

Safety data sheet

according to regulation 1907/2006 (REACH) + 2020/878 (EU)

Printing date 23.02.2024

Version number 1

Revision: 23.02.2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking*** 1.1 Product identifier***** Trade name: MiQro Tabs 2619-B (Open Circuit)***** UFI:** ME21-N0QQ-W00E-0MY6*** 1.2 Relevant identified uses of the substance or mixture and uses advised against** Disinfectant*** Technical function** Biocide*** Application of the substance / the mixture**

Suitable for use in the food industry.

(If applied according to the legal instructions for use)

Disinfectant

*** Uses advised against** Nebulising the product is not permitted.*** 1.3 Details of the supplier of the safety data sheet***** Manufacturer/Supplier:**

DRD bv

Wayenborgstraat 16

2800 Mechelen - België

Tel: +32 16 53 07 96 - Fax: +32 16 53 61 47

info@drd.be - www.drd.be

*** Further information obtainable from:** + 32 16 53 07 96*** 1.4 Emergency telephone number:**

National Poison Centre

België (Belgique) Centre Antipoisons-Antigifcentrum 070 245 245

Česká Republika (Czech Republic) Toxikologické informační středisko 0 22 49 192 93

Danmark (Denmark) Poison Information Center 0 82 12 12 12

Deutschland (Germany) Clinical Toxicology and Berlin Poison Information Centre 0 30 192 40

España (Spain) Servicio de Información Toxicológica 091 562 04 20

France Centre antipoison et de toxicovigilance de Paris 01 40 05 48 48

Ireland Poisons Information Centre of Ireland 01 809 2166

Italia (Italy) Centro Antiveleni Rome 06 499 70 698

Lietuvia (Lithuania) Environmental Protection Agency 370 70662008

Luxembourg Centre Antipoison 8002 5500

Magyarország (Hungary) Health Toxicological Information Service 080 20 11 99

Nederland Nationaal Vergiften Informatie Centrum 088 755 8000 (Uitsluitend bestemd om professionele hulpverleners te informeren bij acute vergiftigingen)

Norge (Norway) Department for Poisons Information 022 59 13 00

Österreich (Austria) Vergiftungsinformationszentrale 01 406 43 43

Polska (Poland) Centrum Toksykologii 022 619 66 54

Portugal Centro de Informação Antivenenos 800 250 250

România (Romania) Spitalul de Urgenta Floreasca 021 230 8000

Slovenská republika (Slovakia) National Toxicological Information Center 02 54 774 166

Schweiz (Swiss) Toxicological Information Centre 0 44 251 51 51

Sverige (Sweden) Giftinformationscentralen (Swedish Poisons Information Centre) 08 33 12 31

Suomi (Finland) Nødnummer Myrkytystietokeskus 09-471977

United Kingdom National Poison Centre – Poison Information Service 111

SECTION 2: Hazards identification*** 2.1 Classification of the substance or mixture***** Classification according to Regulation (EC) No 1272/2008**

Acute Tox. 4 H302 Harmful if swallowed.

Eye Irrit. 2 H319 Causes serious eye irritation.

(Contd. on page 2)

Safety data sheet

according to regulation 1907/2006 (REACH) + 2020/878 (EU)

Printing date 23.02.2024

Version number 1

Revision: 23.02.2024

Trade name: MiQro Tabs 2619-B (Open Circuit)

(Contd. of page 1)

STOT SE 3 H335 May cause respiratory irritation.
 Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

* 2.2 Label elements

* Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

* Hazard pictograms



GHS07 GHS09

* Signal word Warning

* Hazard-determining components of labelling:

troclosene sodium, dihydrate

* 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.

* Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P301 IF SWALLOWED:
 P330 Rinse mouth.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

* Additional information:

EUH031 Contact with acids liberates toxic gas.
 Contains biocidal products: troclosene sodium, dihydrate

* 2.3 Other hazards

* Results of PBT and vPvB assessment

* PBT: Not applicable.

* vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

* 3.2 Mixtures

* Description: Mixture of substances listed below with nonhazardous additions.

* Dangerous components:

CAS: 51580-86-0	troclosene sodium, dihydrate	75-100%
EINECS: 220-767-7	Aquatic Chronic 1, H410; Acute Tox. 4, H302; Eye Irrit. 2, H319; STOT SE 3, H335, EUH031	
Index number: 613-030-01-7		
Reg.nr.: 01-2119489371-33-0001		

* Additional information:

For the wording of the listed risk phrases refer to section 16. Product compositional ranges are shown for health, safety and environmental use and are not intended to form any part of a specification.

(Contd. on page 3)

Safety data sheet

according to regulation 1907/2006 (REACH) + 2020/878 (EU)

Printing date 23.02.2024

Version number 1

Revision: 23.02.2024

Trade name: MiQro Tabs 2619-B (Open Circuit)

(Contd. of page 2)

[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.

[2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006.

[3] Exempted: Annex V of Regulation (EC) No 1907/2006.

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

SECTION 4: First aid measures*** 4.1 Description of first aid measures**

* **General information:** Immediately remove any clothing soiled by the product.

* **After inhalation:** Supply fresh air; consult doctor in case of complaints.

* **After skin contact:** Generally the product does not irritate the skin.

* **After eye contact:** Rinse opened eye for several minutes under running water.

* **After swallowing:** Call for a doctor immediately.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures*** 5.1 Extinguishing media***** Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

*** 5.2 Special hazards arising from the substance or mixture** No further relevant information available.*** 5.3 Advice for firefighters**

* **Protective equipment:** Mouth respiratory protective device.

SECTION 6: Accidental release measures*** 6.1 Personal precautions, protective equipment and emergency procedures**

Mount respiratory protective device.

*** 6.2 Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

*** 6.3 Methods and material for containment and cleaning up:** Ensure adequate ventilation.*** 6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage*** 7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

When diluting always pour product into water and not vice versa.

(Contd. on page 4)

Safety data sheet

according to regulation 1907/2006 (REACH) + 2020/878 (EU)

Printing date 23.02.2024

Version number 1

Revision: 23.02.2024

Trade name: MiQro Tabs 2619-B (Open Circuit)

(Contd. of page 3)

- * **Information about fire - and explosion protection:** No special measures required.
- * **7.2 Conditions for safe storage, including any incompatibilities**
- * **Storage:**
- * **Requirements to be met by storerooms and receptacles:** No special requirements.
- * **Information about storage in one common storage facility:** Not required.
- * **Further information about storage conditions:**
Protect from frost.
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- * **Storage class:** 13
- * **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- * **8.1 Control parameters**
- * **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

* **DNELs****51580-86-0 trocloses sodium, dihydrate**

Oral	Long-term exposure - systemic effects	1.15 mg/kg bw/day (Consumer)
Dermal	Long-term exposure - systemic effects	1.15 mg/kg bw/day (Consumer)
		2.3 mg/kg bw/day (Worker)
Inhalative	Long-term exposure - systemic effects	1.99 mg/m ³ (Consumer)
		8.11 mg/m ³ (Worker)

* **PNECs****51580-86-0 trocloses sodium, dihydrate**

Freshwater	0.17 µg/l
Marinewater	1.52 mg/l
Intermittent releases	0.0017 mg/l
Sewage treatment plant	0.59 mg/l
Sediment (freshwater)	7.56 mg/kg dw
Soil	0.756 mg/kg dw

* **Additional information:** The lists valid during the making were used as basis.

- * **8.2 Exposure controls**
- * **Appropriate engineering controls** No further data; see section 7.
- * **Individual protection measures, such as personal protective equipment**
- * **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
- * **Respiratory protection:** Not necessary if room is well-ventilated.

(Contd. on page 5)

Trade name: MiQro Tabs 2619-B (Open Circuit)

(Contd. of page 4)

*** Hand protection**



Preventive skin protection by use of gloves is recommended.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

*** Material of gloves**



The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Suitability (penetration time, material thickness) for a specific workplace should be discussed with the manufacturer of the protective gloves.

*** Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

*** For the permanent contact gloves made of the following materials are suitable:**

- Butyl rubber: Penetration time >480 min - Recommended thickness: 0,4 mm
- Nitrile rubber: Penetration time >480 min - Recommended thickness: 0,35 mm
- PVC: Penetration time >480 min - Recommended thickness: 0,5 mm

*** For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

- Nitrile rubber. Penetration time 30 min - Recommended thickness: 0,13 mm

*** As protection from splashes gloves made of the following materials are suitable:**

- PVC (EN374)
- Nitrile rubber: 0.11 mm (EN374)

*** Eye/face protection**



Tightly sealed goggles

SECTION 9: Physical and chemical properties

*** 9.1 Information on basic physical and chemical properties**

*** General Information**

- | | |
|---|-----------------|
| * Physical state | Solid |
| * Colour: | White |
| * Odour: | Characteristic |
| * Odour threshold: | Not determined. |
| * Melting point/freezing point: | Undetermined. |
| * Boiling point or initial boiling point and boiling range | Undetermined. |
| * Flammability | Not determined. |
| * Lower and upper explosion limit | |
| * Lower: | Not determined. |

(Contd. on page 6)

Safety data sheet

according to regulation 1907/2006 (REACH) + 2020/878 (EU)

Printing date 23.02.2024

Version number 1

Revision: 23.02.2024

Trade name: MiQro Tabs 2619-B (Open Circuit)

(Contd. of page 5)

* Upper:	Not determined.
* Flash point (CCMP):	Not applicable.
* Auto-ignition temperature:	250 °C
* Decomposition temperature:	Not determined.
* pH at 20 °C	6.5
* Viscosity:	
* Kinematic viscosity	Not applicable.
* Dynamic:	Not applicable.
* Solubility	
* water:	Soluble.
* Partition coefficient n-octanol/water (log value)	Not determined.
* Vapour pressure:	Not applicable.
* Density and/or relative density	
* Density at 20 °C:	1 g/cm ³
* Relative density	Not determined.
* Vapour density	Not applicable.
* Particle characteristics	
See section 3.	

* 9.2 Other information	Product compositional ranges are shown for health, safety and environmental use and are not intended to form any part of a specification.
* Appearance:	
* Form:	Tablets
* Important information on protection of health and environment, and on safety.	
* Ignition temperature:	Product is not selfigniting.
* Explosive properties:	Product does not present an explosion hazard.
* Change in condition	
* Evaporation rate	Not applicable.

* Information with regard to physical hazard classes	
* Explosives	Void
* Flammable gases	Void
* Aerosols	Void
* Oxidising gases	Void
* Gases under pressure	Void
* Flammable liquids	Void
* Flammable solids	Void
* Self-reactive substances and mixtures	Void
* Pyrophoric liquids	Void
* Pyrophoric solids	Void
* Self-heating substances and mixtures	Void
* Substances and mixtures, which emit flammable gases in contact with water	Void
* Oxidising liquids	Void
* Oxidising solids	Void
* Organic peroxides	Void
* Corrosive to metals	Void

(Contd. on page 7)

EU

Safety data sheet

according to regulation 1907/2006 (REACH) + 2020/878 (EU)

Printing date 23.02.2024

Version number 1

Revision: 23.02.2024

Trade name: MiQro Tabs 2619-B (Open Circuit)

(Contd. of page 6)

* Desensitised explosives

Void

SECTION 10: Stability and reactivity

- * **10.1 Reactivity** No further relevant information available.
- * **10.2 Chemical stability**
- * **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- * **10.3 Possibility of hazardous reactions** Contact with acids releases toxic gases.
- * **10.4 Conditions to avoid** No further relevant information available.
- * **10.5 Incompatible materials:** No further relevant information available.
- * **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information* **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008*** **Acute toxicity** Harmful if swallowed.* **LD/LC50 values relevant for classification:****51580-86-0 trocloses sodium, dihydrate**

Oral LD50 1,671 mg/kg bw (Rat)

Dermal LD50 >5,000 mg/kg bw (Rat)

- * **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- * **Serious eye damage/irritation** Causes serious eye irritation.
- * **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- * **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- * **Carcinogenicity** Based on available data, the classification criteria are not met.
- * **Reproductive toxicity** Based on available data, the classification criteria are not met.
- * **STOT-single exposure** May cause respiratory irritation.
- * **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- * **Aspiration hazard** Based on available data, the classification criteria are not met.

* **11.2 Information on other hazards*** **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information* **12.1 Toxicity*** **Aquatic toxicity:****51580-86-0 trocloses sodium, dihydrate**

EC50/48h 0.28 mg/l (Daphnia Magna)

LC50/96h 0.22 mg/l (Oncorhynchus Mykiss)

- * **12.2 Persistence and degradability** No further relevant information available.
- * **12.3 Bioaccumulative potential** No further relevant information available.
- * **12.4 Mobility in soil** No further relevant information available.
- * **12.5 Results of PBT and vPvB assessment**
- * **PBT:** Not applicable.

(Contd. on page 8)

Safety data sheet

according to regulation 1907/2006 (REACH) + 2020/878 (EU)

Printing date 23.02.2024

Version number 1

Revision: 23.02.2024

Trade name: MiQro Tabs 2619-B (Open Circuit)

(Contd. of page 7)

- * **vPvB:** Not applicable.
- * **12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
- * **12.7 Other adverse effects**
- * **Additional ecological information:**
- * **General notes:**
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.

SECTION 13: Disposal considerations



- * **13.1 Waste treatment methods**
- * **Recommendation**



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- * **European waste catalogue**
The EC waste catalog number (EAC) can only be determined after the type of use by the end-user is known for this product.
- * **Uncleaned packaging:**
- * **Recommendation:** Disposal must be made according to official regulations.
- * **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- * **14.1 UN number or ID number**
- * **ADR/RID/ADN, IMDG, IATA** UN3077
- * **14.2 UN proper shipping name**
- * **ADR/RID/ADN** 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (troclosene sodium, dihydrate)
- * **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (troclosene sodium, dihydrate), MARINE POLLUTANT
- * **IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (troclosene sodium, dihydrate)
- * **14.3 Transport hazard class(es)**
- * **ADR/RID/ADN, IMDG, IATA**
-  
- * **Class** 9 Miscellaneous dangerous substances and articles.
- * **Label** 9

(Contd. on page 9)

Safety data sheet

according to regulation 1907/2006 (REACH) + 2020/878 (EU)

Printing date 23.02.2024

Version number 1

Revision: 23.02.2024

Trade name: MiQro Tabs 2619-B (Open Circuit)

(Contd. of page 8)

* ADN/R Class:	9 Miscellaneous dangerous substances and articles.
* 14.4 Packing group * ADR/RID/ADN, IMDG, IATA	III
* 14.5 Environmental hazards: * Marine pollutant: * Special marking (ADR/RID/ADN): * Special marking (IATA):	Product contains environmentally hazardous substances: troclosen sodium, dihydrate Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)
* 14.6 Special precautions for user * Hazard identification number (Kemler code): * EMS Number: * Stowage Category * Stowage Code	Warning: Miscellaneous dangerous substances and articles. 90 F-A,S-F A SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.
* 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
* Transport/Additional information:	
* ADR/RID/ADN * Limited quantities (LQ) * Excepted quantities (EQ)	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
* Transport category * Tunnel restriction code	3 E
* IMDG * Limited quantities (LQ) * Excepted quantities (EQ)	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
* UN "Model Regulation":	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TROCLOSENE SODIUM, DIHYDRATE), 9, III

SECTION 15: Regulatory information

- * **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- * **Directive 2012/18/EU**
- * **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- * **Seveso category** E1 Hazardous to the Aquatic Environment
- * **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t
- * **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

(Contd. on page 10)

EU

Safety data sheet

according to regulation 1907/2006 (REACH) + 2020/878 (EU)

Printing date 23.02.2024

Version number 1

Revision: 23.02.2024

Trade name: MiQro Tabs 2619-B (Open Circuit)

(Contd. of page 9)

* **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

* **REGULATION (EU) 2019/1148**

* **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

* **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

* **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

* **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

* **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

disinfectants

≥30%

* **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. This Safety Data Sheet is exclusively meant for industrial/professional use.

* **Relevant phrases**

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.

* **Department issuing SDS:** Product safety department.

* **Date of previous version:** 23.02.2024

* **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 Acute Tox. 4: Acute toxicity – Category 4
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

(Contd. on page 11)

-EU-

Safety data sheet

according to regulation 1907/2006 (REACH) + 2020/878 (EU)

Printing date 23.02.2024

Version number 1

Revision: 23.02.2024

Trade name: MiQro Tabs 2619-B (Open Circuit)

(Contd. of page 10)

*** Sources**

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No.1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet.

**** Data compared to the previous version altered.**

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