



Safety Data Sheet dated 4/3/2022, version 3

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

1.1. Product identifier

Trade name: PM-582 POLICHLOR LINER 200

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

Recommended use:

Specific uses: Biocidal product, disinfectant (type 2).

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)

- Danger, Ox. Sol. 2, May intensify fire; oxidiser.
- Warning, Aquatic Acute 1, Very toxic to aquatic life.
- Warning, Eye Irrit. 2, Causes serious eye irritation.
- Warning, Acute Tox. 4, Harmful if swallowed.
- Warning, STOT SE 3, May cause respiratory irritation.
- Warning, Aquatic Chronic 1, Very toxic to aquatic life with long lasting effects.

EUH031 Contact with acids liberates toxic gas.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H272 May intensify fire; oxidiser.

H319 Causes serious eye irritation.

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H302 Harmful if swallowed.

H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P210+P370+P378 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. In case of fire, use water in large quantities to extinguish.

P270+P261 Do not eat, drink or smoke when using this product. Avoid breathing dust.

P280+P264 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. Wash hands thoroughly after handling.

P403+P233+P102+P405 Store in a well-ventilated place. Keep container tightly closed. Keep out of reach of children. Store locked up.

P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/container as hazardous waste through an authorized waste management company, in accordance with current regulations.

Special Provisions:

EUH031 Contact with acids liberates toxic gas.

EUH206 Warning! Do not use together with other products. May release dangerous gases (chlorine).

PACK2 The packing must have tactive indications of danger for blind people.

Contains

symclosene; trichloroisocyanuric acid; trichloro-1,3,5-triazinetrion

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

None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 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
>= 90%	symclosene; trichloroisocyanuric acid; trichloro-1,3,5-triazinetr ion		613-031-00-5 87-90-1 201-782-8 02-21196799 61-22-0000	 2.14/2 Ox. Sol. 2 H272 3.1/4/Oral Acute Tox. 4 H302 3.3/2 Eye Irrit. 2 H319 3.8/3 STOT SE 3 H335 4.1/C1 Aquatic Chronic 1 H410 EUH031
>= 1% - < 3%	adipic acid	Index number: CAS: EC: REACH No.:	607-144-00-9 124-04-9 204-673-3 01-21194575 61-38-0006	3.3/2 Eye Irrit. 2 H319
>= 1% - < 3%	Aluminium sulphate	CAS: EC: REACH No.:	10043-01-3 233-135-0 01-21195315 38-36-XXXX	2.16/1 Met. Corr. 1 H290 3.3/1 Eye Dam. 1 H318



>= 0.1%	boric acid	Index	005-007-00-2	3.7/1B Repr. 1B H360
- <		number:		
0.25%		CAS:	10043-35-3	
		EC:	233-139-2	
		REACH No.:	01-21194866	
			83-25-0000	

SVHC, PBT, vPvB, endocrine disruptor substances:

>= 0.1% - < 0.25% boric acid

REACH No.: 01-2119486683-25-0000, Index number: 005-007-00-2, CAS: 10043-35-3,

EC: 233-139-2

SVHC

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 opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do NOT induce vomiting.

Give nothing to eat or drink.

In case of Inhalation:

In case of inhalation, consult a doctor immediately and show him packing or label.

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

Suitable extinguishing media:

In case of fire, use a CO2 fire extinguisher to extinguish.

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.

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.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

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Use appropriate respiratory protection.

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.

Use localized ventilation system.

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

Always keep in a well ventilated place.

Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

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.

Keep away from acids.

Keep away from combustible materials.

Store into the original container. Keep the container properly sealed and labeled.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

adipic acid - CAS: 124-04-9

ACGIH - TWA(8h): 5 mg/m3 - Notes: URT irr, ANS impair

boric acid - CAS: 10043-35-3

ACGIH - TWA(8h): 2 mg/m3 - STEL: 6 mg/m3 - Notes: (I), A4 - URT irr

DNEL Exposure Limit Values

N.A.

PNEC Exposure Limit Values

N.A.

8.2. Exposure controls

Eye protection:

Full safety glasses according to regulation EN 166.

Protection for skin:

Chemical protection clothing.

Protection for hands:

Protective gloves according to regulation EN 374.

Material: PVC, neoprene or rubber.



Respiratory protection:

Only if dust is present in the air:

Full mask (EN136) with chlorine filter for B2 and P2 or P3 powder (EN 141).

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:	Tablet		
Colour:	White		
Odour:	Slight chlorine odour		
Odour threshold:	Not Relevant		
Melting point/freezing	246,8 °C with		
point:	decomposition		
Boiling point or initial	Not available		
boiling point and boiling			
range:			
Flammability:	N.A.		
Lower and upper explosion limit:	Not applicable		
Flash point:	Not available		
Auto-ignition temperature:	Not applicable (not flammable)		
Decomposition temperature:	246,8 °C		
pH:	2.7 - 3.3 (100 g/L)		
Kinematic viscosity:	N.A.		
Solubility in water:	14 g/L (20 °C)		
Solubility in oil:	Not Relevant		
Partition coefficient n-octanol/water (log value):	log Pow 0,94		
Vapour pressure:	< 0,00002 hPa (20 °C)		
Density and/or relative density:	Not available		
Relative vapour density:	Not available		

Particle characteristics:

9.2. Other information

Properties	Value	Method:	Notes:
Explosive properties:	No explosive		
Evaporation rate:	Not available		
Miscibility:	Not Relevant		
Conductivity:	Not Relevant		
Viscosity:	Not applicable (solid)		
Oxidizing properties:	Oxidizing		



SECTION 10: Stability and reactivity

10.1. Reactivity

Oxidizing product.

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

Reacts with water (in small quantities that can wet the product, but is needed in large quantities in fire-fighting).

10.4. Conditions to avoid

Avoid humidity and temperatures above 50 °C.

10.5. Incompatible materials

Oxidizing and reducing agents, acids, alkalis, metals, nitrogen, oils, fats, peroxides, cationic surfactants, etc.

10.6. Hazardous decomposition products

In combination with the above products,

decomposes and releases a lot of heat, chlorine, nitrogen trichloride, chlorine oxides, etc.

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:

symclosene; trichloroisocyanuric acid; trichloro-1,3,5-triazinetrion - CAS: 87-90-1

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 787-868 mg/kg - Source: EPA OPP 81-1

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg - Source: EPA OPP 81-2

Test: LC50 - Route: Inhalation - Species: Rat = 0.09-0.29 mg/l - Source: Eq. OECD 403

b) skin corrosion/irritation:

Test: Skin Corrosive - Route: Skin - Species: Rabbit Positive - Source: EPA OPP 81-5

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Species: Guinea pig Negative - Source: OECD 406

e) germ cell mutagenicity:

Test: Mutagenesis - Species: Generic Bacteria Negative - Source: EPA 163.84-1, 43

FR 37388 (in vitro)

Test: Mutagenesis - Species: Mammal Negative - Source: Eq. UE B.17 (in vitro)

Test: Chromosomal aberrations - Species: Rat Negative - Source: Eq. OECD 475 (in

vivo)

f) carcinogenicity:

Test: Carcinogenicity - Species: Rat Negative - Source: UE B33

adipic acid - CAS: 124-04-9

a) acute toxicity:

Test: LD50 - Route: Skin - Species: Rabbit > 7940 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 7.7 mg/l - Duration: 4h - Source: BASF

essay

Test: LD50 - Route: Oral - Species: Rat = 5560 mg/kg - Source: BASF essay

Aluminium sulphate - CAS: 10043-01-3

a) acute toxicity:

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg - Duration: 24h - Source:

OECD 402

Test: LD50 - Route: Oral - Species: Mouse = 980 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 5 mg/l - Duration: 4h - Source: OECD

403

c) serious eye damage/irritation:

Test: Eye Corrosive Yes

boric acid - CAS: 10043-35-3

a) acute toxicity:



Test: LD50 - Route: Oral - Species: Rat = 3450 mg/kg - Source: OCDE 401

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 2 mg/l - Source: OCDE 403

g) reproductive toxicity:

Test: NOAEL (Fertility) - Route: Oral - Species: Rat = 100 mg/kg/day

Test: NOAEL (Development) - Route: Oral - Species: Rat = 55 mg/kg - Source: OCDE

414

Test: Reproductive Toxicity Positive

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;
- i) aspiration hazard.
- 11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment. symclosene; trichloroisocyanuric acid; trichloro-1,3,5-triazinetrion - CAS: 87-90-1

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Lepomis macrochirus = 0.23 mg/l - Duration h: 96

Endpoint: LC50 - Species: Salmo gairdneri = 0.24 mg/l - Duration h: 96 - Notes: EPA

OTS 797.1400

Endpoint: EC50 - Species: Daphnia = 0.21 mg/l - Duration h: 48

Endpoint: NOEC - Species: Algae 2 0.50 mg/l - Duration h: 3

adipic acid - CAS: 124-04-9

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Daphnia = 46 mg/l - Duration h: 48 - Notes: Directive 202,

part 1 OCDE

Endpoint: EC50 - Species: Pseudokirchneriella subcapitata = 59 mg/l - Duration h: 72 -

Notes: Directive 201, OCDE, static

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 6.3 mg/l - Notes: 21 days, Directive 211 OCDE

Aluminium sulphate - CAS: 10043-01-3

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia > 200 mg/l - Duration h: 48 - Notes: OECD 202 Endpoint: NOEC - Species: Fish > 1000 mg/l - Duration h: 96 - Notes: OECD 203

Endpoint: EC50 - Species: Algae = 5.8 mg/l - Notes: 26 days

12.2. Persistence and degradability

symclosene; trichloroisocyanuric acid; trichloro-1,3,5-triazinetrion - CAS: 87-90-1

Biodegradability: Easily biodegradable - Test: 301 OCDE - Duration: 28 days - %: 2

adipic acid - CAS: 124-04-9

Biodegradability: Easily biodegradable

Aluminium sulphate - CAS: 10043-01-3

Biodegradability: Totally biodegradable

12.3. Bioaccumulative potential

adipic acid - CAS: 124-04-9



Bioaccumulation: Not bioaccumulative

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 >= 0.1%

12.7. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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 or ID number

ADR-UN number: 2468 IATA-Un number: 2468 IMDG-Un number: 2468

14.2. UN proper shipping name

ADR-Shipping Name: Trichloroisocyanuric acid, dry, 5.1, II IATA-Technical name: Trichloroisocyanuric acid, dry, 5.1, II IMDG-Technical name: Trichloroisocyanuric acid, dry, 5.1, II

14.3. Transport hazard class(es)

ADR-Class: 5.1 ADR-Label: 5.1 IATA-Class: 5.1 IATA-Label: 5.1 IMDG-Class: 5.1

14.4. Packing group

ADR-Packing Group: Ш IATA-Packing group: Ш IMDG-Packing group: Ш

14.5. Environmental hazards

Marine pollutant: Marine pollutant

14.6. Special precautions for user

IMDG-Technical name: Trichloroisocyanuric acid, dry, 5.1, II

14.7. Maritime transport in bulk according to IMO instruments

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) 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

Restrictions related to the substances contained:

Restriction 30

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)

SVHC Substances:

Substances in candidate list (Art. 59 Reg. 1907/2006, REACH):

boric acid

Toxic to reproduction

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

N.A.

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:

H360 May damage fertility or the unborn child.

H272 May intensify fire: oxidiser.

H302 Harmful if swallowed.

H319 Causes serious eve irritation.

H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long lasting effects.

EUH031 Contact with acids liberates toxic gas.

H290 May be corrosive to metals.

H318 Causes serious eye damage.

Hazard class and hazard category	Code	Description
Ox. Sol. 2	2.14/2	Oxidising solid, Category 2
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
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Repr. 1B	3.7/1B	Reproductive toxicity, Category 1B
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1



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 4: First aid measures SECTION 5: Firefighting measures 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 14: Transport 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
Ox. Sol. 2, H272	On basis of test data
Aquatic Acute 1, H400	Calculation method
Eye Irrit. 2, H319	Calculation method
Acute Tox. 4, H302	Calculation method
STOT SE 3, H335	Calculation method
Aquatic Chronic 1, H410	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.

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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.