## EC 5 μS/cm - Standard Conductivity 5 μS / cm

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## Information Sheet

## SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Code: EC 5 µS/cm

Product name Standard Conductivity 5 µS / cm

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

Intended use Standard solution for process verification and control. Applies to codes 51100513,

51300313.

Industrial **Professional** Consumer **Identified Uses** Standard solution for the verification and quality control of redox potential measurement 1.3. Details of the supplier of the safety data sheet Name GIORGIO BORMAC srl Full address via della meccanica, 25 District and Country 41012 Carpi (MO) Italia Tel. +39 059 653274 Fax +39 059 653282 e-mail address of the competent person responsible for the Safety Data Sheet sds@giorgiobormac.com

1.4. Emergency telephone number

Supplier:

For urgent inquiries refer to +44 121 507 4123

## **SECTION 2. Hazards identification**

## 2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements).

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Hazard classification and indication: --

#### 2.2. Label elements

Hazard pictograms:

Signal words: --

Hazard statements: --

Precautionary statements: --

## 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

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## **SECTION 3. Composition/information on ingredients**

#### 3.2. Mixtures

The product does not contain substances classified as being hazardous to human health or the environment pursuant to the provisions Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and supplements) in such quantities as to require the statement.

## **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

Not specifically necessary. Observance of good industrial hygiene is recommended.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

## **SECTION 5. Firefighting measures**

## 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

## 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

## 5.3. Advice for firefighters

#### **GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## **SECTION 6. Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Use breathing equipment if fumes or powders are released into the air. These indications apply for both processing staff and those involved in emergency procedures.

### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

## 6.3. Methods and material for containment and cleaning up

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

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## **SECTION 7. Handling and storage**

## 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep the product in clearly labelled containers. Keep containers away from any incompatible materials, see section 10 for details.

## 7.3. Specific end use(s)

Information not available

## **SECTION 8. Exposure controls/personal protection**

#### 8.1. Control parameters

Information not available

#### 8.2. Exposure controls

Comply with the safety measures usually applied when handling chemical substances.

HAND PROTECTION

None required.

SKIN PROTECTION

None required.

**EYE PROTECTION** 

None required.

RESPIRATORY PROTECTION

None required, unless indicated otherwise in the chemical risk assessment.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

## **SECTION 9. Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Appearance Colour Colou	Properties	Value	Information
Odour  Melting point / freezing point not available Initial boiling point not available Initial boiling point not available Flammability not available Lower explosive limit not available Upper explosive limit not available Flash point not available Auto-ignition temperature not available Decomposition temperature not available H not available Kinematic viscosity not available Solubility soluble in water Temperature: 20 °C Partition coefficient: n-octanol/water not available Vapour pressure not available Density and/or relative density 1,2 Temperature: 20 °C Relative vapour density not available	Appearance	liquid	
Melting point / freezing point not available Initial boiling point not available Initial Initi	Colour	colourless	
Initial boiling point not available Flammability not available Lower explosive limit not available Upper explosive limit not available Flash point not available Auto-ignition temperature not available Decomposition temperature not available pH not available Kinematic viscosity not available Solubility soluble in water Temperature: 20 °C Partition coefficient: n-octanol/water not available Vapour pressure not available Density and/or relative density 1,2 Temperature: 20 °C Relative vapour density not available	Odour	odourless	
Flammability Lower explosive limit Upper explosive limit Flash point Auto-ignition temperature Decomposition temperature pH India available Kinematic viscosity Solubility Farition coefficient: n-octanol/water Vapour pressure Density and/or relative density Relative vapour density  not available Temperature: 20 °C Partition coefficient: n-octanol/water Not available Density and/or relative density 1,2 Temperature: 20 °C Relative vapour density not available	Melting point / freezing point	not available	
Lower explosive limit not available Upper explosive limit not available Flash point not available Auto-ignition temperature not available Decomposition temperature not available pH not available Kinematic viscosity not available Solubility soluble in water Temperature: 20 °C Partition coefficient: n-octanol/water not available Vapour pressure not available Density and/or relative density 1,2 Temperature: 20 °C Relative vapour density not available	Initial boiling point	not available	
Upper explosive limit not available Flash point not available Auto-ignition temperature not available Decomposition temperature not available pH not available Kinematic viscosity not available Solubility soluble in water Temperature: 20 °C Partition coefficient: n-octanol/water not available Vapour pressure not available Density and/or relative density 1,2 Temperature: 20 °C Relative vapour density not available	Flammability	not available	
Flash point not available Auto-ignition temperature not available Decomposition temperature not available pH not available Kinematic viscosity not available Solubility soluble in water Temperature: 20 °C Partition coefficient: n-octanol/water not available Vapour pressure not available Density and/or relative density 1,2 Temperature: 20 °C Relative vapour density not available	Lower explosive limit	not available	
Auto-ignition temperature not available Decomposition temperature not available pH not available Kinematic viscosity not available Solubility soluble in water Temperature: 20 °C Partition coefficient: n-octanol/water not available Vapour pressure not available Density and/or relative density 1,2 Temperature: 20 °C Relative vapour density not available	Upper explosive limit	not available	
Decomposition temperature not available pH not available Kinematic viscosity not available Solubility soluble in water Temperature: 20 °C Partition coefficient: n-octanol/water not available Vapour pressure not available Density and/or relative density 1,2 Temperature: 20 °C Relative vapour density not available	Flash point	not available	
pH not available Kinematic viscosity not available Solubility soluble in water Temperature: 20 °C Partition coefficient: n-octanol/water not available Vapour pressure not available Density and/or relative density 1,2 Temperature: 20 °C Relative vapour density not available	Auto-ignition temperature	not available	
Kinematic viscosity  Solubility  Partition coefficient: n-octanol/water  Vapour pressure  Density and/or relative density  Relative vapour density  Not available  1,2  Not available  Temperature: 20 °C	Decomposition temperature	not available	
Solubility soluble in water Temperature: 20 °C Partition coefficient: n-octanol/water not available Vapour pressure not available Density and/or relative density 1,2 Temperature: 20 °C Relative vapour density not available	рН	not available	
Partition coefficient: n-octanol/water not available Vapour pressure not available Density and/or relative density 1,2 Temperature: 20 °C Relative vapour density not available	Kinematic viscosity	not available	
Vapour pressure not available  Density and/or relative density 1,2 Temperature: 20 °C  Relative vapour density not available	Solubility	soluble in water	Temperature: 20 °C
Density and/or relative density 1,2 Temperature: 20 °C Relative vapour density not available	Partition coefficient: n-octanol/water	not available	
Relative vapour density not available	Vapour pressure	not available	
·	Density and/or relative density	1,2	Temperature: 20 °C
Partials abaracteristics not applicable	Relative vapour density	not available	
Particle characteristics not applicable	Particle characteristics	not applicable	

## 9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

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## SECTION 9. Physical and chemical properties ..../>>

9.2.2. Other safety characteristics

Information not available

## **SECTION 10. Stability and reactivity**

## 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

#### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

#### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

#### 10.5. Incompatible materials

Information not available

#### 10.6. Hazardous decomposition products

Information not available

## **SECTION 11. Toxicological information**

According to currently available data, this product has not yet produced health damages. Anyway, it must be handled according to good industrial practices.

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

## **ACUTE TOXICITY**

ATE (Inhalation) of the mixture:

ATE (Oral) of the mixture:

Not classified (no significant component)

Not classified (no significant component)

ATE (Dermal) of the mixture:

Not classified (no significant component)

**GLYCERIN** 

LD50 (Dermal): 18700 mg/kg rabbit LD50 (Oral): 27200 mg/kg ratto LC50 (Inhalation mists/powders): 1100 mg/l/7h ratto

### SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

## SERIOUS EYE DAMAGE / IRRITATION

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## SECTION 11. Toxicological information .../>>

Does not meet the classification criteria for this hazard class

#### **RESPIRATORY OR SKIN SENSITISATION**

Does not meet the classification criteria for this hazard class

#### **GERM CELL MUTAGENICITY**

Does not meet the classification criteria for this hazard class

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

## REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

#### **STOT - SINGLE EXPOSURE**

Does not meet the classification criteria for this hazard class

#### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

## **ASPIRATION HAZARD**

Does not meet the classification criteria for this hazard class

#### 11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

## **SECTION 12. Ecological information**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

### 12.1. Toxicity

Information not available

## 12.2. Persistence and degradability

GLYCERIN

Rapidly degradable

## 12.3. Bioaccumulative potential

Information not available

## 12.4. Mobility in soil

Information not available

#### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

## 12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

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## **GIORGIO BORMAC srl**

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## SECTION 12. Ecological information .../>>

12.7. Other adverse effects

Information not available

## **SECTION 13. Disposal considerations**

#### 13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## **SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

#### 14.1. UN number or ID number

not applicable

### 14.2. UN proper shipping name

not applicable

#### 14.3. Transport hazard class(es)

not applicable

#### 14.4. Packing group

not applicable

## 14.5. Environmental hazards

not applicable

### 14.6. Special precautions for user

not applicable

### 14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

## **SECTION 15. Regulatory information**

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

Seveso Category - Directive 2012/18/EU:

None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

None

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors not applicable

## Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  than 0,1%.

## Substances subject to authorisation (Annex XIV REACH)

None

## Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

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## SECTION 15. Regulatory information .../>>

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

## 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

## **SECTION 16. Other information**

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### **GENERAL BIBLIOGRAPHY**

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)

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## SECTION 16. Other information .../>>

- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

#### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

01/03/08/09/11/12.