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

1.1 Product identifier: Elektrolyt C

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

Relevant uses: Cleaner. For professional user only.

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:

Bymat GmbH Neusser Str. 106 D - 41363 Jüchen - Germany -Tel.: +49 (0) 21 65 / 87 28 0 info@bymat.de

1.4 Emergency telephone number: +49 (0) 21 65 / 87 28 0

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

CLP Regulation (EC) nº 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) nº 1272/2008.

Eye Dam. 1: Serious eye damage, Category 1, H318 Skin Corr. 1B: Skin corrosion, Category 1B, H314

2.2 Label elements:

CLP Regulation (EC) nº 1272/2008:

Danger



Hazard statements:

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage

Precautionary statements:

P280: Wear protective gloves/protective clothing/eye protection/face protection

P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310: Immediately call a POISON CENTER or doctor/physician

Substances that contribute to the classification

Phosphoric Acid

2.3 Other hazards:

Non-applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Mixture composed of chemical products

Components:

In accordance with Annex II of Regulation (EC) nº1907/2006 (point 3), the product contains:

	Identification	Chemical name/Classification		
CAS:	7664-38-2	Phosphoric Acid	ATP CLP00	
EC:	231-633-2	Regulation 1272/2008	Skin Corr. 1B: H314 - Danger	25 - <50 %
Index:	015-011-00-6			
REACH	01-2119485924-24-XXXX			

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

To obtain more information on the risk of the substances consult sections 8, 11, 12, 15 and 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

Request medical assistance immediately, showing the SDS of this product.

By inhalation:

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and its inhalation, to the respiratory system. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administrate anything orally unless supervised by a doctor. Keep the person affected at rest.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Product is non-flammable under normal conditions of storage, manipulation and use. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use tap water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

6.2 Environmental precautions:

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SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Store in a cool, dry, well-ventilated location

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the work environment

Identification	E	Environmental limits		
Phosphoric Acid	IOELV (8h)	1 mg/m ³		
CAS: 7664-38-2	IOELV (STEL)	2 mg/m ³		
EC: 231-633-2	Year	2015		

8.2 Exposure controls:

A.- General security and hygiene measures in the work place

As a preventative measure it is recommended to use basic Personal Protection Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the professional exposure limits are exceeded.

C.- Specific protection for the hands

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	Pictogram	PPE	Labelling	CEN Standard	Remarks
	Mandatory hand protection	Protective gloves against minor risks	CATI		Material: nitrile rubber, 0,11mm thickness, breakthrough time> 480 min. Replace gloves in of any sign of damage. We recommend using (gloves in line with standards EN 420 and EN (
D	Ocular and facial p	protection			·
	Pictogram	PPE	Labelling	CEN Standard	Remarks
	Mandatory face protection	Panoramic glasses against liquid splash		EN 166:2001 EN ISO 4007:2012	Clean daily and disinfect periodically according manufacturer's instructions. Use if there is a ri- splashing.
E	Bodily protection				•
	Pictogram	PPE	Labelling	CEN Standard	Remarks
			CATI		
		Anti-slip work shoes		EN ISO 20347:2012	
F	Additional emerger	ncy measures			
	It is not necessary	to take additional emerge	ncy measures.		
	Emergency mea	sure Sta	andards	Emergency mea	sure Standards
	Emergency show	ISO 38	61 Z358-1 864-1:2002	Eyewash statio	DIN 12 899 ISO 3864-1:2002
En	vironmental expos	sure controls:		1	I
	•		the protection (of the environment it is re	ecommended to avoid environmental spill
of k	oth the product and	d its container. For additio	nal information	see subsection 7.1 D	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties:		
	Appearance:		
	Physical state at 20 ºC:	Liquid	
	Appearance:	Characteristic	
	Color:	Colourless	
	Odor:	Characteristic	
	Volatility:		
	Boiling point at atmospheric pressure:	100 °C	
	Vapour pressure at 20 °C:	Non-applicable *	
	Vapour pressure at 50 °C:	Non-applicable *	
	Evaporation rate at 20 °C:	Non-applicable *	
	Product description:		
	Density at 20 °C:	Non-applicable *	
	Relative density at 20 °C:	1.29 - 1.295	
	*Not relevant due to the nature of the product, not providing	information property of its hazards.	

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SEC	SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)				
	Dynamic viscosity at 20 °C:	Non-applicable *			
	Kinematic viscosity at 20 °C:	Non-applicable *			
	Kinematic viscosity at 40 °C:	Non-applicable *			
	Concentration:	Non-applicable *			
	pH:	Non-applicable *			
	Vapour density at 20 ºC:	Non-applicable *			
	Partition coefficient n-octanol/water 20 °C:	Non-applicable *			
	Solubility in water at 20 °C:	Non-applicable *			
	Solubility properties:	Non-applicable *			
	Decomposition temperature:	Non-applicable *			
	Melting point/freezing point:	Non-applicable *			
	Explosive properties:	Non-applicable *			
	Oxidising properties:	Non-applicable *			
	Flammability:				
	Flash Point:	Non Flammable (>60 °C)			
	Autoignition temperature:	Non-applicable *			
	Lower flammability limit:	Non-applicable *			
	Upper flammability limit:	Non-applicable *			
9.2	Other information:				
	Surface tension at 20 °C:	Non-applicable *			
	Refraction index:	Non-applicable *			
	*Not relevant due to the nature of the product, not providing i	information property of its hazards.			

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

Acids	Water	Combustive materials	Combustible materials	Others
Not applicable	Not applicable	Precaution	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

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CTION 11: TOXICOLOGICAL INFORMATION (continued)	
In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure: A Ingestion (acute effect):	
 Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for consumption. For more information see section 3. Corrosivity/Irritability: Corrosive product, its consumption causes burns destroying the full thickness of fabrics. For more information on the secondary effects of contact with the skin see section 2. 	
B- Inhalation (acute effect):	
 Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3. Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract 	
C- Contact with the skin and the eyes (acute effect):	
 Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2. Contact with the eyes: Produces serious eye damage after contact. D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction): 	
 Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3. Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3. Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3. Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3. 	
E- Sensitizing effects:	
 Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3. Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3. 	
F- Specific target organ toxicity (STOT)-time exposure:	
Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.	
G- Specific target organ toxicity (STOT)-repeated exposure:	
 Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3. Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information substances classified as dangerous for this effect. For more information see section 3. 	;
H- Aspiration hazard:	
Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.	
Other information:	

Non-applicable

Specific toxicology information on the substances:

	Identification	Acu	ute toxicity	Genus
Phosphoric Acid		LD50 oral	3500 mg/kg	Rat
CAS: 7664-38-2		LD50 dermal	2470 mg/kg	Rabbit
EC: 231-633-2		LC50 inhalation	Non-applicable	

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Toxicity:

Identification		Acute toxicity	Species	Genus
Phosphoric Acid	LC50	Non-applicable		
CAS: 7664-38-2	EC50	4.6 mg/L (12 h)	Daphnia magna	Crustacean
EC: 231-633-2	EC50	Non-applicable		
			•	

12.2 Persistence and degradability:

Not available

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SECTION 12: ECOLOGICAL INFORMATION (continued)

12.3 Bioaccumulative potential: Not available 12.4 Mobility in soil: Not available Results of PBT and vPvB assessment: 12.5 Non-applicable Other adverse effects: 12.6 Not described SECTION 13: DISPOSAL CONSIDERATIONS 13.1 Waste treatment methods: Code Waste class (Regulation (EU) No Description 1357/2014) It is not possible to assign a specific code, as it depends on the intended use by the user. Type of waste (Regulation (EU) No 1357/2014): HP8 Corrosive Waste management (disposal and evaluation): Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2. Regulations related to waste management: In accordance with Annex II of Regulation (EC) nº1907/2006 (REACH) the community or state provisions related to waste management are stated Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014 SECTION 14: TRANSPORT INFORMATION Transport of dangerous goods by land: With regard to ADR 2015 and RID 2015: UN1805 14.1 UN number: 14.2 UN proper shipping name: PHOSPHORIC ACID, SOLUTION 14.3 Transport hazard class(es): 8 Labels: 8 14.4 Packing group: ш 14.5 Dangerous for the environment: No 14.6 Special precautions for user Special regulations: Non-applicable Tunnel restriction code: Е Physico-Chemical properties: see section 9 Limited quantities: 51 Transport in bulk according to 14.7 Non-applicable Annex II of Marpol and the IBC Code: Transport of dangerous goods by sea: With regard to IMDG 37-14:

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SECTION 14: TRANS	SPOR ⁻	T INFORMATION (continued)		
	14.1	UN number:	UN1805	
Â.	14.2	UN proper shipping name:	PHOSPHORIC ACID, SOLUTION	
	14.3	Transport hazard class(es): Labels:	8	
	14.4		8 	
		Packing group:		
*	14.5	Dangerous for the environment:	No	
· · · · ·	14.6	Special precautions for user		
		Special regulations:	223	
		EmS Codes:	F-A, S-B	
		Physico-Chemical properties:	see section 9	
		Limited quantities:	5 L	
	14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable	
Transport of dar	Transport of dangerous goods by air:			
With regard to IA	TA/ICA	O 2015:		
Â	14.1	UN number:	UN1805	
	14.2	UN proper shipping name:	PHOSPHORIC ACID, SOLUTION	
	14.3	Transport hazard class(es):	8	
		Labels:	8	
8	14.4	Packing group:	III	
	14.5	Dangerous for the environment:	No	
	14.6	Special precautions for user Physico-Chemical properties:	see section 9	
	14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable	

SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):

Non-applicable

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

- Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products
- Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents
- Commission Regulation (EC) No 907/2006 of 20 June 2006 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes III and VII
- Commission Regulation (EC) No 551/2009 of 25 June 2009 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes V and VI thereto (surfactant derogation)

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

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SECTION 16: OTHER INFORMATION Legislation related to safety data sheets: This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) Nº 1907/2006 (Regulation (EU) Nº 453/2010, Regulation (EC) Nº 2015/830) Modifications related to the previous security card which concerns the ways of managing risks. : General update adapting to existing legislation. Texts of the legislative phrases mentioned in section 2: H314: Causes severe skin burns and eye damage H318: Causes serious eye damage Texts of the legislative phrases mentioned in section 3: The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3 CLP Regulation (EC) nº 1272/2008: Skin Corr. 1B: H314 - Causes severe skin burns and eye damage Classification procedure: Skin Corr. 1B: Calculation method Eye Dam. 1: Calculation method Advice related to training: Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product. Principal bibliographical sources: http://esis.irc.ec.europa.eu http://echa.europa.eu http://eur-lex.europa.eu Abbreviations and acronyms: ADR: European agreement concerning the international carriage of dangerous goods by road IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation COD: Chemical Oxygen Demand BOD5: 5-day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50 CL50: Lethal Concentration 50 EC50: Effective concentration 50 Log-POW: Octanol-water partition coefficient Koc: Partition coefficient of organic carbon

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.