

SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : FILTERCLEAN TAB_1KG_414956.

Product code : 5513119.

UFI : XU62-F6T3-410G-CYM4

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

Product for disinfection and oxidation of pool water

1.3. Details of the supplier of the safety data sheet

Registered company name : BAYROL Deutschland GmbH (UK).

Address : Robert-Koch-Straße 4.82152.Planegg.GERMANY.

Telephone : +49 (0) 89 857 01-0. Fax : +49 (0) 89 857 01-276.

sds@bayrol.eu

www.bayrol.de

United Kingdom Legal Entity : Holt Lloyd International Limited

Unit 100, Barton Dock Road

Stretford, Manchester M32 0YQ

1.4. Emergency telephone number : (+44)(0)1865407333.

Association/Organisation : NCEC.

Other emergency numbers

Ireland : National Poisons Information Centre (+353)(0)18092166

Eitrunarmiðstöð Landspítalans (Icelandic University Hospital): 00 354 543 22 22

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Acute oral toxicity, Category 4 (Acute Tox. 4, H302).

Eye irritation, Category 2 (Eye Irrit. 2, H319).

Specific target organ toxicity (single exposure), Category 3 (STOT SE 3, H335).

Hazardous to the aquatic environment - Acute hazard, Category 1 (Aquatic Acute 1, H400).

Hazardous to the aquatic environment - Chronic hazard, Category 1 (Aquatic Chronic 1, H410).

Contact with acids liberates toxic gas (EUH031).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

2.2. Label elements

Biocidal mixture (see section 15).

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS09



GHS07

Signal Word :

WARNING

Product identifiers :

EC 610-700-3 TROCLOSENE SODIUM, DIHYDRATE

613-031-00-5 SYMCLOSENE

Additional labeling :

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

Hazard statements :

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long lasting effects.
 EUH031 Contact with acids liberates toxic gas.
 Precautionary statements - General :
 P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 Precautionary statements - Prevention :
 P270 Do not eat, drink or smoke when using this product.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/eye protection
 Precautionary statements - Response :
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308 + P311 IF exposed or concerned: Call a POISON CENTER/doctor.
 Precautionary statements - Storage :
 P405 Store locked up.
 Precautionary statements - Disposal :
 P501 Dispose of contents/ container to an approved waste disposal plant.

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>
 The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annex XIII of the REACH regulations EC 1907/2006.
 The mixture does not contain substances $\geq 0.1\%$ with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition :

| Identification | Classification (EC) 1272/2008 | Note | % |
|--|--|------|------------------|
| CAS: 51580-86-0 EC: 610-700-3 TROCLOSENE SODIUM, DIHYDRATE | GHS07, GHS09 Wng Acute Tox. 4, H302 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1 EUH:031 | | 59,9 % |
| INDEX: 613-031-00-5 CAS: 87-90-1 EC: 201-782-8 SYMCLOSENE | GHS03, GHS07, GHS09 Dgr Ox. Sol. 2, H272 Acute Tox. 4, H302 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1 EUH:031 | | 40 % |
| CAS: 1332-58-7 EC: 310-194-1 KAOLIN | | [1] | 0 \leq x % < 1 |

Specific concentration limits:

| Identification | Specific concentration limits | ATE |
|----------------------------------|-------------------------------|---------------------------|
| CAS: 51580-86-0 EC: 610-700-3 | | oral: ATE = 1823 mg/kg BW |
| TROCLOSENE SODIUM, DIHYDRATE | | |

Information on ingredients :

(Full text of H-phrases: see section 16)

[1] Substance for which maximum workplace exposure limits are available.

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. description of first aid measures

In the event of exposure by inhalation :

In the event of massive inhalation of dust, remove the person exposed to fresh air. Keep warm and at rest.

If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

In the event of splashes or contact with eyes :

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

In the event of splashes or contact with skin :

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In case of contact with skin wash off immediately with plenty of water.

In the event of swallowing :

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water, administer activated medical charcoal and consult a doctor.

Seek medical attention, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

Do not induce vomiting.

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

May cause irritation of respiratory tract.

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

Information for the doctor :

Treat symptoms.

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

Suitable methods of extinction

In the event of a fire, use :

- water
- carbon dioxide (CO₂)
- dry sand

Unsuitable methods of extinction

In the event of a fire, do not use :

- sprayed water or water mist
- foam

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO₂)
- chlorine (Cl₂)
- nitrogen oxide (NO)

5.3. Advice for firefighters

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply. Wear full protective clothing.

Additional information

Cool endangered containers with water spray jet. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

| | | | | | | |
|---|---------------|--------|----------------|--------------|------------|----|
| 1332-58-7 | - | 10 | - | - | - | 25 |
| - ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) : | | | | | | |
| CAS | TWA : | STEL : | Ceiling : | Definition : | Criteria : | |
| 1332-58-7 | 2 (E.R) mg/m3 | | | A4 | | |
| - UK / WEL (Workplace exposure limits, EH40/2005, Fourth Edition 2020) : | | | | | | |
| CAS | TWA : | STEL : | Ceiling : | Definition : | Criteria : | |
| 1332-58-7 | 2 mg/m3 | | | | | |
| - Switzerland (Suva 2021) : | | | | | | |
| CAS | VME | VLE | Valeur plafond | Notations | | |
| 1332-58-7 | 3 ppm | | | | | |

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Before handling powders or dust emission, wear mask goggles in accordance with standard EN166.

Prescription glasses are not considered as protection.

Provide eyewash stations in facilities where the product is handled constantly.

- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- Butyl Rubber (Isobutylene-isoprene copolymer)

Recommended properties :

Suitable materials (recommended: protection index 6, >480 minutes permeation time according to EN 374)

Nitrile-butadiene rubber (NBR) - 0.4 mm layer thickness

Butyl rubber (butyl) - 0.7mm layer thickness

In view of the many different types, the manufacturers' directions for use must be followed

- Body protection

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

- Respiratory protection

Avoid inhaling dust.

If the ventilation is insufficient, wear appropriate breathing apparatus.

When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.

Type of FFP mask :

Wear a disposable half-mask dust filter in accordance with standard EN149/A1.

Category :

- FFP1

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :

- A1 (Brown)

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state

| | |
|------------------|--------|
| Physical state : | Solid. |
| Form : | Tablet |

Colour

blue

Odour

| | |
|-------------------|-------------|
| Odour threshold : | Not stated. |
| slight chlorine | |

Melting point

| | |
|-------------------------------|----------------|
| Melting point/melting range : | Not specified. |
|-------------------------------|----------------|

Freezing point

| | |
|-----------------------------------|-------------|
| Freezing point / Freezing range : | Not stated. |
|-----------------------------------|-------------|

Boiling point or initial boiling point and boiling range

| | |
|-------------------------------|----------------|
| Boiling point/boiling range : | Not specified. |
|-------------------------------|----------------|

Flammability

| | |
|-----------------------------|-------------|
| Flammability (solid, gas) : | Not stated. |
|-----------------------------|-------------|

Lower and upper explosion limit

| | |
|---|-------------|
| Explosive properties, lower explosivity limit (%) : | Not stated. |
|---|-------------|

| | |
|---|-------------|
| Explosive properties, upper explosivity limit (%) : | Not stated. |
|---|-------------|

Flash point

| | |
|------------------------|---------------|
| Flash point interval : | Not relevant. |
|------------------------|---------------|

Auto-ignition temperature

| | |
|-----------------------------|----------------|
| Self-ignition temperature : | Not specified. |
|-----------------------------|----------------|

Decomposition temperature

| | |
|---|---------|
| Decomposition point/decomposition range : | 245 °C. |
|---|---------|

pH

| | |
|------|---------------|
| pH : | Not relevant. |
|------|---------------|

| | |
|-------------------------|-------------|
| pH (aqueous solution) : | Not stated. |
|-------------------------|-------------|

Kinematic viscosity

| | |
|-------------|-------------|
| Viscosity : | Not stated. |
|-------------|-------------|

Solubility

| | |
|--------------------|----------|
| Water solubility : | Soluble. |
|--------------------|----------|

| | |
|------------------|-------------|
| Fat solubility : | Not stated. |
|------------------|-------------|

Partition coefficient n-octanol/water (log value)

| | |
|--|-------------|
| Partition coefficient: n-octanol/water : | Not stated. |
|--|-------------|

Vapour pressure

| | |
|--------------------------|---------------|
| Vapour pressure (50°C) : | Not relevant. |
|--------------------------|---------------|

Density and/or relative density

| | |
|-----------|-------------|
| Density : | Not stated. |
|-----------|-------------|

Relative vapour density

| | |
|------------------|-------------|
| Vapour density : | Not stated. |
|------------------|-------------|

9.2. Other information

No data available.

9.2.1. Information with regard to physical hazard classes

| | |
|-----------------|--|
| Oxidizer test : | Negative (non-oxidizing) according to test method UN O.1 |
|-----------------|--|

9.2.2. Other safety characteristics

No data available.

SECTION 10 : STABILITY AND REACTIVITY**10.1. Reactivity**

This mixture reacts with acids, releasing toxic gases in dangerous quantities.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Avoid :

- formation of dusts

10.5. Incompatible materials

Keep away from :

- acids

- oils
- combustible material
- organic material

Releases a toxic gas when in contact with acids.

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO2)
- chlorine (Cl2)
- nitrogen oxide (NO)
- hydrogen chloride (HCl)

SECTION 11 : TOXICOLOGICAL INFORMATION

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

Harmful if swallowed.

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

Respiratory tract irritation may occur, together with symptoms such as coughing, choking and breathing difficulties.

11.1.1. Substances

Acute toxicity :

TROCLOSENE SODIUM, DIHYDRATE (CAS: 51580-86-0)

Oral route : LD50 = 1823 mg/kg bodyweight/day
Species : Rat

Dermal route : LD50 > 5000 mg/kg bodyweight/day
Species : Rat

11.1.2. Mixture

No toxicological data available for the mixture.

11.2. Information on other hazards

SECTION 12 : ECOLOGICAL INFORMATION

Very toxic to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

12.1. Toxicity

12.1.1. Substances

TROCLOSENE SODIUM, DIHYDRATE (CAS: 51580-86-0)

Fish toxicity : LC50 = 0.24 mg/l
Factor M = 1
Duration of exposure : 96 h

Crustacean toxicity : EC50 = 0.196 mg/l
Factor M = 1
Duration of exposure : 48 h

Algae toxicity : EC50 > 5000 mg/l
Duration of exposure : 72 h

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

12.2.1. Substances

TROCLOSENE SODIUM, DIHYDRATE (CAS: 51580-86-0)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

No data available.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2021 - IMDG 2020 [40-20] - ICAO/IATA 2022 [63]).

14.1. UN number or ID number

3077

14.2. UN proper shipping name

UN3077=ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(troclosene sodium, dihydrate)

14.3. Transport hazard class(es)

- Classification :



9

14.4. Packing group

III

14.5. Environmental hazards

- Environmentally hazardous material :



14.6. Special precautions for user

| ADR/RID | Class | Code | Pack gr. | Label | Ident. | LQ | Provis. | EQ | Cat. | Tunnel |
|---------|-------|------|----------|-------|--------|------|--------------------|----|------|--------|
| | 9 | M7 | III | 9 | 90 | 5 kg | 274 335 375 601 | E1 | 3 | - |

*Not subject to this regulation if Q <= 5 l / 5 kg (ADR 3.3.1 - DS 375)

| IMDG | Class | 2°Label | Pack gr. | LQ | EMS | Provis. | EQ | Stowage Handling | Segregati on |
|------|-------|---------|----------|------|----------|---------------------------|----|---------------------|-----------------|
| | 9 | - | III | 5 kg | F-A. S-F | 274 335 966 967 969 | E1 | Category A SW23 | - |

*Not subject to this regulation if Q <= 5 l / 5 kg (IMDG 3.3.1 - 2.10.2.7)

| IATA | Class | 2°Label | Pack gr. | Passager | Passager | Cargo | Cargo | note | EQ |
|------|-------|---------|----------|----------|----------|-------|--------|-------------------------------|----|
| | 9 | - | III | 956 | 400 kg | 956 | 400 kg | A97 A158 A179 A197 A215 | E1 |
| | 9 | - | III | Y956 | 30 kg G | - | - | A97 A158 A179 A197 A215 | E1 |

*Not subject to this regulation if Q <= 5 l / 5 kg (IATA 4.4.4 - DS A197)

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

Marine pollutant (IMDG 3.1.2.9):(troclosene sodium, dihydrate)

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2022/692 (ATP 18)

Container information:

Containers to be fitted with a tactile warning of danger (see EC Regulation No. 1272/2008, Annex II, Part 3).

The mixture does not contain any substance restricted under Annex XVII of Regulation (EC) No. 1907/2006 (REACH):

<https://echa.europa.eu/substances-restricted-under-reach>.

Particular provisions :

No data available.

Labelling for biocidal products (Regulation (UE) n° 528/2012) :

| Name | CAS | % | Product-type |
|--------------------|------------|-------------|--------------|
| TROCLOSENE SODIUM, | 51580-86-0 | 599.00 g/kg | 02 |
| DIHYDRATE | | | |
| SYMCLOSENE | 87-90-1 | 400.00 g/kg | 02 |

Product-type 2 : Disinfectants and algaecides not intended for direct application to humans or animals.

15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Wording of the phrases mentioned in section 3 :

| | |
|--------|---|
| H272 | May intensify fire; oxidiser. |
| H302 | Harmful if swallowed. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| EUH031 | Contact with acids liberates toxic gas. |

Abbreviations and acronyms :

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.

LC50 : The concentration of a test substance resulting in 50% lethality in a given period.

EC50 : The effective concentration of substance that causes 50% of the maximum response.

ECr50 : The effective concentration of substance that causes 50% reduction in growth rate.

REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.

ATE : Acute Toxicity Estimate

BW : Body Weight

UFI : Unique formulation identifier.

STEL : Short-term exposure limit

TWA : Time Weighted Averages

TMP : French Occupational Illness table

TLV : Threshold Limit Value (exposure)

AEV : Average Exposure Value.

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefahrdungsklasse (Water Hazard Class).

GHS07 : Exclamation mark

GHS09 : Environment

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.