

# Safety Data Sheet PM-615 ION MAGNETIC





Safety Data Sheet dated 6/8/2018, version 8

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

- 1.1. Product identifier  
Trade name: PM-615 ION MAGNETIC
- 1.2. Relevant identified uses of the substance or mixture and uses advised against  
Recommended use:  
Anti-scalant, complexing agent in water treatment.  
Uses advised against:  
No uses advised against.
- 1.3. Details of the supplier of the safety data sheet  
Company:  
BONET ESPECIALITATS HIDROQUÍMIQUES, S.L.U.  
C/Holanda, 41. P.I.Pla de Llerona  
Les Franqueses del Vallès (08520) (Spain)  
Telf: (+34) 900 82 87 81, 93 846 53 36  
Fax: (+34) 93 846 78 21  
info@behqsl.com  
Competent person responsible for the safety data sheet:  
laboratorio@behqsl.com
- 1.4. Emergency telephone number  
In case of poisoning call the Spanish National Institute of Toxicology: +34 91 562 04 20

## SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture  
EC regulation criteria 1272/2008 (CLP)
-  Danger, Skin Corr. 1A, Causes severe skin burns and eye damage.
  -  Danger, Eye Dam. 1, Causes serious eye damage.

Adverse physicochemical, human health and environmental effects:  
No other hazards

- 2.2. Label elements  
Hazard pictograms:



Danger

Hazard statements:  
H314 Causes severe skin burns and eye damage.

Precautionary statements:  
P102+P405 Keep out of reach of children. Store locked up.  
P280 Wear protective gloves and eye protection.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.  
P501 Dispose of contents/container by delivery to an authorized collection point for hazardous waste in your town.

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**Special Provisions:**

- PACK1 The packing must be featured by a safety lock for children.
- PACK2 The packing must have tactile indications of danger for blind people.

**Contains**

Hydroxyethylidene diphosphonic acid (HEDP)

**Special provisions according to Annex XVII of REACH and subsequent amendments:**

None

**2.3. Other hazards**

vPvB Substances: None - PBT Substances: None

**Other Hazards:**

No other hazards




### SECTION 3: Composition/information on ingredients

**3.1. Substances**

N.A.

**3.2. Mixtures**

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
≥ 20% - < 25%	Hydroxyethylidene diphosphonic acid (HEDP)	CAS: 2809-21-4	 2.16/1 Met. Corr. 1 H290
		EC: 220-552-8	 3.1/4/Oral Acute Tox. 4 H302
		REACH No.: 01-21195103 91-53-XXXX	 3.3/1 Eye Dam. 1 H318

### SECTION 4: First aid measures

**4.1. Description of first aid measures**

In case of skin contact:

- Remove contaminated clothing immediately and dispose off safely.
- OBTAIN IMMEDIATE MEDICAL ATTENTION.

In case of eyes contact:

- After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
- Protect uninjured eye.

In case of Ingestion:

- Do NOT induce vomiting.

In case of Inhalation:

- Remove casualty to fresh air and keep warm and at rest.

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

None

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

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

### SECTION 5: Firefighting measures

**5.1. Extinguishing media**

- Suitable extinguishing media:  
Water, carbon dioxide (CO<sub>2</sub>).
- Extinguishing media which must not be used for safety reasons:  
None in particular.

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

- Do not inhale explosion and combustion gases.
- Burning produces heavy smoke.

**5.3. Advice for firefighters**

- Use suitable breathing apparatus .

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Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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

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### SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
  - Wear personal protection equipment.
  - Remove persons to safety.
  - See protective measures under point 7 and 8.
- 6.2. Environmental precautions
  - 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.
  - In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
  - Suitable material for taking up: absorbing material, organic, sand
- 6.3. Methods and material for containment and cleaning up
  - Wash with plenty of water.
- 6.4. Reference to other sections
  - See also section 8 and 13

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### SECTION 7: Handling and storage

- 7.1. Precautions for safe handling
  - Avoid contact with skin and eyes and inhalation of dusts/vapours.
  - No smoking. Keep away from food, drink and animal feed.
  - Use appropriate personal protective equipment. Refer to paragraph 8.
  - Follow legislation on safety and health at work.
  - Prevent entry of unauthorized persons.
- 7.2. Conditions for safe storage, including any incompatibilities
  - As a general storage conditions, it should be avoided sources of heat, radiation, electricity and food contact. Store according to local legislation.
  - Store between 5 and 35 °C in a dry and well ventilated place.
  - Store into the original container. Keep the container properly sealed and labeled.
  - Keep away from incompatible materials: see paragraph 10.
- 7.3. Specific end use(s)
  - None in particular

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### SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters
  - No occupational exposure limit available
  - DNEL Exposure Limit Values
    - N.A.
  - PNEC Exposure Limit Values
    - N.A.
- 8.2. Exposure controls
  - Eye protection:
    - Eye glasses with side protection.
  - Protection for skin:
    - Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.
  - Protection for hands:
    - Protective gloves according to regulation EN 374.
  - Respiratory protection:
    - Not needed for normal use.
  - Thermal Hazards:
    - None

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Environmental exposure controls:

None

Appropriate engineering controls:

None

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance and colour:	Colourless liquid	--	--
Odour:	Slightly characteristic	--	--
Odour threshold:	Not Relevant	--	--
pH:	0.5 - 2	--	--
Melting point / freezing point:	0 °C	--	--
Initial boiling point and boiling range:	100 °C	--	--
Flash point:	Not applicable (aqueous solution)	--	--
Evaporation rate:	Not available	--	--
Solid/gas flammability:	Not flammable	--	--
Upper/lower flammability or explosive limits:	Not applicable	--	--
Vapour pressure:	Not available	--	--
Vapour density:	Not available	--	--
Relative density:	1.170 - 1.195 (20 °C)	--	--
Solubility in water:	Soluble in water in all proportions	--	--
Solubility in oil:	Not Relevant	--	--
Partition coefficient (n-octanol/water):	Not available	--	--
Auto-ignition temperature:	Not applicable (not flammable)	--	--
Decomposition temperature:	Not available	--	--
Viscosity:	Not available	--	--
Explosive properties:	No explosive	--	--
Oxidizing properties:	Non oxidizing	--	--

#### 9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	Not Relevant	--	--
Fat Solubility:	Not Relevant	--	--
Conductivity:	Not Relevant	--	--
Substance Groups relevant properties	Not Relevant	--	--

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable under normal conditions

#### 10.2. Chemical stability

Stable under normal conditions

#### 10.3. Possibility of hazardous reactions

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- None
- 10.4. Conditions to avoid  
Stable under normal conditions.
- 10.5. Incompatible materials  
None in particular.
- 10.6. Hazardous decomposition products  
Oxides of phosphorus. Oxides of carbon.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Toxicological information of the product:

N.A.

Toxicological information of the main substances found in the product:

Hydroxyethylidene diphosphonic acid (HEDP) - CAS: 2809-21-4

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 1500-2000 mg/kg - Source: OECD 401

Test: LD50 - Route: Skin - Species: Rabbit > 7500 mg/kg - Source: OECD 402

b) skin corrosion/irritation:

Test: Skin Irritant - Species: Rabbit Yes - Source: OECD 404

c) serious eye damage/irritation:

Test: Eye Corrosive - Species: Rabbit Yes - Source: OECD 405

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Hydroxyethylidene diphosphonic acid (HEDP) - CAS: 2809-21-4

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 300 mg/l - Duration h: 48

Endpoint: EC50 - Species: Daphnia > 500 mg/l - Duration h: 48

#### 12.2. Persistence and degradability

N.A.

#### 12.3. Bioaccumulative potential

N.A.

#### 12.4. Mobility in soil

N.A.

#### 12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

#### 12.6. Other adverse effects

None

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

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Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force. Waste should not be disposed of through the sewer.

### SECTION 14: Transport information

- 14.1. UN number  
 ADR-UN number: 3265  
 IATA-Un number: 3265  
 IMDG-Un number: 3265
- 14.2. UN proper shipping name  
 ADR-Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (hydroxyethylidene diphosphonic acid in solution), 8, III  
 IATA-Technical name: Corrosive liquid, acidic, organic, n.o.s. (hydroxyethylidene diphosphonic acid in solution), 8, III  
 IMDG-Technical name: Corrosive liquid, acidic, organic, n.o.s. (hydroxyethylidene diphosphonic acid in solution), 8, III
- 14.3. Transport hazard class(es)  
 ADR-Class: 8  
 IATA-Class: 8  
 IATA-Label: 8  
 IMDG-Class: 8
- 14.4. Packing group  
 ADR-Packing Group: III  
 IATA-Packing group: III  
 IMDG-Packing group: III
- 14.5. Environmental hazards  
 Marine pollutant: No
- 14.6. Special precautions for user  
 ADR-Tunnel Restriction Code: E  
 IMDG-Technical name: Corrosive liquid, acidic, organic, n.o.s. (hydroxyethylidene diphosphonic acid in solution), 8, III  
 IMDG-EMS: F-A, S-B
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code  
 No

### SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture  
 Dir. 98/24/EC (Risks related to chemical agents at work)  
 Dir. 2000/39/EC (Occupational exposure limit values)  
 Regulation (EC) n. 1907/2006 (REACH)  
 Regulation (EC) n. 1272/2008 (CLP)  
 Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013  
 Regulation (EU) 2015/830  
 Regulation (EU) n. 286/2011 (ATP 2 CLP)  
 Regulation (EU) n. 618/2012 (ATP 3 CLP)  
 Regulation (EU) n. 487/2013 (ATP 4 CLP)  
 Regulation (EU) n. 944/2013 (ATP 5 CLP)  
 Regulation (EU) n. 605/2014 (ATP 6 CLP)  
 Regulation (EU) n. 2015/1221 (ATP 7 CLP)  
 Regulation (EU) n. 2016/918 (ATP 8 CLP)  
 Regulation (EU) n. 2016/1179 (ATP 9 CLP)
- Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:  
 Restrictions related to the product:  
 Restriction 3

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Restrictions related to the substances contained:

No restriction.

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

### SECTION 16: Other information

Full text of phrases referred to in Section 3:

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

Hazard class and hazard category	Code	Description
Met. Corr. 1	2.16/1	Substance or mixture corrosive to metals, Category 1
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Corr. 1A	3.2/1A	Skin corrosion, Category 1A
Eye Dam. 1	3.3/1	Serious eye damage, Category 1

Paragraphs modified from the previous revision:

SECTION 2: Hazards identification

SECTION 3: Composition/information on ingredients

SECTION 4: First aid measures

SECTION 6: Accidental release measures

SECTION 8: Exposure controls/personal protection

SECTION 9: Physical and chemical properties

SECTION 10: Stability and reactivity

SECTION 11: Toxicological information

SECTION 12: Ecological information

SECTION 14: Transport information

SECTION 15: Regulatory information

SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Skin Corr. 1A, H314	On basis of test data (pH)
Eye Dam. 1, H318	On basis of test data (pH)

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

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The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.