








Safety Data Sheet dated 4/3/2022, version 7

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

- 1.1. Product identifier
 - Trade name: PM-503 DICHLOR SHOCK GR
 - CAS number: 51580-86-0
 - EC number: 220-767-7
 - The substance must not be registered according to REACH.
 - Index 67/548/EEC: 613-030-01-7
- 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)
 - Tel: (+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, Acute Tox. 4, Harmful if swallowed.
 -  Warning, Aquatic Acute 1, Very toxic to aquatic life.
 -  Warning, Eye Irrit. 2, Causes serious eye irritation.
 -  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:



Warning

Hazard statements:

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H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P261+P271 Avoid breathing dust. Use only outdoors or in a well-ventilated area.
P270 Do not eat, drink or smoke when using this product.
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.
PACK2 The packing must have tactile indications of danger for blind people.
EUH206 Warning! Do not use together with other products. May release dangerous gases (chlorine).

Contains

troclosene sodium, dihydrate

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

None

2.3. Other hazards

This substance has no PBT, vPvB or endocrine disrupting properties

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization:	troclosene sodium, dihydrate
CAS number:	51580-86-0
EC number:	220-767-7

3.2. Mixtures

N.A.

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:

Give nothing to eat or drink.
Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

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

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- Irritation to corrosion of eyes, skin, mucous membranes, and respiratory tract.
 Dysphagia, drooling and vomiting (hematemesis after large ingestions).
 Glottis edema, pneumonitis, bronchospasm, pulmonary edema and aspiration pneumonia.
- 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:
 If swallowed, gastric emptying is not recommended, assess endoscopy.
 Contraindications: neutralization and activated charcoal.
 Symptomatic and support treatment.

SECTION 5: Firefighting measures

- 5.1. Extinguishing media
 Suitable extinguishing media:
 Water jet.
 Extinguishing media which must not be used for safety reasons:
 Dry chemicals, carbon dioxide, halogenated extinguishing agents.
- 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.
 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.

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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.

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

No occupational exposure limit available

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:

Particle filter device (DIN EN 143).

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:	Solid	--	--
Colour:	White	--	--
Odour:	Slight chlorine odour	--	--
Odour threshold:	Not Relevant	--	--
Melting point/freezing point:	Not available	--	--
Boiling point or initial boiling point and boiling range:	Not available	--	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	Not available	--	--
Flash point:	Not available	--	--
Auto-ignition temperature:	Not available	--	--
Decomposition temperature:	240 - 250 °C	--	--
pH:	5.5 - 7.0 (sol. 1%)	--	--
Kinematic viscosity:	N.A.	--	--
Solubility in water:	285 g/L (25 °C)	--	--

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Solubility in oil:	Not Relevant	--	--
Partition coefficient n-octanol/water (log value):	Not available	--	--
Vapour pressure:	Not available	--	--
Density and/or relative density:	0.9 - 1.0 (20 °C)	--	--
Relative vapour density:	Not available	--	--

Particle characteristics:

Particle size:		--	--
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9.2. Other information

Properties	Value	Method:	Notes:
Explosive properties:	No explosive	--	--
Evaporation rate:	Not available	--	--
Miscibility:	Not Relevant	--	--
Conductivity:	Not Relevant	--	--
Oxidizing properties:	Non oxidizing	--	--
Fat Solubility:	Not Relevant	--	--

SECTION 10: Stability and reactivity

- 10.1. Reactivity
In contact with acids liberates toxic gas.
- 10.2. Chemical stability
Stable under normal conditions
- 10.3. Possibility of hazardous reactions
Wet material can generate nitrogen trichloride.
- 10.4. Conditions to avoid
Excessive heat. Humidity.
- 10.5. Incompatible materials
Strong acids and oxidizing agents. Strong alkalis.
- 10.6. Hazardous decomposition products
Oxides of carbon and oxides of nitrogen.

SECTION 11: Toxicological information

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

Toxicological information of the substance:

troclosene sodium, dihydrate - CAS: 51580-86-0

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 735 mg/kg

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

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:

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This substance has no endocrine disrupting properties

SECTION 12: Ecological information

- 12.1. Toxicity
 Adopt good working practices, so that the product is not released into the environment.
 troclosen sodium, dihydrate - CAS: 51580-86-0
 a) Aquatic acute toxicity:
 Endpoint: LC50 - Species: Lepomis macrochirus = 0.40 Ppm
 Endpoint: EC50 - Species: Daphnia > 0.05-0.1 Ppm
- 12.2. Persistence and degradability
 troclosen sodium, dihydrate - CAS: 51580-86-0
 Biodegradability: Easily biodegradable
- 12.3. Bioaccumulative potential
 troclosen sodium, dihydrate - CAS: 51580-86-0
 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 $\geq 0.1\%$
- 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
 ADR-UN number: 3077
 IATA-Un number: 3077
 IMDG-Un number: 3077
- 14.2. UN proper shipping name
 ADR-Shipping Name: Environmentally hazardous substance, solid, n.o.s. (troclosen sodium, dihydrate), 9, III
 IATA-Technical name: Environmentally hazardous substance, solid, n.o.s. (troclosen sodium, dihydrate), 9, III
 IMDG-Technical name: Environmentally hazardous substance, solid, n.o.s. (troclosen sodium, dihydrate), 9, III
- 14.3. Transport hazard class(es)
 ADR-Class: 9
 ADR-Label: 9
 IATA-Class: 9
 IMDG-Class: 9
- 14.4. Packing group
 ADR-Packing Group: III
 IATA-Packing group: III
 IMDG-Packing group: III
- 14.5. Environmental hazards
 Marine pollutant: Marine pollutant
- 14.6. Special precautions for user
 IMDG-Technical name: Environmentally hazardous substance, solid, n.o.s. (troclosen sodium, dihydrate), 9, III

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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)
 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:

No restriction.

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):

N.A.

15.2. Chemical safety assessment

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

SECTION 16: Other information

Hazard class and hazard category	Code	Description
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
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

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SECTION 2: Hazards identification
 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 15: Regulatory information
 SECTION 16: Other information

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.
 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.