Page 1/7

Revision: 29.08.2023

Version 6 (replaces version 5)

# SECTION 1: Identification of the substance or mixture and of the supplier

**Product identifier** 

Trade name: Electrolyte COS41/COS51x Article number: COV45-41TNx/51Txx

Recommended use of the chemical and restrictions on use No further relevant information available.

Application of the substance / the mixture Laboratory chemicals

Supplier's details Manufacturer/Supplier:

Endress+Hauser Conducta GmbH+Co. KG Dieselstraße 24 D-70839 Gerlingen

Further information obtainable from:

Phone: +49 (0)7156 209-10117 E-Mail: MSDS.PCC @endress.com

Emergency phone number +27 (0)861 555 777

#### **SECTION 2: Hazard identification**

#### Classification of the substance or mixture



Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

**GHS** label elements **GHS** label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

#### **Hazard pictograms**



## Signal word Danger

#### **Hazard statements**

Causes severe skin burns and eye damage.

#### **Precautionary statements**

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER/doctor.

Specific treatment (see on this label).

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

## Other hazards

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

#### Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

(Contd. on page 2)

in accordance with SANS

Version 6 (replaces version 5)

Printing date 29.08.2023 Revision: 29.08.2023

Trade name: Electrolyte COS41/COS51x

(Contd. of page 1)

## **SECTION 3: Composition or information on ingredients**

**Mixtures** 

**Description:** Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
	potassium carbonate	5-10%
EINECS: 209-529-3	♦ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	

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

#### **SECTION 4: First-aid measures**

#### Description of necessary first-aid measures

General information: Immediately remove any clothing soiled by the product.

After inhalation: In case of unconsciousness place patient stably in side position for transportation.

#### After skin contact:

Rinse with warm water.

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.

Most important symptoms or effects, acute and delayed No further relevant information available.

Indication of immediate medical attention and special treatment needed, if necessary

No further relevant information available.

# **SECTION 5: Fire-fighting measures**

## Suitable extinguishing media

Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: no further information

Specific hazards arising from the chemical

During heating or in case of fire poisonous gases are produced.

Special protective actions for fire fighters No further relevant information available.

Protective equipment: Mount respiratory protective device.

## **SECTION 6: Accidental release measures**

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

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

Wear protective clothing.

#### **Environmental precautions:**

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

## Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent.

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

## Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

(Contd. on page 3)

in accordance with SANS

Printing date 29.08.2023

Version 6 (replaces version 5)

Trade name: Electrolyte COS41/COS51x

(Contd. of page 2)

Revision: 29.08.2023

See Section 13 for disposal information.

## **SECTION 7: Handling and storage**

#### Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about fire - and explosion protection: Keep respiratory protective device available.

Conditions for safe storage, including any incompatibilities

#### Storage:

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: *Keep container tightly sealed.* 

Storage class: 8 B

Specific end use(s) No further relevant information available.

## **SECTION 8: Exposure controls or personal protection**

## **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.

#### **Exposure controls**

Appropriate engineering controls No further data; see section 7.

Individual protection measures, such as personal protective equipment (PPE)

#### General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

## Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

#### Hand protection

Protective gloves and protective skin cream



Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum.

Only use chemical-protective gloves with CE-labelling of category III.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

## **Material of gloves**

Nitrile rubber, NBR

Chloroprene rubber, CR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 4)

in accordance with SANS Printing date 29.08.2023

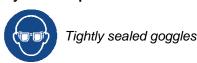
Version 6 (replaces version 5)

Trade name: Electrolyte COS41/COS51x

(Contd. of page 3)

Revision: 29.08.2023

#### Eye or face protection



Body protection: Protective work clothing

## **SECTION 9: Physical and chemical properties**

Information on basic physical and chemical properties

**General Information** 

Physical state Fluid Colourless Colour: Odour: Odourless **Odour threshold:** Not determined.

Melting point/freezing point: 6°C 100 °C نقطة الغليان أو نقطة الغليان الأولية ونطاق الغليان

**Flammability** Not applicable.

Upper or lower flammability or explosive limits

Lower: Not determined. Upper: Not determined. Flash point: Not applicable. **Decomposition temperature:** Not determined. 12.3

pH at 20 °C

Viscosity:

**Viscosity** Not determined.

**Viscosity** 

Dynamic: Not determined.

Solubility

water: Fully miscible. Not determined. Partition coefficient: n-octanol or water

23 hPa Vapour pressure at 20 °C:

Vapour pressure:

Vapour density + Relative density

Density at 20 °C: 1.059 g/cm<sup>3</sup> Relative density Not determined. Vapour density Not determined.

Other information Appearance:

Form: Fluid

Important information on protection of health

and environment, and on safety.

**Ignition temperature:** Product is not selfigniting.

Product does not present an explosion hazard. **Explosive properties:** 

Not determined.

Solvent content:

Water: >85.0 % Solids content: 0.0 %

Change in condition

Not determined. **Evaporation rate** 

Information with regard to physical hazard

classes

**Explosives** Void Flammable gases Void **Aerosols** Void **Oxidising gases** Void

(Contd. on page 5)

in accordance with SANS Printing date 29.08.2023

Version 6 (replaces version 5)

Trade name: Electrolyte COS41/COS51x

(Contd. of page 4)

Revision: 29.08.2023

Gases under pressure Void Flammable liquids Void Flammable solids Void Self-reactive substances and mixtures Void **Pyrophoric liquids** Void **Pyrophoric solids** Void Self-heating substances and mixtures Void Substances and mixtures, which emit flammable gases in contact with water Void Oxidising liquids Void Oxidising solids Void Organic peroxides Void Corrosive to metals Void **Desensitised explosives** Void

## **SECTION 10: Stability and reactivity**

Reactivity No further relevant information available.

Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

**Conditions to avoid** *No further relevant information available.* 

**Incompatible materials:** No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

# **SECTION 11: Toxicological information**

Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

CAS: 584-08-7 potassium carbonate

Oral LD50 1,870 mg/kg (rat)

Skin corrosion or irritation Causes severe skin burns and eye damage.

Serious eye damage or irritation Causes serious eye damage.

Information on other hazards

endocrine disrupting potential

None of the ingredients is listed.

## **SECTION 12: Ecological information**

**Toxicity** 

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

**Endocrine disrupting properties** 

The product does not contain substances with endocrine disrupting properties.

Other adverse effects

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

(Contd. on page 6)

Printing date 29.08.2023 Version 6 (replaces version 5) Revision: 29.08.2023

Trade name: Electrolyte COS41/COS51x

(Contd. of page 5)

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

# **SECTION 13: Disposal considerations**

#### Waste treatment methods

#### Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

#### Uncleaned packaging:

**Recommendation:** Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

## **SECTION 14: Transport information**

**UN** number

ADN, IMDG, IATA Void

UN proper shipping name ADR, ADN, IMDG, IATA

Void

Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class

Packing group

ADR, IMDG, IATA Void

**Environmental hazards:**Special precautions for user
Not applicable.
Not applicable.

Transport in bulk according to Annex II of

MARPOL 73/78 and the IBC Code Not applicable.

UN "Model Regulation": Void

## SECTION 15: Regulatory information

# Safety, health and environmental regulations specific for the product in question GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS). **Hazard pictograms** 



GHS05

#### Signal word Danger

#### **Hazard statements**

Causes severe skin burns and eye damage.

## **Precautionary statements**

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER/doctor.

Specific treatment (see on this label).

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 7)

in accordance with SANS Printing date 29.08.2023

Version 6 (replaces version 5)

Trade name: Electrolyte COS41/COS51x

(Contd. of page 6)

Revision: 29.08.2023

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

**National regulations:** 

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Department issuing SDS:** PCC-TWR Contact: MSDS.pcc@endress.com 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 relatif au transport international 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

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

Skin Corr. 1A: Skin corrosion/irritation - Category 1A

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

\* Data compared to the previous version altered.