

SECTION 1: Identification of the substance/mixture and of the company/undertaking*** 1.1 Product identifier**

* **Trade name: MiQro Slice BE-REG-00546 (Open Circuit)**

* **UFI:** 9UY0-G00T-Q00K-5DG8

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

* **Sector of Use** Restricted to professional users.

* **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

*** 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**

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

(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 Slice BE-REG-00546 (Open Circuit)

(Contd. of page 1)

* 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



GHS02

* Signal word Danger

* Hazard statements

H225 Highly flammable liquid and vapour.

* Precautionary statements

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 Keep container tightly closed.
- P240 Ground and bond container and receiving equipment.
- P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

* 2.3 Other hazards

* Results of PBT and vPvB assessment

* PBT: Not applicable.

* vPvB: Not applicable.

* Determination of endocrine-disrupting properties

78-93-3 butanone

List II

SECTION 3: Composition/information on ingredients

* 3.2 Mixtures

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

* Dangerous components:

CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 Reg.nr.: 01-2119457610-43	ALCOHOL DENAT. ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2; H319: C ≥ 50 %	70-100%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25	ISOPROPYL ALCOHOL ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	1-5%
CAS: 78-93-3 EINECS: 201-159-0 Index number: 606-002-00-3 Reg.nr.: 01-2119457290-43	butanone ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	1-5%

(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 Slice BE-REG-00546 (Open Circuit)

(Contd. of page 2)

*** 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.

[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:** Immediately rinse with water.

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

*** After swallowing:** Rinse out mouth and then drink plenty of water. If symptoms persist consult doctor.

*** 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.

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

*** 5.3 Advice for firefighters**

*** Protective equipment:** No special measures required.

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

Wear protective equipment. Keep unprotected persons away.



Keep away from ignition sources.

*** 6.2 Environmental precautions:**

Dilute with plenty of water.

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

*** 6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

(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 Slice BE-REG-00546 (Open Circuit)

(Contd. of page 3)

*** 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**

Prevent formation of aerosols.

Use only in well ventilated areas.

*** Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

*** 7.2 Conditions for safe storage, including any incompatibilities***** Storage:***** Requirements to be met by storerooms and receptacles:** Store in a cool location.*** Information about storage in one common storage facility:** Not required.*** Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

*** Storage class: 3***** 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:****78-93-3 butanone**IOELV Short-term value: 900 mg/m³, 300 ppmLong-term value: 600 mg/m³, 200 ppm*** DNELs****64-17-5 ALCOHOL DENAT.**

Oral	Long-term exposure - systemic effects	87 mg/kg bw/day (Consumer)
Dermal	Long-term exposure - local effects	343 mg/kg bw/day (Worker)
	Long-term exposure - systemic effects	206 mg/kg bw/day (Consumer)
Inhalative	Long-term exposure - systemic effects	114 mg/m ³ (Consumer)
		950 mg/m ³ (Worker)
	Acute/short term exposure - local effects	950 mg/m ³ (Consumer)
		1,900 mg/m ³ (Worker)

*** PNECs****64-17-5 ALCOHOL DENAT.**

Freshwater	0.96 mg/l
Marinewater	0.79 mg/l
Sewage treatment plant	2,251 mg/l
Sediment (freshwater)	552 mg/kg dw

(Contd. on page 5)

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 Slice BE-REG-00546 (Open Circuit)

(Contd. of page 4)

Sediment (marinewater)	552 mg/kg dw
Soil	28 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:**

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

* **Respiratory protection:**



During operations which cause the formation of vapor / mist / aerosol, use a half face mask according NEN140, or a full face mask according EN 136:1998/C1:2000.

* **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: 0,5 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:**

Nitrile rubber: 0.11 mm (EN374)

* **Eye/face protection**



Tightly sealed goggles

(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 Slice BE-REG-00546 (Open Circuit)

(Contd. of page 5)

* **Body protection:**

Solvent resistant protective clothing

SECTION 9: Physical and chemical properties

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

* Physical state	Fluid
* Colour:	Colourless
* Odour:	Alcohol-like
* Odour threshold:	Not determined.
* Melting point/freezing point:	Undetermined.
* Boiling point or initial boiling point and boiling range	78 °C
* Flammability	Highly flammable.
* Lower and upper explosion limit	
* Lower:	3.5 Vol %
* Upper:	15 Vol %
* Flash point (CCMP):	15 °C
* Auto-ignition temperature:	425 °C
* Decomposition temperature:	Not determined.
* pH at 20 °C	6
* Viscosity:	
* Kinematic viscosity	Not determined.
* Dynamic at 20 °C:	10 mPas
* Solubility	
* water:	Fully miscible.
* Partition coefficient n-octanol/water (log value)	Not determined.
* Vapour pressure at 20 °C:	59 hPa
* Density and/or relative density	
* Density at 20 °C:	0.86 g/cm ³
* Relative density	Not determined.
* Vapour density	Not determined.

* **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:**

Liquid

* **Important information on protection of health and environment, and on safety.*** **Ignition temperature:**

Product is not selfigniting.

* **Explosive properties:**

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

(Contd. on page 7)

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 Slice BE-REG-00546 (Open Circuit)

(Contd. of page 6)

* **Change in condition*** **Evaporation rate** Not determined.* **Information with regard to physical hazard classes**

* Explosives	Void
* Flammable gases	Void
* Aerosols	Void
* Oxidising gases	Void
* Gases under pressure	Void
* Flammable liquids	Highly flammable liquid and vapour.
* 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
* 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** No dangerous reactions known.* **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** Based on available data, the classification criteria are not met.* **LD/LC50 values relevant for classification:****64-17-5 ALCOHOL DENAT.**

Oral	LD50	10,470 mg/kg bw (Rat)
Dermal	LD50	>2,000 mg/kg bw (Rat)
Inhalative	LC50/4h	51-124.7 mg/l (Rat)

* **Skin corrosion/irritation** Based on available data, the classification criteria are not met.* **Serious eye damage/irritation** Based on available data, the classification criteria are not met.* **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.

(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 Slice BE-REG-00546 (Open Circuit)

(Contd. of page 7)

- * **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** Based on available data, the classification criteria are not met.
- * **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**

78-93-3 butanone

List II

SECTION 12: Ecological information

* **12.1 Toxicity*** **Aquatic toxicity:****64-17-5 ALCOHOL DENAT.**

EC50/48h	12,340 mg/l (Daphnia Magna)
LC50/96h	13,000 mg/l (Oncorhyncus Mykiss)
EC50/72h	275 mg/l (Chlorella vulgaris)

- * **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.
- * **vPvB:** Not applicable.
- * **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.
- * **12.7 Other adverse effects**
- * **Additional ecological information:**
- * **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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.

(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 Slice BE-REG-00546 (Open Circuit)

(Contd. of page 8)

* **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**

UN1170

* **14.2 UN proper shipping name*** **ADR/RID/ADN**

1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

* **IMDG**

ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

* **IATA**

ETHANOL SOLUTION

* **14.3 Transport hazard class(es)*** **ADR/RID/ADN, IMDG, IATA*** **Class**

3 Flammable liquids.

* **Label**

3

* **ADN/R Class:**

3 Flammable liquids.

* **14.4 Packing group*** **ADR/RID/ADN, IMDG, IATA**

II

* **14.5 Environmental hazards:**

Not applicable.

* **14.6 Special precautions for user**

Warning: Flammable liquids.

* **Hazard identification number (Kemler code):**

33

* **EMS Number:**

F-E,S-E

* **Stowage Category**

A

* **14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

* **Transport/Additional information:*** **ADR/RID/ADN*** **Limited quantities (LQ)**

1L

* **Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml* **Transport category**

2

* **Tunnel restriction code**

D/E

* **IMDG*** **Limited quantities (LQ)**

1L

* **Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

(Contd. on page 10)

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 Slice BE-REG-00546 (Open Circuit)

(Contd. of page 9)

* UN "Model Regulation":

UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II

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** P5c FLAMMABLE LIQUIDS* **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t* **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t* **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3* **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**

78-93-3 butanone

3

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

78-93-3 butanone

3

* **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**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

* **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

(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 Slice BE-REG-00546 (Open Circuit)

(Contd. of page 10)

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
Flam. Liq. 2: Flammable liquids – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

*** 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.**

EU