

ACCUSpec Total Inorganic Carbon Standard, 10 000 ppm

Revision: 08.12.2023

Product code: AC18.06537

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2. Hazard identification**Classification of the substance or mixture****Regulation (EC) No 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

Label elements**Regulation (EC) No 1272/2008****Hazard statements**

EUH210 Safety data sheet available on request.

Other hazards

No data available

3. Composition/information on ingredients**Mixtures****Chemical characterization**

Mixtures in aqueous solution

Relevant ingredients

| CAS No | Chemical name | Quantity | | |
|----------|---|--------------|------------------|-----------|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 497-19-8 | sodium carbonate | | | 1 - < 5 % |
| | 207-838-8 | 011-005-00-2 | 01-2119485498-19 | |
| | Eye Irrit. 2; H319 | | | |

Full text of H statements: see section 16.

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|----------|--|------------------|-----------|
| | Specific Conc. Limits, M-factors and ATE | | |
| 497-19-8 | 207-838-8 | sodium carbonate | 1 - < 5 % |
| | dermal: LD50 = > 2000 mg/kg; oral: LD50 = 2800 mg/kg | | |

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

4. First-aid measures**Description of first aid measures****General information**

No data available

After inhalation

Provide fresh air.

After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

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After ingestion

Rinse mouth immediately and drink plenty of water.
Call a doctor if you feel unwell.

Most important symptoms and effects, whether acute or delayed

No data available

Indication of immediate medical attention and special treatment needed

No data available

5. Fire-fighting measures**Extinguishing media****Suitable extinguishing media**

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

Unsuitable extinguishing media

no restriction

Specific hazards arising from the hazardous product

Non-combustible liquids

Special protective equipment and precautions for fire-fighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

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

6. Accidental release measures**Personal precautions, protective equipment and emergency procedures****General advice**

No data available

For non-emergency personnel

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

For emergency responders

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

Environmental precautions

Do not allow to enter into surface water or drains.

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). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

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.

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Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

7. Handling and storage**Precautions for safe handling****Advice on safe handling**

Handle and open container with care.

Keep container tightly closed.

Do not breathe vapour/aerosol.

Avoid contact with skin, eyes and clothes.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Wash contaminated clothing prior to re-use.

Do not breathe vapour/aerosol.

Avoid contact with skin, eyes and clothes.

Further information on handling

Wash contaminated clothing before reuse.

Wash hands before breaks and after work.

Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed.

Hints on joint storage

No data available

Further information on storage conditions

Store in a dry place.

Specific end use(s)

Laboratory chemicals

8. Exposure controls/Personal protection**Control parameters****DNEL/DMEL values**

| CAS No | Chemical name | Exposure route | Effect | Value |
|--------------------------|------------------|----------------|--------|----------------------|
| 497-19-8 | sodium carbonate | | | |
| Worker DNEL, long-term | | inhalation | local | 10 mg/m ³ |
| Consumer DNEL, long-term | | inhalation | local | 10 mg/m ³ |
| Consumer DNEL, acute | | inhalation | local | 10 mg/m ³ |

Exposure controls**Appropriate engineering controls**

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

Individual protection measures, such as personal protective equipment

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Eye/face protection

goggles

Hand protection

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) 0,11mm

Wearing time with permanent contact: >480min

By short-term hand contact

Recommended glove articles: KCL 741 Dermatril® L

Recommended material: NBR (Nitrile rubber) 0,11mm

Wearing time with occasional contact (splashes): >480min

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.

Wash hands before breaks and after work.

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

Thermal hazards

No data available

Environmental exposure controls

Do not allow to enter into surface water or drains.

9. Physical and chemical properties**Information on basic physical and chemical properties**

| | | |
|---|-------------------|-------------------|
| Physical state: | Liquid | |
| Colour: | clear | |
| Odour: | odourless | |
| Odour threshold: | No data available | |
| Melting point/freezing point: | | No data available |
| Boiling point or initial boiling point and boiling range: | | No data available |
| Flammability: | | No data available |
| Lower explosive limits: | | No data available |
| Upper explosive limits: | | No data available |
| Flash point: | | No data available |
| Auto-ignition temperature: | | No data available |
| Decomposition temperature: | | No data available |
| pH-Value: | | No data available |
| Viscosity / kinematic: | | No data available |
| Water solubility: | | No data available |

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Solubility in other solvents

No data available

Dissolution rate:

No data available

Partition coefficient n-octanol/water:

No data available

Dispersion stability:

No data available

Vapour pressure:

No data available

Vapour pressure:

No data available

Density:

No data available

Relative density:

No data available

Bulk density:

No data available

Relative vapour density:

No data available

Particle characteristics:

No data available

Other information**Information with regard to physical hazard classes**

Explosive properties

No data available

Sustained combustibility:

No data available

Self-ignition temperature

Solid:

No data available

Gas:

No data available

Oxidizing properties

No data available

Other safety characteristics

Evaporation rate:

No data available

Solvent separation test:

No data available

Solvent content:

0

Solid content:

0

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

No data available

10. Stability and reactivity**Reactivity**

There are no data available on the mixture itself.

Chemical stability

There are no data available on the mixture itself.

Possibility of hazardous reactions

There are no data available on the mixture itself.

Conditions to avoid

There are no data available on the mixture itself.

Incompatible materials

There are no data available on the mixture itself.

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Hazardous decomposition products

There are no data available on the mixture itself.

Further information

There are no data available on the mixture itself.

11. Toxicological information**Information on toxicological effects****Toxicokinetics, 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

| CAS No | Chemical name | | | | |
|----------|-------------------|-------------------|---------|---------------------|---|
| | Route of exposure | Dose | Species | Source | Method |
| 497-19-8 | sodium carbonate | | | | |
| | oral | LD50 2800 mg/kg | Rat | Study report (1978) | Groups of 5 male and 5 female rats were |
| | dermal | LD50 > 2000 mg/kg | Rabbit | Study report (1978) | other: EPA 16 CFR 1500.40 |

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitizing effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: 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.

Information on likely routes of exposure

There are no data available on the mixture itself.

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.

Information on other hazards

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Endocrine disrupting properties

There are no data available on the mixture itself.

Other information

There are no data available on the mixture itself.

Further information

There are no data available on the mixture itself.

12. Ecological information**Ecotoxicity**

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

| CAS No | Chemical name | | | | | |
|----------|--------------------------|---------------------|-----------|---------------------|--|--|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 497-19-8 | sodium carbonate | | | | | |
| | Acute fish toxicity | LC50 300 mg/l | 96 h | Lepomis macrochirus | Proc. 13th Ind. Waste Conf., Purdue Univ | Method: Recommendations of the Committee |
| | Acute crustacea toxicity | EC50 200 - 227 mg/l | 48 h | Ceriodaphnia sp. | Ecotoxicol. Environ. Saf., 44, 196-206 (| Method: method developed by NSW Environm |

Persistence and degradability

There are no data available on the mixture itself.

Bioaccumulative potential

There are no data available on the mixture itself.

Mobility in soil

There are no data available on the mixture itself.

Results of PBT and vPvB assessment

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

Endocrine disrupting properties

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

Other adverse effects

There are no data available on the mixture itself.

Further information

Do not allow to enter into surface water or drains.

13. Disposal considerations**Waste treatment methods****Disposal recommendations**Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.
Do not allow to enter into surface water or drains.**Contaminated packaging**

Waste codes/waste designations according to EWC/AVV

14. Transport information**Land transport (ADR/RID)****UN number or ID number:**

No dangerous good in sense of this transport regulation.

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| | |
|---|--|
| <u>United Nations proper shipping name:</u> | No dangerous good in sense of this transport regulation. |
| <u>Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>Packing group:</u> | No dangerous good in sense of this transport regulation. |
| Inland waterways transport (ADN) | |
| <u>UN number or ID number:</u> | No dangerous good in sense of this transport regulation. |
| <u>United Nations proper shipping name:</u> | No dangerous good in sense of this transport regulation. |
| <u>Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>Packing group:</u> | No dangerous good in sense of this transport regulation. |
| Marine transport (IMDG) | |
| <u>UN number or ID number:</u> | No dangerous good in sense of this transport regulation. |
| <u>United Nations proper shipping name:</u> | No dangerous good in sense of this transport regulation. |
| <u>Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>Packing group:</u> | No dangerous good in sense of this transport regulation. |
| Air transport (ICAO-TI/IATA-DGR) | |
| <u>UN number or ID number:</u> | No dangerous good in sense of this transport regulation. |
| <u>United Nations proper shipping name:</u> | No dangerous good in sense of this transport regulation. |
| <u>Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>Packing group:</u> | No dangerous good in sense of this transport regulation. |
| <u>Environmental hazards</u> | |
| ENVIRONMENTALLY HAZARDOUS: | No |
| <u>Special precautions for user</u> | No dangerous good in sense of this transport regulation. |
| <u>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</u> | No dangerous good in sense of this transport regulation. |

15. Regulatory information**Safety, health and environmental regulations/legislation specific for the substance or mixture****EU Regulatory information**

Restrictions on use (REACH, annex XVII):
Entry 75

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

Additional information

No data available

16. Other information**Abbreviations and acronyms**

Eye Irrit. 2: Eye irritation

Relevant H statements (number and full text)

H319 Causes serious eye irritation.
EUH210 Safety data sheet available on request.

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

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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.

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

Provide appropriate information, instructions and training to users

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