data, the classification criteria are not met.

11.1.5. Germ cell mutagenicity:
Based on the available data, the classification criteria are not met

11.1.6. Carcinogenicity:
Based on the available data, the classification criteria are not met.

11.1.7. Reproductive toxicity:
Based on the available data, the classification criteria are not met.

11.1.8. Toxic to organs or systems - single exposure:
Based on the available data, the classification criteria are not met.

11.1.9. Toxic to organs or systems - repeated exposure:
Based on the available data, the classification criteria are not met.

11.1.10. Aspiration hazard:
Based on the available data, the classification criteria are not met.

11.1.11. Other information: none

SECTION 12: Ecological information

12.1. Toxicity: Based on the available data, the classification criteria are not met.
Based on the nature and origin of the substance constituting the protein hydrolysate, and the properties related with used the product in agriculture, the negative effects are only expected in the case of an uncontrolled release of product into the environment.

12.2. Persistence and degradability:
Substance biodegradable under aerobic conditions. Amino acids and peptides present in the protein hydrolysate are metabolized by living organisms in the environment. Biotic degradation products are used in the process of biochemical processes at the cellular level and, consequently, the product is biodegradable.

12.3. Bioaccumulation ability:
Degradation of the protein hydrolysates in the soil results in the formation of amino acids used for the production of proteins and, therefore, immediately metabolized. They present in the environment for a very short period of time and do not exhibit bioaccumulation properties.

12.4. Mobility in the soil:
Degradation of the protein hydrolysates in the soil results in the formation of amino acids used for the production of proteins and, therefore, immediately metabolized. The product is easily biodegradable, but the use of large quantities of the product may cause pollution of soil and surface water, as well as temporary changes in the place of release of the substance. Avoid using undiluted product on soils and surface waters.

12.5. Results of PBT and vPvB assessment: Does not meet the criteria of PBT and vPvB

12.6. Other adverse conditions of operation: Prevent entry of the product in large quantities into drains and waterways.

SECTION 13: Disposal of waste

13.1. Methods of disposal:
Do not dispose together with municipal solid waste. Prevent the product from being released into sewage system and underground and surface water. Do not dispose in landfill sites. Consider the possibility of utilization. Dispose/ recycle the product and the package according to the local regulations concerning environmental protection. Only completely emptied packages may be recycled. Do not mix with other waste.

SECTION 14: Shipping Information

14.1. The UN number (UN number): none
14.2. Proper shipping name: not applicable
14.3. Transport hazard class: not applicable
14.4. Packing Group: none
14.5. Environmental Hazards: This product does not pose a threat to the environment
14.6. Special precautions for user: not applicable
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. Laws concerning the safety, health and environmental protection specific for the substance or mixture.

1272/2008 Regulation of the European Parliament and of the Council (EC) of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

790/2009 Commission Regulation of 10 August 2009 adapting to scientific and technical regulation of the European Parliament and Council Regulation (EC) No 1272/2008 of 16 December 2008 on classification, labeling and packaging of substances and mixtures.

2008/98 Directive of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives.

94/62 Directive of the European Parliament and of the Council of 20 December 1994 on packaging and packaging waste.

15.2. Chemical safety assessment: not conducted

SECTION 16: Other information:

The information in this MSDS relates only to the described product and is based on our current knowledge, experience and may not be comprehensive. The end user is responsible for the use of product according to the valid regulations.

Version: 1.0
Changes: not applicable.

Hints concerning training:

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Train in accordance with valid regulation: Safety and Health Regulations, fire regulations, regulations of packaging, waste regulations especially taking into account health protection, safety and environmental protection, regulations on fertilizers.

H Phrases: none

Explanation of acronyms and abbreviations:
Acute Tox. Acute toxicity
Eye Irrit. Serious eye irritation
Resp. Sens. Respiratory sensitization
NDS - Maximum permissible concentration
NDSCh - Maximum permissible instantaneous concentration.
NDSP - Maximum permissible ceiling concentration.
vPvB very Persistent and very Bioaccumulative
PBT Persistent Bioaccumulative and Toxic
PNEC Predicted No Effect Concentration
DN(M)EL Derived No (Minimal) Effect Level
LD_{50} median lethal dose
LC_{50} mean lethal concentration
EC_x concentration showing x % Effect
LOEC Lowest Observed Effect Concentration
NOEL No Observed Effect Level
RID Regulations Concerning the International Carriage of Dangerous Goods by Rail
ADR European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG International Maritime Dangerous Goods Code
ICAO/IATA International Civil Aviation Organization / International Air Transport Association
AND European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
UVCB Substances of Unknown or Variable Composition, Complex reaction products or

Recommended restriction of use: none

Sources used to Material Safety Data Sheet preparation:
MSDS of the producer,
Webside of the European Chemicals Agecy (www.echa.eu),
Webside of the office of Chemical Substances (www.chemikalia.gov.pl)

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