

Safety data sheet

according to Regulation (EC) No 1907/2006 (REACH)

Printing date 02.02.2017

Version number 3

Revision: 31.01.2017

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

• 1.1 Product identifier

- Trade name: ELY/BR/503
- Article number: 106575

- Description: Bridge electrolyte solution

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

- Product category: PC21 Laboratory chemicals
- Process category: PROC15 Use as laboratory reagent
- Application of the substance / the preparation: Laboratory chemical

• 1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

Xylem Analytics Germany GmbH
Dr.-Karl-Slevogt-Str. 1
82362 Weilheim
Germany

Contact: SI Analytics, Mainz
Tel. +49.(0)6131.66.5111

- Further information obtainable from: E-Mail: msds.si@xyleminc.com

- **1.4 Emergency telephone number:** Chemtrec: (USA & Canada) 800-424-9300 (International) 001 703-527-3887

SECTION 2: Hazards identification

• 2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008:
The product is not classified according to the CLP regulation.

• 2.2 Label elements:

- 2.2.1 Labelling according to Regulation (EC) No 1272/2008: Void
- Hazard pictograms: Void
- Signal word: Void
- Hazard statements: Void
- **2.3 Other hazards** No further relevant information available.

SECTION 3: Composition/information on ingredients

• 3.2 Mixture

- Description:
Mixture, consisting of the following components:
Water, potassium nitrate

- Dangerous components:

CAS: 7757-79-1	potassium nitrate	 Ox. Sol. 2, H272	5-<10%
EINECS: 231-818-8			

- Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

• 4.1 Description of first aid measures

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Rinse skin with water/shower.

(Contd. on page 2)

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(Contd. of page 1)

- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:
Rinse out mouth and then drink plenty of water.
Get medical advice/attention if you feel unwell.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- Suitable extinguishing agents: The product is not flammable. Extinguishing agent to suit environment.
- **5.2 Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Nitrogen oxides (NO_x)
- **5.3 Advice for firefighters**
- Protective equipment: Wear self-contained respiratory protective device.
- Additional information
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation
- **6.2 Environmental precautions:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special precautions are necessary if used correctly.
- Information about fire - and explosion protection: No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
Store tightly sealed at temperatures between 15 °C and 25 °C.
Prevent from drying out.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- **8.1 Control parameters**
- Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- Personal protective equipment:
- General protective and hygienic measures:
Avoid contact with the eyes and skin.
Do not inhale gases / fumes / aerosols.

(Contd. on page 3)

Safety data sheet

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(Contd. of page 2)

Take off contaminated clothing and wash it before reuse.

Wash hands before breaks and at the end of work.

- Respiratory protection: Not required.
- Protection of hands: Protective gloves recommended for frequent or long-term skin contact.
- Material of gloves Nitrile rubber, NBR
- Eye protection: Safety glasses

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical properties	
• General Information	
• Appearance:	
Form:	Fluid
Colour:	Colourless
• Odour:	Odourless
• pH-value at 20 °C:	7
• Change in condition	
Initial boiling point and boiling range: 100 °C	
• Flash point:	Not applicable.
• Auto-ignition temperature:	Product is not selfigniting.
• Explosive properties:	Product does not present an explosion hazard.
• Density at 20 °C:	1,05 g/cm ³
• Solubility in / Miscibility with water:	Fully miscible.
• Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
• 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
Do not evaporate the solution.
Solid potassium nitrate is oxidizing.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: In case of fire, see section 5.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.

• LD/LC50 values relevant for classification:

7757-79-1 potassium nitrate

Oral LD50 3015 mg/kg (Rat) (IUCLID)

- Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.

(Contd. on page 4)

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(Contd. of page 4)

<ul style="list-style-type: none"> • 14.3 Transport hazard class(es) • ADR/RID, ADN, IMDG, IATA • Class 	Void
<ul style="list-style-type: none"> • 14.4 Packing group • ADR/RID, IMDG, IATA 	Void
<ul style="list-style-type: none"> • 14.5 Environmental hazards: 	Not applicable.
<ul style="list-style-type: none"> • 14.6 Special precautions for user 	Not applicable.
<ul style="list-style-type: none"> • 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code 	Not applicable.
<ul style="list-style-type: none"> • UN "Model Regulation": 	Void

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I potassium nitrate
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

- Relevant phrases
H272 May intensify fire; oxidiser.
- Abbreviations and acronyms:
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Ox. Sol. 2: Oxidizing solids – Category 2