



Material safety data sheet
according to 1907/2006/EC, Article 31

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Trade name: Elektrolytpulver [electrolyte powder]

*** 1. Identification of the substance/preparation and of the company/undertaking**

Product details:

Item number: 42,0411,8041

Use of the substance/preparation

Electrolyte powder for cleaning

Manufacturer/supplier:

Fronius International GmbH
Fronius Straße 5
A-4642 Sattledt, Austria
Tel.: +43 (0)7242 2410
Fax: +43 / (0)7242 241 8799

Office to contact for information:

TSI (TechSupport International)
Tel.: +43 (0)7242 241 3440
Fax: +43 (0)7242 241 3930
E-mail: welding.techsupport@fronius.com
www.fronius.com
Office hours: Mon – Thurs: 08:00 – 16:30
Fri: 08:00 – 12:00

Emergency hotline:

Austrian Anti-Poison Centre: +43 (0)1 406 4343

2. Hazards

Hazards identification:



Xi irritant

Information concerning particular hazards for humans and the environment:

The product has to be labelled due to the calculation method of the "General Classification guideline for preparations of the EU" in the latest valid version. R 41 risk of serious damage to the eyes.



3. Composition/information on the ingredients

Chemical characterisation:

Description:

A mixture of the following substances with non-hazardous admixtures.

Hazardous constituents:

Name	EINECS	CAS	% of weight	Marking
Citric acid	201-069-1	77-92-9	>30%	 Xi; R 36
Sodium bisulphate	231-665-7	7681-38-1	>30%	 Xi; R 41



Additional information:

See section 16 for the wording of the hazard notes listed above.

4. First-aid measures

After inhalation:

Supply fresh air, seek medical attention in case of breathing difficulties.

After skin contact:

The product does not generally cause any skin irritation.

After eye contact:

Rinse the open eye with flowing water for several minutes and seek medical advice.

After swallowing:

Seek medical advice in case of continuing pain.

5. Fire-fighting measures

Suitable extinguishing agents:

CO₂, extinguishing powder or water spray jet. Fight a larger fire with alcohol resistant foam or a water jet.

Special protective equipment for fire-fighters:

No special measures required.

6. Accidental release measures

Person-related safety precautions:

Not required.

Measures for environmental protection:

Do not allow to enter drains, surface water or groundwater.

Measures for cleaning/collecting:

Pick up mechanically.

7. Handling and storage

Handling:

Information for safe handling:

Avoid build-up of dust.

Information about protection against fires and explosions:

No special measures required.

Storage:

Conditions required for storage rooms and vessels:

No special requirements.

Information for storing in one common facility:

Not required.

Additional information on storage conditions:

None



Storage class:

Flammable liquids class: n/a

8. Exposure controls and monitoring/personal protective equipment

Additional information on the design of technical systems:

No additional information, see item 7.

Components with limit values that require monitoring in the workplace:

The product does not contain significant quantities of substances with limit values that require monitoring in the workplace.

Additional information:

The applicable lists used during creation were used as the basis.

Personal protective equipment:

General protective and hygiene measures:

Take off immediately all contaminated clothing. Always wash hands before breaks and after finishing work. Avoid contact with eyes.

Respiratory protection:

Not required.

Hand protection:



Wear protective gloves.

The glove material must be impermeable and resistant against the product / substance / preparation.

Due to the lack of tests, no recommendation on the glove material can be provided for the product / preparation / chemical mix.

The glove material must be chosen based on penetration time, permeation rates and degradation.

Glove material:

The choice of a suitable glove is not just a question of the material: other quality factors that differ from manufacturer to manufacturer must also be considered. As the product is a mixture of several substances, the durability of the glove material cannot be calculated in advance and must therefore be tested before being used.

Glove material penetration time:

The exact penetration time is to be obtained from the glove manufacturer and must be observed.

Eye protection:



Wear close-fitting safety goggles.



* 9. Physical and chemical properties

General information:

Form:	Solid
Colour:	White
Odour:	Characteristic

Change of state:

Melting point/melting range:	Not determined.
Boiling point/boiling range:	Not determined.

Flashpoint: Not applicable.

Spontaneous combustibility: The product does not spontaneously combust.

Explosion hazard: The product is not explosive.

Density at 20°C: 1.32 g/cm³

Solubility in water at 20°C: 1,000 g/l

pH value (10 g/l) at 20°C: 2.2

Solvent content:

Organic solvent:	0.0%
VOC (EU):	0.00%

Solids content: 100%

10. Stability and reactivity

Thermal decomposition:

No decomposition if used according to intended purpose.

Substances to avoid:

Hazardous reactions:

No hazardous reactions if used according to intended purpose.

Hazardous products of decomposition:

No known hazardous decomposition products.

11. Toxicological information

Acute toxicity:

Classification-relevant LD/LC50 values:

77-92-9 citric acid:

Oral LD 50: 5040 mg/kg (mouse)

Irritation to the skin:

No irritation.

Irritation to the eye:

Strong irritant with risk of serious damage to the eye.

Sensitisation:

No sensitising effects known



Additional toxicological information:

The product shows the following hazards due to the calculation procedure of Appendix B of the chemical regulation in its latest version:

Irritating to eyes

12. Ecological information

Other ecological information:

General information:

Water hazard classification 1 (self-classification): slight water hazard

Do not allow to enter water courses, ground water or drains in undiluted and/or large quantities.

13. Disposal

Product:

Recommendation:

Do not dispose of with domestic waste. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation:

Dispose of according to official regulations.

Recommended cleaning agent:

Water, with cleaning agent added if required.

14. Transport information

Not a hazardous cargo.

*** 15. Austrian and EU regulations**

Labelling according to EEC directives:

Code letter and hazard identification of product:

Xi irritant

Risk phrases:

R 41 Risk of serious damage to eyes.

Safety phrases:

S 2 Keep out of the reach of children.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 39 Wear eye/face protection.

S 46 If swallowed, seek medical advice immediately and show this container or label.

S 56 Dispose of this material and its container to hazardous or special waste collection point.



Austrian regulations:

Additional classification according to the Ordinance on Hazardous Substances, Appendix II:

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Classification according to VbF:

n/a

16. Other information

Relevant risk phrases:

R 36 Irritating to eyes.

R 41 Risk of serious damage to eyes.

* Section has been revised.

The information is based on our present knowledge and experience and is intended to describe the products with a view to the safety precautions to take. It does not represent a guarantee of the properties of the product.