

| EBC standard color index (EBC) 6 for determination of the color strength of beer and beer wort | | | | | | | |
|---|--|--|--------------|--|--|--|--|
| Revision date: 21.03.2024 | Product code: 192 | 31 | Page 1 of 14 | | | | |
| SECTION 1: Identification of the | substance/mixture and of the con | npany/undertaking | | | | | |
| <u>1.1. Product identifier</u> EBC standard color index (EE | 3C) 6 for determination of the color stren | gth of beer and beer wort | | | | | |
| UFI: | CDDQ-0104-U00V-0824 | | | | | | |
| 1.2. Relevant identified uses of the | substance or mixture and uses advise | against | | | | | |
| | ances as such or in preparations at indunation at indunation (administration, education, entertair | | | | | | |
| Uses advised against Do not use for private purpose | es (household). | | | | | | |
| 1.3. Details of the supplier of the sa | , , | | | | | | |
| Company name: | AnalytiChem GmbH ACD | | | | | | |
| Street: Place: | Stempelstraße 6 D-47167 Duisburg | | | | | | |
| Telephone: E-mail: | 0203/5194-0 info@analytichem.de | Telefax: 0203/5194-290 | | | | | |
| Contact person: E-mail: Internet: Responsible Department: | Abteilung Produktsicherheit produktsicherheit@analytichem.de www.analytichem.de Abteilung Produktsicherheit | Telephone: 0203/5194-107/117 | | | | | |
| <u>1.4. Emergency telephone</u> number: | Exposure, or Accident Call CHEMT | rous Goods] Incidents Spill, Leak, Fire, REC Day or Night Within USA and Canada Canada: +1 703-741-5970 (collect calls | a: | | | | |
| Further Information | | | | | | | |

This product is a mixture. REACH Registration Number see section 3.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008 Met. Corr. 1; H290 Carc. 1B; H350i

Carc. 1B; H350i Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling Cobalt(II) chloride hexahydrate

Signal word: Danger

Signal word: Pictograms:





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EBC standard color index (EBC) 6 for determination of the color strength of beer and beer

according to Regulation (EC) No 1907/2006

| | wort | |
|---------------------------|---|--------------|
| Revision date: 21.03.2024 | Product code: 19281 | Page 2 of 14 |
| Hazard statements | | |
| H290 | May be corrosive to metals. | |
| H350i | May cause cancer by inhalation. | |
| H412 | Harmful to aquatic life with long lasting effects. | |
| Precautionary statemer | nts | |
| P201 | Obtain special instructions before use. | |
| P273 | Avoid release to the environment. | |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. | |
| P308+P313 | IF exposed or concerned: Get medical advice/attention. | |
| P390 | Absorb spillage to prevent material damage. | |
| Special labelling of cert | tain mixtures | |
| EUH208 | Contains dipotassium hexachloroplatinate, Cobalt(II) chloride hexahydrate. May produce an allergic reaction. Restricted to professional users. | |

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixtures in aqueous solution

Relevant ingredients

| CAS No | Chemical name | | | | |
|------------|---|------------------|------------------|-----------|--|
| | EC No | Index No | REACH No | | |
| | Classification (Regulation (EC) No | 1272/2008) | | | |
| 7647-01-0 | Hydrochloric acid | | | 1 - < 5 % | |
| | 231-595-7 | 01-2119484862-27 | | | |
| | Skin Corr. 1B, STOT SE 3; H314 F | 1335 | | | |
| 16921-30-5 | dipotassium hexachloroplatinate | < 1 % | | | |
| | 240-979-3 | 078-007-00-3 | | | |
| | Acute Tox. 3, Eye Dam. 1, Resp. S | | | | |
| 7791-13-1 | Cobalt(II) chloride hexahydrate | < 1 % | | | |
| | 231-589-4 | 027-004-00-5 | 01-2119517584-37 | | |
| | Carc. 1B, Muta. 2, Repr. 1B, Acute Chronic 1; H350i H341 H360F H30 | | | | |

Full text of H and EUH statements: see section 16.



according to Regulation (EC) No 1907/2006

EBC standard color index (EBC) 6 for determination of the color strength of beer and beer

wort

Product code: 19281

Page 3 of 14

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|------------|---------------|--|-----------|
| | Specific Conc | . Limits, M-factors and ATE | |
| 7647-01-0 | 231-595-7 | Hydrochloric acid | 1 - < 5 % |
| | | ; H314: >= 25 - 100 Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >= 10 - < E 3; H335: >= 10 - 100 | |
| 16921-30-5 | 240-979-3 | dipotassium hexachloroplatinate | < 1 % |
| | oral: LD50 = | 195 mg/kg | |
| 7791-13-1 | 231-589-4 | Cobalt(II) chloride hexahydrate | < 1 % |
| | Aquatic Acute |) = > 2000 mg/kg; oral: LD50 = 537 mg/kg Carc. 1B; H350i: >= 0,01 - 100 e 1; H400: M=10 nic 1; H410: M=10 | |

Further Information

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: cobalt dichloride

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Self-protection of the first aider

After inhalation

Provide fresh air. Call a physician immediately.

After contact with skin

Wash immediately with: Water Take off immediately all contaminated clothing and wash it before reuse. Call a physician immediately.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Rinse mouth immediately and drink plenty of water.

Call a physician immediately.

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

Irritant

Allergic reactions

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Non-combustible liquids

Hazardous combustion products



EBC standard color index (EBC) 6 for determination of the color strength of beer and beer

wort

Revision date: 21.03.2024

Product code: 19281

Page 4 of 14

In case of fire may be liberated: Hydrochloric gas Metal oxide smoke, toxic

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit. Avoid contact with skin, eyes and clothes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Corrosive to metals.

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

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

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Read label before use. Handle and open container with care. When using do not eat, drink, smoke, sniff. Keep container tightly closed. Use personal protection equipment. Use extractor hood (laboratory).



EBC standard color index (EBC) 6 for determination of the color strength of beer and beer

according to Regulation (EC) No 1907/2006

wort

Revision date: 21.03.2024

Product code: 19281

Page 5 of 14

Provide adequate ventilation.

Avoid contact with skin, eyes and clothes.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Further information on handling

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Store in a place accessible by authorized persons only.

Further information on storage conditions

Unsuitable container/equipment material: Metal

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

| CAS No | Substance | ppm | mg/m³ | fib/cm³ | Category | Origin |
|-----------|-------------------|-----|-------|---------|---------------|--------|
| 7647-01-0 | Hydrogen chloride | 5 | 8 | | TWA (8 h) | |
| | | 10 | 15 | | STEL (15 min) | |

DNEL/DMEL values

| CAS No | Substance | | | | | | |
|---|---------------------------------------|----------------|----------|----------------------|--|--|--|
| DNEL type | | Exposure route | Effect | Value | | | |
| 7647-01-0 | Hydrochloric acid | | | | | | |
| Worker DNEL, long-term inhalation local 8 mg/m³ | | | | | | | |
| Worker DNEL, acute inhalation local 15 mg/m³ | | | | | | | |
| Consumer DNEL, long-term inhalation local 8 mg/m ³ | | | | | | | |
| Consumer DNEL, acute inhalation local 15 mg/m ³ | | | | 15 mg/m³ | | | |
| 7791-13-1 | -13-1 Cobalt(II) chloride hexahydrate | | | | | | |
| Consumer DN | EL, long-term | oral | systemic | 0,12 mg/kg bw/day | | | |



EBC standard color index (EBC) 6 for determination of the color strength of beer and beer

wort

Revision date: 21.03.2024

Product code: 19281

Page 6 of 14

PNEC values

| CAS No | Substance | | |
|----------------------|---------------------------------|---------------|--|
| Environment | al compartment | Value | |
| 16921-30-5 | dipotassium hexachloroplatinate | | |
| Freshwater 0,00014 r | | | |
| Freshwater (| intermittent releases) | 0,000205 mg/l | |
| Marine wate | r | 0,000017 mg/l | |
| Freshwater s | sediment | 0,261 mg/kg | |
| Marine sedin | 0,026 mg/kg | | |
| Micro-organi | 0,125 mg/l | | |
| Soil | | 0,005 mg/kg | |
| 7791-13-1 | Cobalt(II) chloride hexahydrate | | |
| Freshwater | | 0,0006 mg/l | |
| Marine wate | r | 0,00236 mg/l | |
| Freshwater s | sediment | 9,5 mg/kg | |
| Marine sedin | 9,5 mg/kg | | |
| Micro-organi | 0,37 mg/l | | |
| Soil | | 10,9 mg/kg | |

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: Face protection shield goggles.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact Recommended glove articles: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Recommended glove articles: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with occasional contact (splashes): > 480 min



EBC standard color index (EBC) 6 for determination of the color strength of beer and beer

Product code: 19281

wort

Revision date: 21.03.2024

Page 7 of 14

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Wear suitable protective clothing. Protective clothing acid-resistant

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Physical state: | Liquid | |
|--|--------------------|---------------------------|
| Colour: | yellow | |
| Odour: | odourless | |
| Melting point/freezing point: | | No data available |
| Boiling point or initial boiling point | and | No data available |
| boiling range: | | |
| Flammability: | | not applicable |
| Lower explosion limits: | | No data available |
| Upper explosion limits: | | No data available |
| Flash point: | | Х |
| Auto-ignition temperature: | | No data available |
| Decomposition temperature: | | No data available |
| pH-Value: | | acidic |
| Viscosity / kinematic: | | No data available |
| Water solubility: | | No data available |
| Solubility in other solvents | | |
| not determined | | |
| Partition coefficient n-octanol/wate | er: | No data available |
| Vapour pressure: | | No data available |
| Vapour pressure: | | No data available |
| Density (at 20 °C): | | 1,02299 g/cm ³ |
| Bulk density: | | No data available |
| Relative vapour density: | | No data available |
| 9.2. Other information | | |
| Information with regard to physi | cal hazard classes | |
| Explosive properties | | |
| No data available | | |
| Self-ignition temperature | | |
| Solid: | | not applicable |
| Gas: | | not applicable |
| Oxidizing properties | | |
| No data available | | |

No data available

Evaporation rate:

Other safety characteristics



F

according to Regulation (EC) No 1907/2006

EBC standard color index (EBC) 6 for determination of the color strength of beer and beer

| | wort | |
|---------------------------|---------------------|--------------|
| Revision date: 21.03.2024 | Product code: 19281 | Page 8 of 14 |
| Solvent separation test: | No data available | |
| Solvent content: | No data available | |
| Solid content: | No data available | |
| Sublimation point: | No data available | |
| Softening point: | No data available | |
| Pour point: | No data available | |
| No data available: | | |
| Viscosity / dynamic: | No data available | |
| Flow time: | No data available | |
| | | |

Further Information

Corrosive to metals

SECTION 10: Stability and reactivity

10.1. Reactivity

Corrosive to metals.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

The product develops hydrogen in an aqueous solution in contact with metals.

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

Keep away from: Metal.

The product develops hydrogen in an aqueous solution in contact with metals.

10.6. Hazardous decomposition products

In case of fire may be liberated: SECTION 5: Firefighting measures

Further information

No data available

SECTION 11: Toxicological information

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

Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l



according to Regulation (EC) No 1907/2006

EBC standard color index (EBC) 6 for determination of the color strength of beer and beer

wort

Product code: 19281

Page 9 of 14

| CAS No | Chemical name | | | | | | | | | |
|------------|---------------------------------|-----------------|--------|---------|--|--------------------|--|--|--|--|
| | Exposure route | Dose | | Species | Source | Method | | | | |
| 16921-30-5 | dipotassium hexachloroplatinate | | | | | | | | | |
| | oral | LD50 ŕ mg/kg | 195 | Rat | Study report (1995) | OECD Guideline 401 | | | | |
| 7791-13-1 | Cobalt(II) chloride hexahy | drate | | | | | | | | |
| | oral | LD50 5 mg/kg | 537 | Rat | Revista Española de Fisiologia, 39: 291 | OECD Guideline 401 | | | | |
| | dermal | LD50 > mg/kg | > 2000 | Rat | Study report (2007) | OECD Guideline 402 | | | | |

Irritation and corrosivity

Based on available data, the classification criteria are not met. slightly irritant but not relevant for classification.

Sensitising effects

Based on available data, the classification criteria are not met. Contains dipotassium hexachloroplatinate, Cobalt(II) chloride hexahydrate. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

May cause cancer by inhalation. (Cobalt(II) chloride hexahydrate) Germ cell mutagenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

Specific effects in experiment on an animal

There are no data available on the mixture itself.

Additional information on tests

There are no data available on the mixture itself.

Practical experience

There are no data available on the mixture itself.

11.2. Information on other hazards

Other information

There are no data available on the mixture itself.

Further information

Irritant

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.



according to Regulation (EC) No 1907/2006

EBC standard color index (EBC) 6 for determination of the color strength of beer and beer

Product code: 19281

wort

Page 10 of 14

| CAS No | Chemical name | | | | | | | | |
|------------|---------------------------------|---------------|----------|-----------|--|--|--|--|--|
| | Aquatic toxicity | Dose | | [h] [d] | Species | Source | Method | | |
| 7647-01-0 | Hydrochloric acid | | | | | | | | |
| | Acute fish toxicity | LC50 | 862 mg/l | 96 h | Leuciscus idus | | | | |
| 16921-30-5 | dipotassium hexachloropl | atinate | | | | | | | |
| | Acute fish toxicity | LC50 mg/l | 76,55 | 96 h | Oncorhynchus mykiss | Study report (2005) | OECD Guideline 203 | | |
| | Acute algae toxicity | ErC50 | 1,3 mg/l | 72 h | Desmodesmus subspicatus | Study report (2001) | OECD Guideline 201 | | |
| | Acute crustacea toxicity | EC50 mg/l | 0,0608 | 48 h | Daphnia magna | Study report (2005) | OECD Guideline 202 | | |
| | Crustacea toxicity | NOEC mg/l | 0,007 | 21 d | Daphnia magna | J. Fish. Res. Bd. Canada 29: 1691-1700 (| A standard guideline was not followed, b | | |
| | Acute bacteria toxicity | EC50 () | 103 mg/l | 3 h | activated sludge of a predominantly domestic sewag | Study report (2015) | OECD Guideline 209 | | |
| 7791-13-1 | Cobalt(II) chloride hexahydrate | | | | | | | | |
| | Acute fish toxicity | LC50 mg/l | 54,1 | 96 h | Pimephales promelas | Study report (2009) | other: ASTM guideline | | |
| | Acute algae toxicity | ErC50 mg/l | 71,314 | 96 h | Dunaliella tertiolecta | Study report (2010) | other: American Society for Testing and | | |
| | Acute crustacea toxicity | EC50 mg/l | 42,7 | 48 h | Aeolosoma sp. | Study report (2008) | Newman, J.P., Jr. 1975. The effects of h | | |
| | Fish toxicity | NOEC mg/l | 0,21 | 34 d | Pimephales promelas | Study report (2009) | other: This study was conducted accordin | | |
| | Algae toxicity | NOEC mg/l | 0,0018 | 7 d | Champia parvula | Study report - model refit from original | other: EPA 821-R- 02-014, Method 1009.0 | | |
| | Crustacea toxicity | NOEC mg/l | 0,1697 | 14 d | Aeolosoma sp. | Study report (2008) | other: Newman, J.P., Jr. 1975. The effec | | |
| | Acute bacteria toxicity | EC50 () | 120 mg/l | 0,5 h | Activated sludge | Study report (2010) | OECD Guideline 209 | | |

12.2. Persistence and degradability

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

| CAS No | Chemical name | BCF | Species | Source |
|-----------|---------------------------------|-----|-----------------|----------------------|
| 7791-13-1 | Cobalt(II) chloride hexahydrate | 23 | Asterias rubens | Marine Pollution Bul |

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties



EBC standard color index (EBC) 6 for determination of the color strength of beer and beer

Product code: 19281

wort

Page 11 of 14

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

Revision date: 21.03.2024

Discharge into the environment must be avoided.

Further information

Do not empty into drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a physico-chemical treatment facility under observation of official regulations. Do not empty into drains.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

Land transport (ADR/RID)

| 14.1. UN number or ID number: | UN 1789 |
|--|---|
| 14.2. UN proper shipping name: | HYDROCHLORIC ACID |
| 14.3. Transport hazard class(es): | 8 |
| 14.4. Packing group: | III |
| Hazard label: | 8 |
| Classification code: | C1 |
| Special Provisions: | 520 |
| Limited quantity: | 5 L |
| Excepted quantity: | E1 |
| Transport category: | 3 |
| Hazard No: | 80 |
| Tunnel restriction code: | E |
| Inland waterways transport (ADN) | |
| 14.1. UN number or ID number: | UN 1789 |
| 14.2. UN proper shipping name: | HYDROCHLORIC ACID |
| 14.2. On proper emponing name. | |
| 14.3. Transport hazard class(es): | 8 |
| | 8 III |
| 14.3. Transport hazard class(es): | • |
| <u>14.3. Transport hazard class(es):</u> 14.4. Packing group: | |
| 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: | 8 |
| 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Classification code: | III 8 C1 |
| 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Classification code: Special Provisions: | III 8 C1 520 |
| 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Classification code: Special Provisions: Limited quantity: Excepted quantity: | III 8 C1 520 5 L |
| 14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Classification code:Special Provisions:Limited quantity:Excepted quantity:Marine transport (IMDG) | III 8 C1 520 5 L |
| 14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Classification code:Special Provisions:Limited quantity:Excepted quantity:Marine transport (IMDG)14.1. UN number or ID number: | III 8 C1 520 5 L E1 |
| 14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Classification code:Special Provisions:Limited quantity:Excepted quantity:Marine transport (IMDG)14.1. UN number or ID number:14.2. UN proper shipping name: | III 8 C1 520 5 L E1 UN 1789 |
| 14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Classification code:Special Provisions:Limited quantity:Excepted quantity:Marine transport (IMDG)14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es): | III 8 C1 520 5 L E1 UN 1789 HYDROCHLORIC ACID |
| 14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Classification code:Special Provisions:Limited quantity:Excepted quantity:Marine transport (IMDG)14.1. UN number or ID number:14.2. UN proper shipping name: | III 8 C1 520 5 L E1 UN 1789 HYDROCHLORIC ACID 8 |
| 14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Classification code:Special Provisions:Limited quantity:Excepted quantity:Marine transport (IMDG)14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label: | III 8 C1 520 5 L E1 UN 1789 HYDROCHLORIC ACID 8 III |
| 14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Classification code:Special Provisions:Limited quantity:Excepted quantity:Marine transport (IMDG)14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group: | III 8 C1 520 5 L E1 UN 1789 HYDROCHLORIC ACID 8 III 8 |



| EBC standard color index (EBC) 6 for determination of the color strength of beer and beer | | | |
|---|---|---------------|--|
| Revision date: 21.03.2024 | wort Product code: 19281 | Page 12 of 14 | |
| Excepted quantity: | E1 | | |
| EmS: | F-A, S-B | | |
| Air transport (ICAO-TI/IATA-DGR) | | | |
| <u>14.1. UN number or ID number:</u> | UN 1789 | | |
| 14.2. UN proper shipping name: | HYDROCHLORIC ACID | | |
| 14.3. Transport hazard class(es): | 8 | | |
| 14.4. Packing group: | | | |
| Hazard label: | 8 | | |
| Special Provisions: | A3 A803 | | |
| Limited quantity Passenger: | 1L | | |
| Passenger LQ: | Y841 | | |
| Excepted quantity: | E1 | | |
| IATA-packing instructions - Passenger: | 852 | | |
| IATA-max. quantity - Passenger: IATA-packing instructions - Cargo: | 5 L 856 | | |
| IATA-packing instructions - Cargo. IATA-max. quantity - Cargo: | 60 L | | |
| | 60 L | | |
| 14.5. Environmental hazards | | | |
| ENVIRONMENTALLY HAZARDOUS: | No | | |
| SECTION 15: Regulatory information | | | |
| 15.1. Safety, health and environmental reg | ulations/legislation specific for the substance or mixture | | |
| EU regulatory information | | | |
| Authorisations (REACH, annex XIV): | | | |
| Substances of very high concern, SV | (HC (REACH, article 59): | | |
| Cobalt(II) chloride hexahydrate | | | |
| | | | |
| Restrictions on use (REACH, annex XVII |): | | |
| Entry 3, Entry 75 | | | |
| Information according to Directive | Not subject to 2012/18/EU (SEVESO III) | | |
| 2012/18/EU (SEVESO III): | | | |
| National regulatory information | | | |
| Employment restrictions: | Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age. | | |
| Water hazard class (D): | 2 - obviously hazardous to water | | |
| | ב - טלאוטעשוין וומבמועטעש נט אימוטו | | |

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,9,12.



EBC standard color index (EBC) 6 for determination of the color strength of beer and beer

wort

Page 13 of 14

Revision date: 21.03.2024

Product code: 19281

Abbreviations and acronyms Met. Corr: Substance or mixture corrosive to metals Acute Tox: Acute toxicity Skin Corr: Skin corrosion Eye Dam: Eye damage Resp. Sens: Respiratory sensitisation Skin Sens: Skin sensitisation Muta: Germ cell mutagenicity Carc: Carcinogenicity Repr: Reproductive toxicity STOT SE: Specific target organ toxicity - single exposure Aquatic Acute: Acute aquatic hazard Aquatic Chronic: Chronic aquatic hazard 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 Harmonized 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 LC50: Lethal concentration, 50% LD50: Lethal dose, 50% Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

| Classification | Classification procedure |
|-------------------------|--------------------------|
| Met. Corr. 1; H290 | On basis of test data |
| Carc. 1B; H350i | Calculation method |
| Aquatic Chronic 3; H412 | Calculation method |

Relevant H and EUH statements (number and full text)

| | atements (number and run text) |
|--------|--|
| H290 | May be corrosive to metals. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| H341 | Suspected of causing genetic defects. |
| H350i | May cause cancer by inhalation. |
| H360F | May damage fertility. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH208 | Contains dipotassium hexachloroplatinate, Cobalt(II) chloride hexahydrate. May produce an allergic reaction. |

Further Information

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.



according to Regulation (EC) No 1907/2006

EBC standard color index (EBC) 6 for determination of the color strength of beer and beer

Product code: 19281

wort

Page 14 of 14

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)