

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Magic Print-Electrolyt  
Revision date : 10.07.2015  
Print date : 04.05.2016

Version (Revision) : 1.1.0 (1.0.0)

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

**1.1 Product identifier**

Magic Print-Electrolyte 42,0411,0167

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

Electrolyte

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

**Supplier (manufacturer/importer/only representative/downstream user/distributor)**

Fronius International GmbH

**Street :** Fronius Straße 5

**Postal code/city :** A-4642 Sattledt

**Telephone :** +43 (0)7242 241-0

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**Internet:** www.fronius.com

**Information contact :** msds.techsupport@fronius.com, welding.techsupport@fronius.com

Office hours:

Mon – Thu: 08:00 – 16:30

Fri: 08:00 – 12:00

**1.4 Emergency telephone number**

+44 (0) 20 76 35 91 91

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

None

**2.2 Label elements**

None

**2.3 Other hazards**

None

**SECTION 3: Composition / information on ingredients**

**3.2 Mixtures**

**Hazardous ingredients**

None

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**General information**

When in doubt or if symptoms are observed, get medical advice.

**Following inhalation**

Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.

**In case of skin contact**

After contact with skin, wash immediately with plenty of water and soap. In case of skin reactions, consult a physician.

**After eye contact**

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After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

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

No information available.

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

None

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>) Foam Extinguishing powder Water spray

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

Do not inhale explosion and combustion gases.

#### 5.3 Advice for firefighters

Cool down endangered containers with full water-jet. Use foam in high amounts. Contaminated tempering water is gathered separately and may not reach the sewage system. Use suitable breathing apparatus.

#### 5.4 Additional information

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

### SECTION 6: Accidental release measures

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

Special danger of slipping by leaking/spilling product. Use personal protection equipment.  
See protective measures under point 7 and 8.

#### 6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers).

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Clear spills immediately. Treat the recovered material as prescribed in the section on waste disposal.

#### 6.4 Reference to other sections

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Keep container tightly closed.

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

Keep/Store only in original container. Protect against Frost

##### Hints on joint storage

Storage class (TRGS 510) : 12

#### 7.3 Specific end use(s)

Observe technical data sheet. Observe instructions for use.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

None

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## 8.2 Exposure controls

### Personal protection equipment

#### Eye/face protection



Wear suitable safety goggles in case of splash.

#### Suitable eye protection

Safety goggles acc. EN 166.

#### Skin protection

##### Hand protection



Wear protective gloves in case of longer lasting skin contact.

**Suitable gloves type** : EN 374.

**Suitable material** : NBR (Nitrile rubber)

**Breakthrough time (maximum wearing time)** : 480 min.

**Thickness of the glove material** : 0.4 mm

**Remark** : The exact break trough time has to be requested from the protective glove manufacturer and limits has to be ensured.

#### General health and safety measures

Do not put any product-impregnated cleaning rags into your trouser pockets. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately.

## 8.3 Additional information

No tests have been performed. Selection made for preparations according to the best available knowledge and information on ingredients. In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance** : liquid

**Colour** : colourless

**Odour** : odourless

#### Safety relevant basis data

<b>Initial boiling point and boiling range</b> :	( 1013 hPa )	ca.	100	°C
<b>Flash point</b> :		>	60	°C
<b>Lower explosion limit</b> :			not relevant	
<b>Upper explosion limit</b> :			not relevant	
<b>Vapour pressure</b> :	( 50 °C )		not relevant	
<b>Density</b> :	( 20 °C )	ca.	1,03	g/cm <sup>3</sup>
<b>Solvent separation test</b> :	( 20 °C )		No data available	
<b>Water solubility</b> :	( 20 °C )		completely miscible	
<b>pH</b> :		ca.	7	
<b>Flow time</b> :	( 20 °C )		No data available	DIN-cup 4 mm
<b>Maximum VOC content (EC)</b> :			0	Wt %
<b>Maximum VOC content (Switzerland)</b> :			0	Wt %

### 9.2 Other information

None

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

No information available.

### 10.3 Possibility of hazardous reactions

No information available.

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

No information available.

### 10.6 Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute effects

##### Acute oral toxicity

Parameter : LD50 ( SODIUM CHLORIDE ; CAS No. : 7647-14-5 )  
Exposure route : Oral  
Species : Rat  
Effective dose : > 2000 mg/kg

##### Acute dermal toxicity

Parameter : LD50 ( SODIUM CHLORIDE ; CAS No. : 7647-14-5 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 10000 mg/kg

##### Acute inhalation toxicity

Parameter : LC50 ( SODIUM CHLORIDE ; CAS No. : 7647-14-5 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 42 mg/l  
Exposure time : 1 h

### 11.2 Toxicokinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

### 11.4 Other adverse effects

Frequently or prolonged contact with skin may cause dermal irritation.

### 11.5 Additional information

Mixture not tested. The statement is derived from the properties of the single components.

## SECTION 12: Ecological information

### 12.1 Toxicity

No information available.

### 12.2 Persistence and degradability

No information available.

### 12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

### 12.4 Mobility in soil

No information available.

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## 12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

## 12.6 Other adverse effects

No information available.

## 12.7 Additional ecotoxicological information

None

## SECTION 13: Disposal considerations

The waste codes are recommendations based on the schedule use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances.

### 13.1 Waste treatment methods

#### Product/Packaging disposal

##### Waste codes/waste designations according to EWC/AVV

###### Waste code product

07 06 01\* - aqueous washing liquids and mother liquors

###### Waste code packaging

15 01 02 - plastic packaging.

##### Waste treatment options

###### Appropriate disposal / Package

Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium.

### 13.2 Additional information

These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use.

## SECTION 14: Transport information

### 14.1 UN number

No dangerous goods in sense of this transport regulation.

### 14.2 UN proper shipping name

No dangerous goods in sense of this transport regulation.

### 14.3 Transport hazard class(es)

No dangerous goods in sense of this transport regulation.

### 14.4 Packing group

No dangerous goods in sense of this transport regulation.

### 14.5 Environmental hazards

No dangerous goods in sense of this transport regulation.

### 14.6 Special precautions for user

None

## SECTION 15: Regulatory information

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

#### National regulations

AT: Labelling according to Austrian regulations (Chemikaliengesetz/ChemV).

CH: Chemikalienverordnung (ChemV) and Chemikalien-Risikoreduktions-Verordnung (Chem RRV) are complied.

#### Water hazard class (WGK)

Class : 1 (Slightly hazardous to water) according Self classification

#### Other regulations, restrictions and prohibition regulations

Betriebssicherheitsverordnung (BetrSichV)

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GRENZEN VERSCHIEBEN

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No flammable liquid according to BetrSichV.

### 15.2 Chemical Safety Assessment

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

## SECTION 16: Other information

### 16.1 Indication of changes

02. Classification of the substance or mixture · 02. Label elements

### 16.2 Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX: adsorbable organohalogens

CAS: Chemical Abstracts Service (division of the American Chemical Society)

CLP: Classification Labelling and Packaging (Regulation (EC) No. 1272/2008)

EAK / AVV: europäischer Abfallschlüsselkatalog (European waste catalogue)

EINECS: European Inventory of Existing Commercial Chemical Substances

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Code for Dangerous Goods

RCP: reciprocal calculation procedure

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

TRGS: Technische Regel für den Umgang mit Gefahrstoffen

VbF: Verordnung über brennbare Flüssigkeiten

VOC: volatile organic compound

VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe

WGK: Wassergefährdungsklasse (water hazardous class)

### 16.3 Key literature references and sources for data

DGUV: GESTIS-Stoffdatenbank

ECHA: Classification And Labelling Inventory

ECHA: Registered Substances

ECHA: Registered Substances

EC\_Safety Data Sheet of Suppliers

ESIS: European Chemical Substances Information System

GDL: Gefahrstoffdatenbank der Länder

UBA Rigoletto: Wassergefährdende Stoffe

### 16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

No information available.

### 16.5 Relevant H- and EUH-phrases (Number and full text)

None

### 16.6 Training advice

None

### 16.7 Additional information

None

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.