

# SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH), amended with 2015/830 / EC



## Elektrolyte GREINOX CLEAN

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

#### 1.1 Product identifier

Information on the product / trade name:

**Electrolyte GREINOX CLEAN**

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

for Surface treatment, only for industrial use

REACH Registration Number:

A registration number for this substance is not available as the substance or its use is exempted from registration under Article 2 of REACH Regulation (EC) No 1907/2006, which does not require registration or is planned for a later date.

#### 1.3 Details of the supplier of the safety data sheet

Information on the manufacturer / supplier:

**Kai Greising e. K. Clean Marker**

**Industriestraße 29/2**

**73340 Amstetten**

**Germany**

**phone: 0049-7331-3058-0**

**fax: 0049-7331-981722**

#### 1.4 Emergency telephone number

Name	Street	Postal code/ city	Telephone	Website
National Poisons Information Service City Hospital	Dudley Rd	B187QH Birmingham	844 892 0111	

Emergency information service

**+49-761-19240**

### SECTION 2: Hazards identification:

#### 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

**Classification acc. to GHS**

Section	Hazard class	Hazard class and category	Hazard statement
2.16	substance or mixture corrosive to metals	(Met. Corr. 1)	H290
3.2	skin corrosion/irritation	(Skin Corr. 1B)	H314
3.3	serious eye damage/eye irritation	(Eye Dam. 1)	H318

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word

**Danger**

# SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH), amended with 2015/830 / EC



## Elektrolyte GREINOX CLEAN

### Hazard statements

- H290 May be corrosive to metals  
H314 Causes severe skin burns and eye damage

### Precautionary statements

#### Precautionary statements - prevention

- P260 Do not breathe mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### Precautionary statements - response

- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.

#### Precautionary statements - response

- P390 Absorb spillage to prevent material damage.

#### Precautionary statements - storage

- P406 Store in corrosive resistant container with a resistant inner liner

### 2.3 Other hazards

During the for Surface treatment electrolyte vapors may form

## SECTION 3: Composition/information on ingredients

### 3.2 Mixture

#### Description of the mixture

Composition/information on ingredients.

Name of substance	Identifier	wt%	Classification acc. to 1272/2008/EC	Pictograms	Specific Conc. Limits
Orthophosphoric acid	CAS No 7664-38-2 EC No 231-633-2 Index No 015-011-00-6 REACH Reg. No 01- 2119485924- 24-xxxx	25 - 75	Met. Corr. 1 / H290 Skin Corr. 1B / H314 Eye Dam. 1 / H318		Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Dam. 1; H318: C ≥ 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 %

#### Remarks

For full text of Hazard- and EU Hazard-statements: see SECTION 16.  
PBT/vPvB: Not applicable for inorganic substances

## SECTION 4: First aid measures

### 4.1 Description of first aid measures



#### General notes

Take off immediately all contaminated clothing. Self-protection of the first aider.

# SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH), amended with 2015/830 / EC



## Elektrolyte GREINOX CLEAN

### Following inhalation

Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

### Following skin contact

After contact with skin, wash immediately with plenty of water. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

### Following eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye.

### Following ingestion

Rinse mouth immediately and drink plenty of water. If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects). Call a physician immediately.

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

Following inhalation: Cough, pain, choking, and breathing difficulties,  
Following skin contact: Causes severe burns, Causes poorly healing wounds,  
After eye contact: Risk of serious damage to eyes, Risk of blindness,  
Following ingestion: Corrosion, Vomiting, Gastric perforation

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

none

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media



#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings water spray, foam, dry extinguishing powder, carbon dioxide (CO<sub>2</sub>)

#### Unsuitable extinguishing media

water jet

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

Not combustible.

#### Hazardous combustion products

In case of fire may be liberated: phosphorus oxides (P<sub>x</sub>O<sub>y</sub>); May produce toxic fumes of carbon monoxide if burning.

### 5.3 Advice for firefighters

Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus. Wear full chemical protective clothing

#### further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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## SECTION 6: Accidental release measures

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

#### Advice for non-emergency personnel



# SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH), amended with 2015/830 / EC



## Elektrolyte GREINOX CLEAN

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray.

Advice for emergency responders: Protective equipment see section 8.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. The product is an acid. Before discharge into sewage plants the product normally needs to be neutralised.

### 6.3 Methods and materials for containment and cleaning up

Covering of drains.

#### Advices on how to clean up a spill

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

#### Other information relating to spills and releases

Place in appropriate containers for disposal.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8.

Incompatible materials: see section 10. Disposal considerations: see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

When diluting/dissolving, always have the water ready first, then slowly stir in the product. Handle and open container with care.

#### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feeding stuffs.

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

Storage conditions

Keep only in the original container. Tightly closed.

#### • Corrosive conditions

Store in corrosive resistant container with a resistant inner liner.

#### Incompatible substances or mixtures

Observe hints for combined storage.

#### Consideration of other advice

##### • Ventilation requirements

Use local and general ventilation.

##### • Specific designs for storage rooms or vessels

Recommended storage temperature: 15 – 25 °C.

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### National limit values

# SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH), amended with 2015/830 / EC



## Elektrolyte GREINOX CLEAN

### Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Notation	Identifier	TW A [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/ m <sup>3</sup> ]	Ceiling-C [ppm]	Ceiling-C [mg/ m <sup>3</sup> ]	Source
EU	orthophosphoric acid	7664-38-2		IOELV		1		2			2000/39/ EC
GB	orthophosphoric acid	7664-38-2		WEL		1		2			EH40/ 2005

#### Notation

**Ceiling-C** Ceiling value is a limit value above which exposure should not occur

**STEL** Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified

**TWA** Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average

#### Relevant DNELs/DMELs/PNECs and other threshold levels

- relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
orthophosphoric acid	7664-38-2	DNEL	2 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects
orthophosphoric acid	7664-38-2	DNEL	1 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects

- relevant PNECs of components of the mixture

## 8.2 Exposure controls

### Individual protection measures (personal protective equipment)



#### Eye/face protection

Use safety goggle with side protection.

#### Skin protection

##### • hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

##### • type of material

NBR (Nitrile rubber)

##### • material thickness

>0,3 mm

##### • breakthrough times of the glove material

>480 minutes (permeation: level 6)

##### • other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

# SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH), amended with 2015/830 / EC



## Elektrolyte GREINOX CLEAN

### Respiratory protection

Respiratory protection necessary at: Aerosol or mist formation. Type: B-P2 (combined filters for acidic gases and particles, colour code: Grey/White).

### Environmental exposure controls

Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Form	liquid
Colour	colorless
Odour	odourless
Odour Threshold	Not applicable

#### Other physical and chemical parameters

pH	<1
Melting point	-10°C at 1.013 hPa
Boiling point	>100°C
Flash point	not determined
Evaporation rate	No information available.
Flammability (solid, gas)	not relevant (fluid)

#### Explosive limits

Lower explosion limit (LEL)	No information available.
Upper explosion limit (UEL)	No information available.
Vapour pressure	2 hPa at 20 °C
Relative vapour density	No information available.
Density	~ 1,15 g/cm <sup>3</sup>
Relative density	No information available.
Water solubility	miscible in any proportion
Partition coefficient: n-octanol/water	No information available.
Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none

### 9.2 Other data

Corrosion	May be corrosive to metals.
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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Substance or mixture corrosive to metals

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

Violent reaction with: Alkaline

Dangerous/dangerous reactions with: Metals (due to the release of hydrogen in an acid/alkaline medium)

=> Danger of explosion



# SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH), amended with 2015/830 / EC



## Elektrolyte GREINOX CLEAN

### 10.4 Conditions to avoid

Keep away from heat

### 10.5 Incompatible materials

Aluminium, iron/iron-containing compounds, Mild steel, Alkaline

### 10.6 Hazardous decomposition products

in the event of fire: See section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Classification according to GHS (1272/2008/EC, CLP)

#### Acute toxicity

Shall not be classified as acutely toxic.

#### Skin corrosion/irritation

Causes severe burns.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

#### Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant

#### • Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

#### • Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

#### Symptoms related to the physical, chemical and toxicological characteristics

##### • If swallowed

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects)

Spasms

##### • If in eyes

causes burns, Causes serious eye damage, risk of blindness

##### • If inhaled

corrosive to the respiratory tract

##### • If on skin

causes severe burns, causes poorly healing wounds

### 11.2 Further information

None

## SECTION 12: Ecological information

### 12.1 Toxicity

acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.

#### Aquatic toxicity (acute)

#### Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
orthophosphoric acid	7664-38-2	EC50	>100 mg/l	aquatic invertebrates	48 h
orthophosphoric acid	7664-38-2	ErC50	>100 mg/l	algae	72 h

# SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH), amended with 2015/830 / EC



## Elektrolyte GREINOX CLEAN

### 12.2 Process of degradability

The methods for determining the biological degradability are not applicable to inorganic substances

### 12.3 Bioaccumulative potential

Data are not available.

### 12.4 Mobility in soil

Data are not available

### 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 Other adverse effects

Data are not available.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### **Sewage disposal-relevant information**

Do not empty into drains.

#### **Waste treatment of containers/packaging**

It is a dangerous waste; only packaging which are approved (e.g. acc. to ADR) may be used.

#### **Sewage disposal-relevant information**

Do not empty into drains.

### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions

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## SECTION 14: Transport information

14.1 UN number

1805

14.2 UN proper shipping name

PHOSPHORIC ACID, SOLUTION

Hazardous ingredients

PHOSPHORIC ACID, SOLUTION

14.3 Transport hazard class(es)



Class

8 (corrosive substances)

14.4 Packing group

III (substance presenting low danger)

14.5 Environmental hazards

none (non-environmentally hazardous acc. to the dangerous

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.



# SAFETY DATA SHEET



According to Regulation (EC) No. 1907/2006 (REACH), amended with 2015/830 / EC

## Elektrolyte GREINOX CLEAN

### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

### 14.8 Information for each of the UN Model Regulations

#### • Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

UN number	1805
Proper shipping name	PHOSPHORIC ACID, SOLUTION
Particulars in the transport document	UN1805, PHOSPHORIC ACID, SOLUTION, 8, III, (E)
Class	8
Classification code	C1
Packing group	III
Danger label(s)	8



Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
Transport category (TC)	3
Tunnel restriction code (TRC)	E
Hazard identification No	80
<b>Emergency Action Code</b>	<b>2R</b>

#### • Transport of dangerous goods by air transport ICAO-TI und IATA-DGR:

UN number	1805
Proper shipping name	UN1805, Phosphoric acid, solution, 8, III
Particulars in the transport document	UN1805, Phosphoric acid, solution, 8, III
Class	8
Packing group	III
Danger label(s)	8



Special provisions (SP)	A3
Excepted quantities (EQ)	E1
Limited quantities (LQ)	1 L

#### • International Maritime Dangerous Goods Code (IMDG)

UN number	1805
Proper shipping name	PHOSPHORIC ACID, SOLUTION
Particulars in the shipper's declaration	UN1805, PHOSPHORIC ACID, SOLUTION, 8, III
Class	8
Marine pollutant	-
Packing group	III
Danger label(s)	8



Special provisions (SP)	223
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
EmS	F-A, S-B
Stowage category	A
Segregation group	1 - Acids

# SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH), amended with 2015/830 / EC



## Elektrolyte GREINOX CLEAN

### SECTION 15: Regulatory information

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

##### Relevant provisions of the European Union (EU)

- **Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC)**  
None of the ingredients are listed.
- **Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)**  
None of the ingredients are listed.
- **Regulation 850/2004/EC on persistent organic pollutants (POP)**  
None of the ingredients are listed.
- **Restrictions according to REACH, Annex XVII**

Name of substance	Type of registration	Conditions of restriction	No
ortho-Phosphoric acid	1907/2006/EC annex XVII	R3	3

##### Legend

- R3
1. Shall not be used in:
    - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
    - tricks and jokes,
    - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
  2. Articles not complying with paragraph 1 shall not be placed on the market.
  3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
    - can be used as fuel in decorative oil lamps for supply to the general public, and,
    - present an aspiration hazard and are labelled with R65 or H304,
  4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
  5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
    - (a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010, 'Just a sip of lamp oil - or even sucking the wick of lamps - may lead to life-threatening lung damage';
    - (b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter may lead to life threatening lung damage';
    - (c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.
  6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.
  7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.

- **List of substances subject to authorization (REACH, Annex XIV)**

None of the ingredients are listed.

# SAFETY DATA SHEET



According to Regulation (EC) No. 1907/2006 (REACH), amended with 2015/830 / EC

## Elektrolyte GREINOX CLEAN

• Restrictions according to REACH, Title VIII

None.

• Seveso Directive

**2012/18/EU (Seveso III)**

No	Dangerous substance / hazard categories	Qualifying quantity (tonnes) for the application of lower and upper requirements	Notes
	not assigned		

• Limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products (2004/42/EC, Deco-Paint Directive)

VOC content 0 %

• Directive on industrial emissions (VOCs, 2010/75/EU)

VOC content 0 %

**Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II**

None of the ingredients are listed.

**Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)**

None of the ingredients are listed.

**Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)**

None of the ingredients are listed.

**Regulation 98/2013/EU on the marketing and use of explosives precursors**

none of the ingredients are listed

**Regulation 111/2005/EC laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

none of the ingredients are listed

**National inventories**

Country	National inventories	Statu
AU	AIC	all ingredients are listed
CA	DS	all ingredients are listed
CN	IECS	all ingredients are listed
EU	EC	all ingredients are listed
EU	REACH	all ingredients are listed
JP	CSCL-ENCS	all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed

# SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH), amended with 2015/830 / EC



## Elektrolyte GREINOX CLEAN

### Legend

AICS	Australian Inventory of Chemical Substances
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
KECI	Korea Existing Chemicals Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2000/39/EC	Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
DGR	DGR Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50% changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)

# SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH), amended with 2015/830 / EC



## Elektrolyte GREINOX CLEAN

Abbr.	Descriptions of used abbreviations
<b>EH40/2005</b>	EH40/2005 Workplace exposure limits, Table 1: List of approved workplace exposure limits ( <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a> )
<b>EINECS</b>	European Inventory of Existing Commercial Chemical Substances
<b>ELINCS</b>	European List of Notified Chemical Substances
<b>EmS</b>	Emergency Schedule
<b>ErC50</b>	EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
<b>Eye Dam.</b>	seriously damaging to the eye
<b>Eye Irrit.</b>	irritant to the eye
<b>GHS</b>	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
<b>IATA</b>	International Air Transport Association
<b>IATA/DGR</b>	Dangerous Goods Regulations (DGR) for the air transport (IATA)
<b>ICAO</b>	International Civil Aviation Organization
<b>IMDG</b>	International Maritime Dangerous Goods Code
<b>index No</b>	the Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
<b>IOELV</b>	indicative occupational exposure limit value
<b>MARPOL</b>	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
<b>Met. Corr.</b>	corrosive to metals
<b>NLP</b>	No-Longer Polymer
<b>Ox. Liq.</b>	oxidising liquid
<b>ppm</b>	parts per million
<b>PBT</b>	Persistent, Bioaccumulative and Toxic
<b>PNEC</b>	Predicted No-Effect Concentration
<b>REACH</b>	Registration, Evaluation, Authorisation and Restriction of Chemicals
<b>RID</b>	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
<b>Skin Corr.</b>	corrosive to skin
<b>Skin Irrit.</b>	irritant to skin
<b>STEL</b>	short-term exposure limit
<b>SVHC</b>	Substance of Very High Concern
<b>TWA</b>	time-weighted average
<b>VOC</b>	Volatile Organic Compounds
<b>vPvB</b>	very Persistent and very Bioaccumulative
<b>WEL</b>	workplace exposure limit

# SAFETY DATA SHEET



According to Regulation (EC) No. 1907/2006 (REACH), amended with 2015/830 / EC

## Elektrolyte GREINOX CLEAN

### Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)
- Dangerous Goods Regulations (DGR) for the air transport (IATA)
- International Maritime Dangerous Goods Code (IMDG)

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H290	may be corrosive to metals
H314	causes severe skin burns and eye damage
H315	causes skin irritation
H318	causes serious eye damage
H319	causes serious eye irritation

Training advice

Provide adequate information, instruction and training for operators.

### Disclaimer

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. It does not represent a guarantee of any properties of the product.