milwaukee	Milwaukee Electronics Kft.			Revision nr.6 Dated 24/04/2023 Printed on 24/04/2023 Page nr. 1./10	
	MA9071 - Ele	ctrolyte Solution for D.O.	probes	Prate of 14/04/06/06 Page n. 1/ 10 Replaced revision:5 (Dated 09/01/2023)	
	According to Anne	Safety Data Sh x II to REACH - Regulation 2020/878		0 UK REACH	
SECTION 1. Identifica	ation of the substa	ance/mixture and of the co	mpany/unde	rtaking	
1.1. Product identifier				5	
CodeMA9071Product nameElectrolyte Solution for D.O. probes					
I.2. Relevant identified uses o	of the substance or mixt	ure and uses advised against			
Intended use		Electrolyte Fill Solution for Polarog	graphic Dissolved	I Oxygen Probes.	
1.3. Details of the supplier of the	he safety data sheet				
Name Full address District and Country e-mail address of the comp	etent person	Milwaukee Electronics Kft. Alsókikötő sor 11. H6726 Szeged Hungary Tel. +36-62-428-050 Fax +36-62-428-051			
responsible for the Safety D		info@milwaukeeinst.com			
1.4. Emergency telephone nur	nber				
		0154400 Czach Popublic tol · +4		+420 224 015 402 Dopmark tol :	
		8212 12 12 - Estonia tel.: 112 - Fii (exchange) - France tel. ORFILA 8092166 - Lithuania tel.: +370 5 2 0000,Medicines & Poisons Info O	nland tel.: (09) 47 (INRS) : + 33 (0) 36 20 52, +370 6 ffice tel.: 2545 65 nia tel. 021.318.3	I 45 42 59 59 - Ireland tel.: 01 87 53378 - Malta tel: 2545 04 - Norway tel.:22 59 13 00 - 36.06 (8:00 – 15:00) – Slovakia tel.:	
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SECTION 2. Hazards id	entification / >>		
On the basis of available	e data, the product does not contai	in any PBT or vPvB in percentage ≥ than 0,19	%.
The product does not co	ntain substances with endocrine d	lisrupting properties in concentration $\geq 0.1\%$.	
SECTION 3. Composition/i	nformation on ingredients		
3.2. Mixtures			
Contains:			
Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)	
SILVER CHLORIDE INDEX	0,0025 ≤ x < 0,025	Met. Corr. 1 H290, Aquatic Acute 1 H400 M=100	M=1000, Aquatic Chronic 1 H410
EC 232-033 CAS 7783-90	•		

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again. INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

Block the leakage if there is no hazard. Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent



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SECTION 6. Accidental release measures/>>

any contamination of skin, eyes and personal clothing. 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

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. 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.

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. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. 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

Regulatory References:

AUS	Österreich	Gesamte Rechtsvorschrift für Grenzwerteverordnung 2021, Fassung vom 17.06.2021
BEL	Belgique	Liste de valeurs limites d'exposition aux agents chimiques, livre VI du code du bien-être au travail
CHE	Suisse / Schweiz	Valeurs limites d'exposition aux postes de travail: VME/VLE (SUVA). Grenzwerte am Arbeitsplatz: MAK (SUVA)
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2021

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SECTION 8. Exposure controls/personal protection ... / >>

SILVER CHLORIDE

Threshold Limit Va Type	Country	TWA/8h STEL/15min		Remarks / O	Remarks / Observations			
Type	Country	mg/m3	ppm	mg/m3 ppm		Remarks / O	0301 1410113	
MAK	AUS	0,01	ppm	ing/ino	ppin	INHAL		
VLEP	BEL	0,01					Ag compo	aund
MAK	CHE						Ag compo	
AGW	DEU	0,01					U 1	
TLV		0,01		0.02			Ag compo	bund
	DNK	0,01		0,02			A =	
VLA	ESP	0,01					Ag compo	
VLEP	FRA	0,01					Ag compound	
AK	HUN	0,01					Ag compo	
NDS/NDSCh	POL	0,05					Ag compo	
TLV	ROU	0,01					Ag compo	
NGV/KGV	SWE	0,01					Ag compo	
WEL	GBR	0,01					Ag compo	bund
OEL	EU	0,01					Ag compo	bund
TLV-ACGIH		0,01	0,01			Ag compo	bund	
Predicted no-effec	t concentratio	on - PNEC						
Normal value in	Normal value in fresh water		0,04	μg/L				
Normal value in marine water			0,86	μg/L				
Normal value for fresh water sediment			438	mg/kg				
Normal value for	Normal value for marine water sediment				438	mg/kg		
Normal value o	f STP microc	organisms					0,025	mg/l
Normal value for the terrestrial compartment		0,794	mg/kg/d					

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction. VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low

hazard ; MED = medium hazard ; HIGH = high hazard.

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 If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a

type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. ENVIRONMENTAL EXPOSURE CONTROLS

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

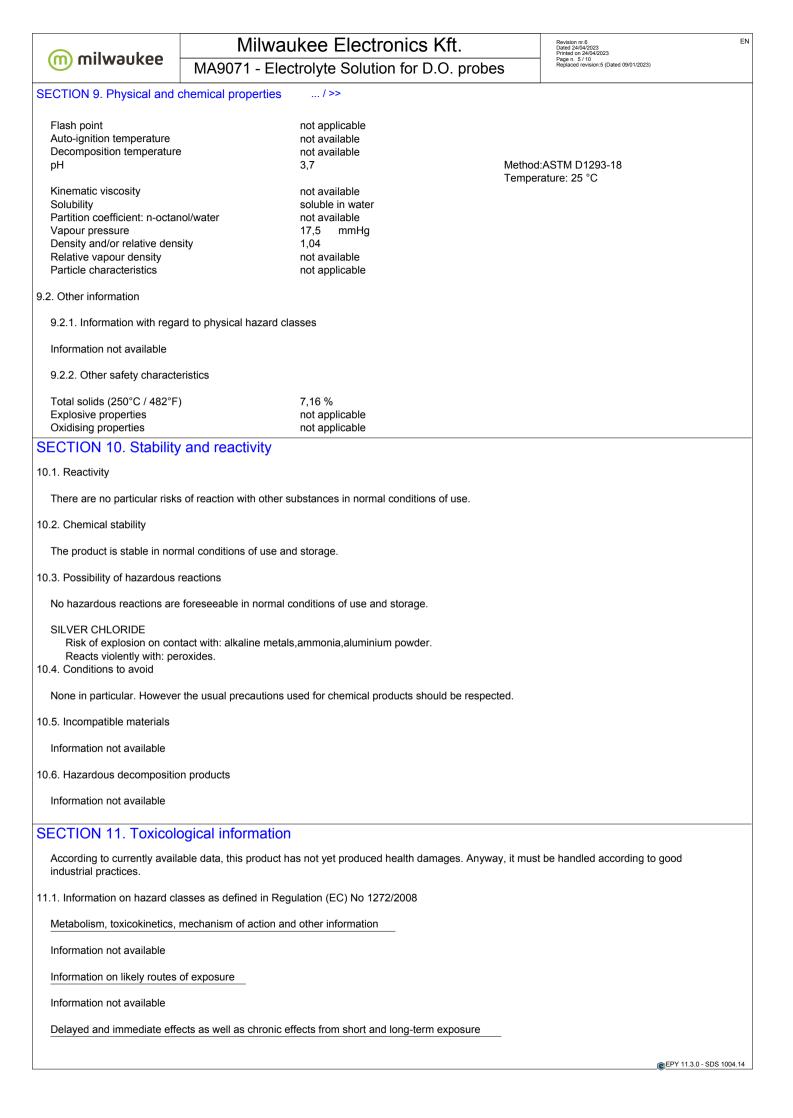
Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

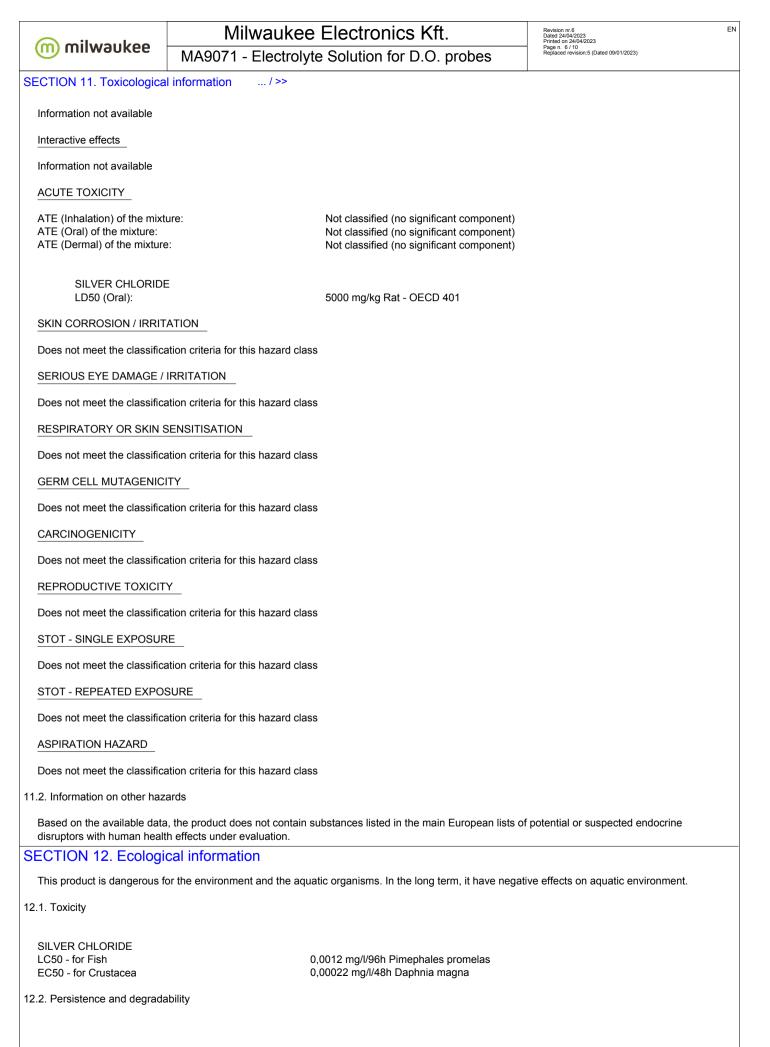
SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value
Appearance	liquid
Colour	colourless
Odour	odourless
Melting point / freezing point	not available
Initial boiling point	not available
Flammability	not available
Lower explosive limit	not available
Upper explosive limit	not available

Information





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SECTION 12. Ecological information / >>					
SILVER CHLORIDE Solubility in water					
12.3. Bioaccumulative potential					
Information not available					
12.4. Mobility in soil					
Information not available					
12.5. Results of PBT and vPvI	B assessment				
On the basis of available da	ata, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.				
12.6. Endocrine disrupting pro	perties				
Based on the available data disruptors with environment	a, the product does not contain substances listed in the main European lists of tal effects under evaluation.	potential or suspected endocrine			
12.7. Other adverse effects					
Information not available					
SECTION 13. Dispose	al considerations				
13.1. Waste treatment method	is				
Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations. 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. Transpo	ort 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					

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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 Product Point Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors Regulated explosives precursor The acquisition, introduction, possession or use of that regulated explosives precursor by members of the general public is subject to reporting obligations as set out in Article 9. All suspicious transactions and significant disappearances and thefts must be reported to the relevant national contact point. 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: None Substances subject to the Stockholm Convention: None Healthcare controls Information not available German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017) WGK 1: Low hazard to waters 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

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Met. Corr. 1 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 3 H290	Substance or mixture corrosive to metals, category 1 Hazardous to the aquatic environment, acute toxicity, category 1 Hazardous to the aquatic environment, chronic toxicity, category 1 Hazardous to the aquatic environment, chronic toxicity, category 3 May be corrosive to metals.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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

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SECTION 16. Other information ... / >>

- 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)
- 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.

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MA9071 - Electrolyte Solution for D.O. probes

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SECTION 16. Other information ... / >>

Changes to previous review: The following sections were modified: 09.