

Chris LaRocque

From: Russell Sayre <r.sayre@gotion.com>
Sent: Friday, August 23, 2024 7:47 AM
To: Chris LaRocque
Subject: Electrolyte Recycling
Attachments: electrolyte SDS.pdf

Please see electrolyte balance data sheet.

Thanks,
Cole
502-229-6489



Safety Data Sheet

Electrolyte Sample Series A11

Revision date : 2017/03/28
Version: 8.0

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1. Identification

Product identifier used on the label

Electrolyte Sample Series A11

Recommended use of the chemical and restriction on use

Recommended use*: industrial chemicals

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:

Gotion Inc
8001 East Pleasant Valley Rd
Independence, OH 44131, USA

Telephone: +1 216 867-1040

Emergency telephone number

CHEMTREC: 1-800-424-9300

Other means of identification

Chemical family: inorganic metal salts, solvent(s), additives

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR Part 1910.1200

Classification of the product

| | | |
|-------------------|-------------------|--|
| Flam. Liq. | 2 | Flammable liquids |
| Acute Tox. | 4 (oral) | Acute toxicity |
| Acute Tox. | 4 (dermal) | Acute toxicity |
| Skin Corr./Irrit. | 1B | Skin corrosion/irritation |
| Eye Dam./Irrit. | 1 | Serious eye damage/eye irritation |
| Skin Sens. | 1 | Skin sensitization |
| Muta. | 2 | Germ cell mutagenicity |
| Carc. | 1B | Carcinogenicity |
| STOT SE | 3 (irritating to) | Specific target organ toxicity — single exposure |

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| | | |
|-----------------|--------------------------|--|
| STOT RE | respiratory system) 2 | Specific target organ toxicity — repeated exposure |
| Aquatic Acute | 1 | Hazardous to the aquatic environment - acute |
| Aquatic Chronic | 1 | Hazardous to the aquatic environment - chronic |

Label elements

Pictogram:



Signal Word:
Danger

Hazard Statement:

| | |
|------|--|
| H225 | Highly flammable liquid and vapour. |
| H312 | Harmful in contact with skin. |
| H302 | Harmful if swallowed. |
| H317 | May cause an allergic skin reaction. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H335 | May cause respiratory irritation. |
| H350 | May cause cancer. |
| H341 | Suspected of causing genetic defects. |
| H314 | Causes severe skin burns and eye damage. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

Precautionary Statements (Prevention):

| | |
|------|--|
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P201 | Obtain special instructions before use. |
| P273 | Avoid release to the environment. |
| P260 | Do not breathe dust/gas/mist/vapours. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P243 | Take precautionary measures against static discharge. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P241 | Use explosion-proof electrical/ventilating/lighting/equipment. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P264 | Wash with plenty of water and soap thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P242 | Use only non-sparking tools. |
| P240 | Ground/bond container and receiving equipment. |

Precautionary Statements (Response):

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| | |
|--------------------|--|
| P310 | Immediately call a POISON CENTER or doctor/physician. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P303 + P361 + P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P303 + P361 + P352 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. |
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P301 + P330 + P331 | IF SWALLOWED: rinse mouth. Do NOT induce vomiting. |
| P391 | Collect spillage. |
| P362 + P364 | Take off contaminated clothing and wash it before reuse. |
| P370 + P378 | In case of fire: Use... to extinguish. |

Precautionary Statements (Storage):

| | |
|-------------|--|
| P403 + P235 | Store in a well-ventilated place. Keep cool. |
| P233 | Keep container tightly closed. |
| P405 | Store locked up. |

Precautionary Statements (Disposal):

| | |
|------|---|
| P501 | Dispose of contents/container to hazardous or special waste collection point. |
|------|---|

Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR Part 1910.1200

| <u>CAS Number</u> | <u>Weight %</u> | <u>Chemical name</u> |
|-------------------|------------------|--|
| 21324-40-3 | 0.0 - < 16.0% | Phosphate(1-), hexafluoro-, lithium (1:1) |
| 96-49-1 | 0.0 - 70.0% | ethylene carbonate |
| Trade Secret | 0.0 - 5.0% | Vinylene carbonate |
| Trade Secret | 0.0 - 20.0% | J4 |
| | 0.0 - 30.0% | Lithium Salts |
| 623-53-0 | 0.0 - 70.0% | Carbonic acid, ethyl methyl ester |
| 108-32-7 | 0.0 - 80.0% | Propylene carbonate |
| Trade Secret | 0.0 - 5.0% | A1 |
| 616-38-6 | 0.0 - 60.0% | dimethyl carbonate |
| 110-61-2 | 0.0 - 5.0% | Butanedinitrile |
| 105-58-8 | 0.0 - 70.0% | diethyl carbonate |
| 92-52-4 | 0.0 - 5.0% | biphenyl |
| 1678-91-7 | 0.0 - 1.0% | Cyclohexane, ethyl- |
| 429-06-1 | 0.0 - 30.0% | Ethanaminium, N,N,N-triethyl-, tetrafluoroborate(1-) (1:1) |
| 629-40-3 | 0.0 - 2.0% | suberonitrile |
| 10497-05-9 | >= 0.0 - <= 1.0% | Silanol, 1,1,1-trimethyl-, 1,1',1"-phosphate |

4. First-Aid Measures

Description of first aid measures

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General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Immediately administer a corticosteroid from a controlled/metered dose inhaler. Keep patient calm, remove to fresh air, seek medical attention.

If on skin:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

If in eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
carbon dioxide, foam

Unsuitable extinguishing media for safety reasons:
water

Additional information:

Use extinguishing measures to suit surroundings.

Special hazards arising from the substance or mixture

Hazards during fire-fighting:
carbon oxides, fluorinated compounds, phosphorus oxides
The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Protective equipment for fire-fighting:
Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

Avoid direct contact with water. Keep containers cool by spraying with water if exposed to fire. Fight fire from maximum distance. The substance/product forms flammable mixtures with air. Vapours are

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heavier than air and may accumulate in low areas and travel a considerable distance up to the source of ignition. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid all sources of ignition: heat, sparks, open flame. Do not breathe vapour/aerosol/spray mists. Avoid contact with the skin, eyes and clothing. Use personal protective clothing. Information regarding personal protective measures see, section 8.

Environmental precautions

Discharge into the environment must be avoided.

Methods and material for containment and cleaning up

For large amounts: Protect from water. Neutralize with lime.
Dike spillage. Pick up with inert absorbent material (e.g. sand, earth etc.). Correctly dispose of recovered product immediately. Use spark-proof tools and explosion-proof equipment.

7. Handling and Storage

Precautions for safe handling

Protection against fire and explosion:
Substance/product is flammable. Avoid all sources of ignition: heat, sparks, open flame.

Conditions for safe storage, including any incompatibilities

Segregate from reducing agents. Segregate from acids and bases. Segregate from oxidizing agents. Keep away from water.

Suitable materials for containers: Aluminium, Stainless steel 1.4301 (V2)
Unsuitable materials for containers: enamelled, glass

Further information on storage conditions: Containers should be stored tightly sealed in a dry place. Keep under nitrogen.

Storage stability:

Storage temperature: < 30 °C

Storage duration: 12 Months

Keep container dry because product takes up the humidity of air.

From the data on storage duration in this safety data sheet no agreed statement regarding the warranty of application properties can be deduced.

If frozen, thaw out slowly and stir well before use.

Protect from temperatures above: 40 °C

The packed product will be damaged by high temperatures.

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

| | | |
|----------|-----------|---|
| biphenyl | OSHA PEL | PEL 0.2 ppm 1 mg/m ³ ; TWA value 0.2 ppm 1 mg/m ³ ; |
| | ACGIH TLV | TWA value 0.2 ppm ; |

Adiponitrile

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| | | |
|---|-----------|---|
| | ACGIH TLV | TWA value 2 ppm ; Skin Designation ; The substance can be absorbed through the skin. |
| A1 | ACGIH TLV | ; Included in the regulation, but with no data values - See the regulation for further details ; Exposure by all routes should be carefully controlled to levels as low as possible. |
| Lithium iodide (LiI) | ACGIH TLV | TWA value 0.01 ppm Inhalable fraction and vapor ; |
| Borate(1-), tetrafluoro-, lithium (1:1) | ACGIH TLV | STEL value 6 mg/m3 Inhalable fraction ; TWA value 2 mg/m3 Inhalable fraction ; |
| Arsenate(1-), hexafluoro-, lithium (1:1) | OSHA PEL | OSHA Action level 0.005 mg/m3 ; TWA value 0.01 mg/m3 ; OSHA Action level 0.005 mg/m3 ; TWA value 0.01 mg/m3 ; TWA value 0.01 mg/m3 (arsenic (As)); |
| | ACGIH TLV | TWA value 0.01 mg/m3 (arsenic (As)); |

Personal protective equipment

Respiratory protection:

Respiratory protection in case of vapour/aerosol release. Wear appropriate certified respirator when exposure limits may be exceeded. Observe OSHA regulations for respirator use (29 CFR 1910.134).

Hand protection:

Wear chemical resistant protective gloves., Consult with glove manufacturer for testing data.

Eye protection:

Tightly fitting safety goggles (chemical goggles) and face shield.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:

Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift.

9. Physical and Chemical Properties

| | |
|------------------|----------------|
| Form: | solution |
| Odour: | ether-like |
| Odour threshold: | not determined |
| Colour: | colourless |
| pH value: | not determined |
| Melting point: | not applicable |

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| | |
|---|--|
| Boiling point: | 101.85 °C Information applies to the solvent. |
| Flash point: | 16.7 °C Information applies to the solvent. |
| Flammability: | Flammable. |
| Lower explosion limit: | For liquids not relevant for classification and labelling. The lower explosion point may be 5 - 15 °C below the flash point. |
| Upper explosion limit: | For liquids not relevant for classification and labelling. |
| Autoignition: | not determined |
| Vapour pressure: | not determined |
| Density: | 1.2 g/cm ³ (20 °C) |
| Vapour density: | not determined |
| Partitioning coefficient n-octanol/water (log Pow): | not determined |
| Self-ignition temperature: | not self-igniting |
| Thermal decomposition: | Decomposes on heating. |
| Viscosity, dynamic: | not determined |
| Solubility in water: | Reacts with water. |
| Miscibility with water: | Reacts with water. |
| Solubility (qualitative): | readily soluble solvent(s): Methanol, 2-Propanol, Acetone |
| Evaporation rate: | not determined |

10. Stability and Reactivity

Reactivity

Vapours may form explosive mixture with air.

Oxidizing properties:
not fire-propagating

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

Hazardous reactions in presence of mentioned substances to avoid. Addition of water leads to increase in temperature. On contact with water, gaseous decomposition products are formed, which cause build-up of pressure in tightly closed containers. Vapours may form ignitable mixture with air. Some plastics, rubber or coatings can be corroded.

Conditions to avoid

Avoid direct contact with water. Avoid humidity. Avoid all sources of ignition: heat, sparks, open flame. Avoid extreme temperatures. Avoid prolonged storage. Avoid contact with air.

Incompatible materials

water, alcohols, reducing agents, oxidizing agents, acids, Alkalines

Hazardous decomposition products

Decomposition products:

Possible decomposition products: carbon oxides, phosphorus oxides, fluorinated compounds, acids

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Thermal decomposition:
Decomposes on heating.

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Harmful in contact with skin. Harmful if swallowed.

Information on: Phosphate(1-), hexafluoro-, lithium (1:1)

Assessment of acute toxicity: Toxic if swallowed. The substance can be absorbed through the skin. Contact may cause burns and permanent injury.

Information on: Selectilyte Ethylene Carbonate

Assessment of acute toxicity: Virtually nontoxic after a single skin contact. The inhalation of a highly enriched/saturated vapor-air-mixture represents an unlikely acute hazard. Of moderate toxicity after single ingestion. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

Information on: Vinylene carbonate

Assessment of acute toxicity: Of moderate toxicity after single ingestion. Of pronounced toxicity after short-term skin contact.

Information on: Monofluoroethylene Carbonate (FEC)

Assessment of acute toxicity: Harmful if swallowed.

Information on: Butanoic acid, methyl ester

Assessment of acute toxicity: Of moderate toxicity after short-term skin contact.

Information on: Lithium Salts

Assessment of acute toxicity: Of moderate toxicity after single ingestion. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: A1

Assessment of acute toxicity: Of high toxicity after single ingestion. Of pronounced toxicity after short-term skin contact. Of moderate toxicity after short-term inhalation.

Information on: Butanedinitrile

Assessment of acute toxicity: Of moderate toxicity after single ingestion. Of pronounced toxicity after short-term skin contact. Of low toxicity after short-term inhalation.

Information on: suberonitrile

Assessment of acute toxicity: Of high toxicity after single ingestion. The inhalation of a highly enriched/saturated vapor-air-mixture represents an unlikely acute hazard.

Information on: 1,5,2,4-Dioxadithiane, 2,2,4,4-tetraoxide

Assessment of acute toxicity: Virtually nontoxic after a single ingestion.

Oral

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Information on: Phosphate(1-), hexafluoro-, lithium (1:1)
Type of value: LD50
Species: rat
Value: > 50 - 300 mg/kg (OECD Guideline 423)

Information on: Vinylene carbonate
Type of value: LD50
Species: rat (male/female)
Value: > 300 - < 2,000 mg/kg

Information on: Monofluoroethylene Carbonate (FEC)
Type of value: LD50
Species: rat
Value: approx. 500 mg/kg

Information on: Lithium Salts
Type of value: LD50
Value: >= 500 mg/kg
The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: A1
Type of value: LD50
Species: rat
Value: 100 - 200 mg/kg
The European Union (EU) has classified this substance as 'harmful'.

Information on: Butanedinitrile
Type of value: LD50
Species: rat
Value: approx. 450 mg/kg (OECD Guideline 423)
Literature data.

Information on: suberonitrile
Type of value: LD50
Species: rat (male/female)
Value: 242 mg/kg

Dermal

Information on: Phosphate(1-), hexafluoro-, lithium (1:1)
Information on: A1
Type of value: LD50
Species: guinea pig
Value: 700 - 1,400 mg/kg
The European Union (EU) has classified this substance as 'harmful'.

Information on: Butanedinitrile
Type of value: LD50
Species: rabbit
Value: > 700 mg/kg (similar to OECD guideline 402)

Irritation / corrosion

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Assessment of irritating effects: Corrosive! Damages skin and eyes. The break through time determined in the in-vitro membrane barrier test indicates that the test substance is expected to cause skin necrosis in vivo within 14 days after a 1-hour exposure.

Information on: Phosphate(1-), hexafluoro-, lithium (1:1)

Assessment of irritating effects: Highly corrosive! Damages skin and eyes.

Information on: Selectilyte Ethylene Carbonate

Assessment of irritating effects: Not irritating to the skin. Eye contact causes irritation.

Information on: Vinylene carbonate

Assessment of irritating effects: Skin contact causes irritation. May cause severe damage to the eyes.

Information on: Monofluoroethylene Carbonate (FEC)

Assessment of irritating effects: Eye contact causes irritation. Skin contact causes irritation.

Information on: Lithium Salts

Assessment of irritating effects: Corrosive! Damages skin and eyes.

Information on: Propylene carbonate

Assessment of irritating effects: Not irritating to the skin. Eye contact causes irritation.

Information on: A1

Assessment of irritating effects: May cause severe damage to the eyes. Skin contact causes irritation.

Information on: biphenyl

Assessment of irritating effects: Irritating to eyes and skin. Classification according to the effects on man.

Information on: 1,5,2,4-Dioxadithiane, 2,2,4,4-tetraoxide

Assessment of irritating effects: Not irritating to the skin. May cause severe damage to the eyes.

Sensitization

Information on: 1,5,2,4-Dioxadithiane, 2,2,4,4-tetraoxide

Assessment of sensitization:

Caused skin sensitization in animal studies.

Information on: Vinylene carbonate

Assessment of sensitization:

Sensitization after skin contact possible.

Aspiration Hazard

No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: After repeated exposure the prominent effect is local irritation. Repeated oral exposure may affect certain organs.

Information on: Vinylene carbonate

Assessment of repeated dose toxicity: The substance may cause damage to the liver after repeated ingestion.

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Information on: Monofluoroethylene Carbonate (FEC)

Assessment of repeated dose toxicity: Repeated oral exposure may affect certain organs.

Information on: Phosphate(1-), hexafluoro-, lithium (1:1)

Assessment of repeated dose toxicity: Repeated exposure may affect certain organs. The product has not been tested. The statement has been derived from the properties of the individual components.

Genetic toxicity

Assessment of mutagenicity: The substance was mutagenic in various test systems with microorganisms, mammalian cell culture and mammals.

Information on: A1

Assessment of mutagenicity: The substance was mutagenic in various test systems with microorganisms, mammalian cell culture and mammals.

Information on: 1,5,2,4-Dioxadithiane, 2,2,4,4-tetraoxide

Assessment of mutagenicity: The substance was mutagenic in a bacterial test system.

Carcinogenicity

Assessment of carcinogenicity: May cause cancer. Contains a known carcinogen. Contains a suspect carcinogen.

Information on: Lithium Salts

Information on: A1

Assessment of carcinogenicity: The substance caused cancer in animal studies. IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans).

Teratogenicity

Assessment of teratogenicity: May cause developmental effects.

Information on: Selectilyte Ethylene Carbonate

Assessment of teratogenicity: The substance did not cause malformations in animal studies; however, toxicity to development was observed at high doses which impaired body weight gain in parental animals.

Other Information

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components. The product has been assessed on the basis of the components' available data. To some extent data gaps exist for individual components. According to our present knowledge and experience dangers which are not covered by the current labeling are not to be expected.

Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

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12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. Based on long-term (chronic) toxicity study data, the product is very likely not harmful to aquatic organisms.

Toxicity to fish

Information on: Monofluoroethylene Carbonate (FEC)
LC50 (96 h) > 6 mg/l, *Brachydanio rerio*

Information on: biphenyl

LC50 (96 h) 3 mg/l, *Pimephales promelas* (OECD Guideline 203, Flow through.)

The statement of the toxic effect relates to the analytically determined concentration. The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.

LC50 (96 h) 4.6 mg/l, *Cyprinodon variegatus* (Fish test acute, static)

The details of the toxic effect relate to the nominal concentration. The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.

Information on: Cyclohexane, ethyl-

LC50 (96 h) 0.75 mg/l, *Oryzias latipes* (OECD 203; ISO 7346; 84/449/EEC, C.1)

Aquatic invertebrates

Information on: Monofluoroethylene Carbonate (FEC)
LC50 (48 h) 8.4 mg/l, *Daphnia magna*

Information on: biphenyl

LC50 (48 h) 0.36 mg/l, *Daphnia magna* (*Daphnia* test acute, Flow through.)

The statement of the toxic effect relates to the analytically determined concentration. The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.

Information on: Cyclohexane, ethyl-

EC50 (48 h) 0.67 mg/l, *Daphnia magna* (OECD Guideline 202, part 1)

Information on: Ethanaminium, N,N,N-triethyl-, tetrafluoroborate(1-) (1:1)

LC50 (48 h) 4,765.75 mg/l, *Daphnia magna* (*Daphnia* test acute, static)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

EC50 (48 h) 3 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Aquatic plants

Information on: Monofluoroethylene Carbonate (FEC)
EC50 (72 h) 6.3 mg/l, *Selenastrum capricornutum*

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Information on: Propylene carbonate

EC50 (72 h) > 900 mg/l (growth rate), Desmodemus subspicatus (OECD Guideline 201, static)

The statement of the toxic effect relates to the analytically determined concentration.

Information on: biphenyl

EC50 (96 h) 1.772 mg/l (growth rate), Pseudokirchneriella subcapitata (calculated, static)

The product has not been tested. The statement has been derived from the structure of the product.

No observed effect concentration (96 h) 0.66 mg/l (growth rate), algae (calculated, static)

The product has not been tested. The statement has been derived from the structure of the product.

Information on: Cyclohexane, ethyl-

EC50 (72 h) 0.63 mg/l (growth rate), algae (OECD Guideline 201)

No observed effect concentration (72 h) 0.22 mg/l (growth rate), algae (OECD Guideline 201)

Information on: Ethanaminium, N,N,N-triethyl-, tetrafluoroborate(1-) (1:1)

EC50 (96 h) 95 mg/l, Scenedesmus sp. (static)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

EC50 (72 h) 96 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Persistence and degradability

Assessment biodegradation and elimination (H₂O)

Not applicable for inorganic substances.

Bioaccumulative potential

Assessment bioaccumulation potential

Significant accumulation in organisms is not to be expected.

Mobility in soil

Assessment transport between environmental compartments

Adsorption to solid soil phase is possible.

Additional information

Other ecotoxicological advice:

The product has not been tested. The statement has been derived from the properties of the individual components. The product has been assessed on the basis of the components' available data. To some extent data gaps exist for individual components. According to our present knowledge and experience dangers which are not covered by the current labeling are not to be expected.

13. Disposal considerations

Waste disposal of substance:

Observe national and local legal requirements. Disposal requirements are dependent on the hazard classification and will vary by location and the type of disposal selected. All waste materials should be reviewed to determine the applicable hazards (testing may be necessary).

Container disposal:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product. Contact manufacturer regarding recycling.

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14. Transport Information

Land transport

USDOT

Hazard class: 3
Packing group: II
ID number: UN 2924
Hazard label: 3, 8
Proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (contains CARBONIC ACID ETHYL METHYLESTER, DIMETHYL CARBONATE, LITHIUMHEXAFLUOROPHOSPHATE)

Sea transport

IMDG

Hazard class: 3
Packing group: II
ID number: UN 2924
Hazard label: 3, 8, EHSM
Marine pollutant: YES
Proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (contains CARBONIC ACID ETHYL METHYLESTER, DIMETHYL CARBONATE, LITHIUMHEXAFLUOROPHOSPHATE)

Air transport

IATA/ICAO

Hazard class: 3
Packing group: II
ID number: UN 2924
Hazard label: 3, 8
Proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (contains CARBONIC ACID ETHYL METHYLESTER, DIMETHYL CARBONATE, LITHIUMHEXAFLUOROPHOSPHATE)

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US blocked / not listed

used for R&D purposes

EPCRA 311/312 (Hazard categories): Acute; Chronic; Fire; Sudden release of pressure

CERCLA RQ

100 LBS

CAS Number

92-52-4; 1678-91-7; 105-58-8; 616-38-6

Chemical name

biphenyl; Cyclohexane, ethyl-; diethyl carbonate; dimethyl carbonate

10 LBS

7782-50-5; Trade Secret

chlorine; A1

Safety Data Sheet

Electrolyte Sample Series

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(SDS GEN_US/EN)

1 LBS

29935-35-1

Arsenate(1-), hexafluoro-, lithium (1:1)

CA Prop. 65:

WARNING: THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

NFPA Hazard codes:

Health : 3 Fire: 3 Reactivity: -W- Special:

HMIS III rating

Health: 3 Flammability: 3 Physical hazard: 0 (Water Reactive)

16. Other Information

SDS Prepared by:

Gotion Product Regulations

SDS Prepared on: 2017/03/28

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