



marking elektrolyte universal

Safety data sheet

According to 1907/2006 EG/ REACH

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reworked 29.05.2018

1. **substance / preparation and company name**

name: marking electrolyte universal
supplier: HS-Cleaner , Werner Krauter GmbH,
Siemensstraße 2-5, D-73037 Göppingen
phone: 07161 / 9383-102, Telefax 07161 / 9383-9102
emergency information: see above

2. **Composition / Details on components**

contains: potassium nitrate in water

Cas-Nr.: 7757-79-1
Mg : 101,11
Summenformel: KNO₃
Unit: totals formula KNO₃
EG-Index-Nr._ -----
EINECS-Nummer : 231-818-8

3. **Possible dangers / potential hazards**

4. **First-Aid-measures**

Skin contact: Take off the contaminated clothes and wash off immediately.
Eye contact: Wash the opened eye thoroughly. Consult an eye doctor.
Swallowing: Cause vomiting. Drink enough water. Consult a doctor. Breathe fresh air.

After breathing in thermic products of decomposition: consult a doctor, Formation of a lung edeme (symptoms can emerge delayed).

5. **Fire-fighting measures**

Suitable deleting means: water, foam
Special dangers: In case of fire formation of poisonous gasses is possible.

6. **Measures for accidental release**

Soak up with absorbent material (sand, universal absorber).. Do not use it anymore. Acidic, ammonium containing and flammable absorbent material. Dispose the material correctly. Clean the contaminated area.



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7. **Handling and storage**

Storage: Store divorced from reduction means and dark and cold

8. **Exposure controls and personal protection**

Personal protective equipment:

Eye protection: required
Hand protection: required
Details on working hygiene: The usual precautions while using chemicals have to be followed. Preventing skin protection. Before the breaks and after finishing work wash hands. Keep away from food, drinks and feeding means.

9. **physical and chemical qualities**

Form:		fluid
colour:		colourless
Smell:		dully-sweet
PF-value	(20°C)	about 7
Melting point		-4°C
Boiling point		> 100°C
Point of ignition		not available
Flaming point		not available
Ex-limit	lower upper	not available not available
Density (20°C)		1,09 Kg / L
Shaking density		not available
Solubility in water		mixable
Thermal decomposition		not available
Viscosity		20° c 10-50mP a.s (Theo STV MS3)

10. **Stability and reactivity**

Conditions to be avoided
Thermal decomposition of potassium nitrate at temperatures with more than 600°C

Dangerous products of decomposition nitrates, gasses, nitrogen, potassium oxide

Further details



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11. Details on toxicology

(for the pure chemical potassium nitrate) Irritations after eye contact, Irritations after skin contact.

After absorption: Dangers of methamoglobin formation.

LD50 (oral, rate): 3750 mg/Kg.

12. Details on ecology

(For the clean material potassium nitrate) not letting reach waters or waste waters. Aquatic toxicity: fish toxicity: EC/LC 50: >1000 mg/l/60h. Behaviour in purification plants: At a correct lead in, a small concentration in adapted biological purification plants are no disturbing of dismantling the activated sludge to expect.

General explanation: nitrates can lead to an eutrophication of waters, therefore do not let reach concentrate into waters or waste waters.

13. Details on disposal

Product:

There are no uniform regulations for the disposal of chemicals and/or. Residual substances in the EC. Chemicals that are resulting as residual substances, are usually special refuse. The disposal is ruled by the according laws and/or Regulations of the EC-member countries such as in Germany ruled by the laws of the federal republic. Please get in contact with the responsible Authority (Authorities or disposal enterprises), that is informing you about the right disposal.

Packaging:

Disposal according to the official regulations

14. Details on transportation:

Land transport ADR/RID and GGVS/GGVE

is no subject in the ADR according to. Rn 2501 Zif.22 Bern. 3

Sea transport IMDG/GGVSee:

IMDG/GGVSea-class: 5.1 UN-Number: 3218
Packaging group: UU EmS: 5.1-06 MFAG:

235 Designation of the goods: NITRATE, INORGANIC, AQUEOUS SOLUTION. N.O.S

Air transport ICAO – TI and ITA-DGR

ICAO-IATA-class: 5.1 UN-/ID-number: 3218
packaging group III Designation of the

good: NITRATE, INORGANIC, AQUEOUS SOLUTION. N.O.S



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15. Regulations

Marking after EC-guidelines

symbol: ----

Designation: ----

Designation after EC-guidelines Continuation

R-Sets ----

S-Sets ----

EWG-number: **231-818-8** EWG designation (valid for the clean potassium nitrate)

German regulations (for the clean potassium nitrate)

Other national regulation *swiss p0ision class 4*

Store category *5.1b*

Water hazard class *WGK 1*

16. Other Details

1) Details on using (electrolyte. Metal marking)

It can not be excluded by hundred percent, that with the electrolyte processing of the autolyte-products the formation and release of decomposition products is possible. For this reason we recommend, to care for a sufficient ventilation in the room you are working in with the electrolytic metal marking.

2) Details for the doctor (for the clean substance)

The substance potassium nitrate can work as a methamoglobin-former (headaches, Nauseas, hypotonosis, cyanosis of skin and mucous membrane, cyclecollaps). After oral admission cause vomitting or accomplish a gastrolavage with taking care of the usual medical precautions.

afterwards natrium sulfuricum

The details in this safety data sheet are based on today's stand of our knowledge the national as well as the EU legislation one. The user is responsible for the compliance with all necessary legal regulations the safety requirements describe ours to the details in this safety data sheet. Product and not represent any assurance of product qualities