

Safety Data Sheet PM-620 GREASE KILLER



Safety Data Sheet dated 19/1/2022, version 2

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

- 1.1. Product identifier
Trade name: PM-620 GREASE KILLER
- 1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use:
Flocculant and coagulant in water and waste 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:
regulatory@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)
 Warning, Eye Irrit. 2, Causes serious eye irritation.

Adverse physicochemical, human health and environmental effects:

No other hazards

- 2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

H319 Causes serious eye irritation.

Precautionary statements:

P102 Keep out of reach of children.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves and eye/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER if you feel unwell.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Contains

Lipase, triacylglycerol

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

None

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2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration $\geq 0.1\%$

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
$\geq 3\%$ - $< 5\%$	Alcohols, C12-14 ethoxylated propoxylated	CAS: 68439-51-0	 3.1/4/Oral Acute Tox. 4 H302 4.1/C3 Aquatic Chronic 3 H412
$\geq 1\%$ - $< 3\%$	Docusate sodium	CAS: 577-11-7 EC: 209-406-4 REACH No.: 01-21194912 96-29-XXXX	 3.2/2 Skin Irrit. 2 H315  3.3/1 Eye Dam. 1 H318
$\geq 0.5\%$ - $< 1\%$	ethanol; ethyl alcohol	Index number: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 REACH No.: 01-21194576 10-43-XXXX	 2.6/2 Flam. Liq. 2 H225
$\geq 0.5\%$ - $< 1\%$	Lipase, triacylglycerol	CAS: 9001-62-1 EC: 232-619-9 REACH No.: 01-21199729 39-13-XXXX	 3.4.1/1 Resp. Sens. 1 H334

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.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

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 under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

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: None

SECTION 5: Firefighting measures

5.1. Extinguishing media

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Suitable extinguishing media:

Carbon dioxide, dry powder, foam.

Extinguishing media which must not be used for safety reasons:

Water jet.

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 .

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.

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

No smoking. Keep away from food, drink and animal feed.

Use appropriate personal protective equipment. Refer to paragraph 8.

Prevent entry of unauthorized persons.

Advice on general occupational hygiene:

Follow legislation on safety and health at work.

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.

None in particular.

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ethanol; ethyl alcohol - CAS: 64-17-5

ACGIH - STEL: 1000 ppm - Notes: A3 - URT irr

DNEL Exposure Limit Values

N.A.

PNEC Exposure Limit Values

N.A.

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8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

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:
Physical state:	Liquid	--	--
Colour:	Light brown	--	--
Odour:	Slightly characteristic	--	--
Melting point/freezing point:	Not available	--	--
Boiling point or initial boiling point and boiling range:	Not available	--	--
Flammability:	Non-flammable	--	--
Lower and upper explosion limit:	Not available	--	--
Flash point:	Not available	--	--
Auto-ignition temperature:	Not available	--	--
Decomposition temperature:	Not available	--	--
pH:	7 - 8	--	--
Kinematic viscosity:	Not Relevant	--	--
Solubility in water:	Soluble in water in all proportions	--	--
Solubility in oil:	Not Relevant	--	--
Partition coefficient n-octanol/water (log value):	Not available	--	--
Vapour pressure:	Not available	--	--
Density and/or relative density:	1.010 - 1.030 (20°C)	--	--
Relative vapour density:	Not available	--	--
Particle characteristics:			
Particle size:	Not Relevant	--	--

9.2. Other information

Properties	Value	Method:	Notes:
Explosive properties:	No explosive	--	--
Evaporation rate:	Not available	--	--

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Oxidizing properties:	Non oxidizing	--	--
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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
None
- 10.4. Conditions to avoid
Avoid excessive heat for prolonged periods. Avoid any ignition source and contact with water/moisture.
- 10.5. Incompatible materials
Strong acids and bases. Strong oxidizing agents and reducing agents.
- 10.6. Hazardous decomposition products
Oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological information of the product:

N.A.

Toxicological information of the main substances found in the product:

Alcohols, C12-14 ethoxylated propoxylated - CAS: 68439-51-0

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 300 mg/kg

Docusate sodium - CAS: 577-11-7

a) acute toxicity:

Test: LD50 - Route: Skin - Species: Rabbit > 10 g/kg

Test: LD50 - Route: Oral - Species: Rat = 1900 mg/kg

ethanol; ethyl alcohol - CAS: 64-17-5

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 124700 mg/m³ - Duration: 4h

If not differently specified, the information required in Regulation (EU)2020/878 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.

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration $\geq$ 0.1%

SECTION 12: Ecological information

12.1. Toxicity

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

Alcohols, C12-14 ethoxylated propoxylated - CAS: 68439-51-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 3.1 mg/l - Duration h: 96 - Notes: OECD 203

Endpoint: EC50 - Species: Daphnia = 1-10 mg/l - Duration h: 48

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- Endpoint: EC50 - Species: Algae = 1-10 mg/l - Duration h: 72
 Docusate sodium - CAS: 577-11-7
- a) Aquatic acute toxicity:
 Endpoint: EC50 - Species: Daphnia = 43 mg/l - Duration h: 48
 Endpoint: LC50 - Species: Onchorhynchus mykiss = 28 mg/l - Duration h: 96
 ethanol; ethyl alcohol - CAS: 64-17-5
- a) Aquatic acute toxicity:
 Endpoint: EC50 - Species: Algae = 17921 mg/l - Duration h: 96
 Endpoint: LC50 - Species: Crustaceans = 25.5 mg/l - Duration h: 48
- b) Aquatic chronic toxicity:
 Endpoint: NOEC - Species: Algae = 14 Ppm - Duration h: 96
 Endpoint: NOEC - Species: Daphnia = 0.1 ml/l - Notes: 21 days
- 12.2. Persistence and degradability
 Alcohols, C12-14 ethoxylated propoxylated - CAS: 68439-51-0
 Biodegradability: Easily biodegradable
- 12.3. Bioaccumulative potential
 Docusate sodium - CAS: 577-11-7
 Bioaccumulation: Not much bioaccumulative - Test: BCF - Bioconcentration factor 9.33
 ethanol; ethyl alcohol - CAS: 64-17-5
 Bioaccumulation: Not much bioaccumulative - Test: Kow - Partition coefficient -0.35
- 12.4. Mobility in soil
 N.A.
- 12.5. Results of PBT and vPvB assessment
 vPvB Substances: None - PBT Substances: None
- 12.6. Endocrine disrupting properties
 No endocrine disruptor substances present in concentration $\geq 0.1\%$
- 12.7. Other adverse effects
 None

SECTION 13: Disposal considerations

- 13.1. Waste treatment methods
 Recover if possible. 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 or ID number
 Not classified as dangerous in the meaning of transport regulations.
- 14.2. UN proper shipping name
 N.A.
- 14.3. Transport hazard class(es)
 N.A.
- 14.4. Packing group
 N.A.
- 14.5. Environmental hazards
 Marine pollutant: No
- 14.6. Special precautions for user
 N.A.
- 14.7. Maritime transport in bulk according to IMO instruments
 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)

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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) n. 2020/878
 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)
 Regulation (EU) n. 2017/776 (ATP 10 CLP)
 Regulation (EU) n. 2018/669 (ATP 11 CLP)
 Regulation (EU) n. 2018/1480 (ATP 13 CLP)
 Regulation (EU) n. 2019/521 (ATP 12 CLP)
 Regulation (EU) n. 2020/217 (ATP 14 CLP)
 Regulation (EU) n. 2020/1182 (ATP 15 CLP)
 Regulation (EU) n. 2021/643 (ATP 16 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

Restriction 40

Restrictions related to the substances contained:

Restriction 75

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:

H302 Harmful if swallowed.

H412 Harmful to aquatic life with long lasting effects.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H225 Highly flammable liquid and vapour.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Hazard class and hazard category	Code	Description
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Resp. Sens. 1	3.4.1/1	Respiratory Sensitisation, Category 1
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

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This safety data sheet has been completely updated in compliance to Regulation 2020/878.

Paragraphs modified from the previous revision:

- SECTION 1: Identification of the substance/mixture and of the company/undertaking
- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 7: Handling and storage
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 13: Disposal considerations
- 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
Eye Irrit. 2, H319	Calculation method

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

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.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
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.

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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.