

Safety Data Sheet

Bardac 2170P

Version: 04.01.2005 / EN

1. Identification of the substance/preparation and of the company/undertaking

Trade name : Bardac 2170P

Street address : Lonza Ltd
Muenchensteinerstrasse 38
CH-4002 Basel, Switzerland
Telephone: +41 61 316 81 11

Emergency telephone number : Lonza Ltd, CH-4002 Basel, Switzerland
Telephone: +41 61 313 94 94 (24h)

2. Composition/information on ingredients

Components / EC Label	Concentration
N-Decyl-N-isononyl-N,N-dimethylammonium chloride (CAS-No.: 138698-36-9) C, N; R22, R34, R50	70 - 72 % (*)
Propane-1,2-diol (CAS-No.: 57-55-6) (EEC-No.: 200-338-0)	10 - 12 %
Water (CAS-No.: 7732-18-5) (EEC-No.: 231-791-2)	11 - 20 %

R-phrase(s) see chapter 16

(*) Components with workplace control parameters see chapter 8

3. Hazards identification

Classification

Harmful if swallowed.
Causes burns.
Very toxic to aquatic organisms.

4. First aid measures

Inhalation : Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. Give oxygen. First aider needs to protect himself. Call a physician immediately.

Skin contact : Take off all contaminated clothing immediately. After contact with skin, wash immediately with plenty of soap and water. Call a physician immediately.

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- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.
- Ingestion : Call a physician immediately. Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

5. Fire-fighting measures

- Suitable extinguishing media : dry powder, water spray, foam
- Specific hazards during fire fighting : Heating or fire can release toxic gas.
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.
- Additional advice : Use water spray to cool unopened containers.

6. Accidental release measures

- Personal precautions : Use respirator when performing operations involving potential exposure to vapour of the product.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.
- Methods for cleaning up : Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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7. Handling and storage

Handling

- Safe handling advice: : Avoid contact with skin and eyes. Provide sufficient air exchange and/or exhaust in work rooms.
- Advice on protection against fire and explosion : Take precautionary measures against static discharges.

Storage

- Requirements for storage areas and containers : Keep container tightly closed. To maintain product quality, do not store in heat or direct sunlight. Keep in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Components with workplace control parameters

N-Decyl-N-isononyl-N,N-dimethylammonium chloride (CAS-No.: 138698-36-9)

Remarks : no data available

Personal protective equipment

- Hygiene measures : Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use.
- Respiratory protection : Use respirator when performing operations involving potential exposure to vapour of the product.
- Hand protection : rubber or plastic gloves
- Eye protection : Wear eye/face protection.
- Skin and body protection : Wear suitable protective clothing, gloves and eye/face protection.

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9. Physical and chemical properties

Appearance

State of aggregation : liquid
Colour : colorless-yellow
Odour : mild

Safety data

pH : 6,5 - 9 (100 g/l ; 20 °C)
Melting point/range : no data available
Boiling point/range : no data available
Flash point : > 93 °C
Upper explosion limit : not applicable
Lower explosion limit : not applicable
Vapour pressure : no data available
Density : 0,93 g/cm³ (25 °C)
Water solubility : completely soluble
Viscosity, dynamic : no data available
Relative vapour density : no data available
Evaporation rate (Volatility) : no data available

10. Stability and reactivity

Conditions to avoid: : no data available
Materials to avoid : reducing agents, strong oxidizing agents
Hazardous reactions : Stable under normal conditions.

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11. Toxicological information

Acute oral toxicity (LD50)	:	320 mg/kg Species: rat Method: OECD Test Guideline 401
Skin irritation	:	corrosive Species: rabbit Exposure time: 4 h Method: OECD Test Guideline 404
Genotoxicity in vitro	:	negative Ames test, Escherichia coli Method: OECD 471 negative Ames test, Salmonella typhimurium Method: OECD 471

12. Ecological information

The following ecotoxicological data refer to:

N-Decyl-N-isononyl-N,N-dimethylammonium chloride (CAS-No.: 138698-36-9)

Ecotoxicity effects

Toxicity to fish (LC50)	:	1,8 mg/l Species: Rainbow trout Acute toxicity Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to fish (LC50)	:	0,85 mg/l Species: Bluegill sunfish Acute toxicity Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia (EC50)	:	0,11 mg/l Species: Daphnia magna Immobilization Exposure time: 48 h Method: OECD Test Guideline 202

Persistence and degradability

Biodegradability	:	Modified SCAS Test: 66,3 % Testing period: 30 d Method: OECD 302 A
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13. Disposal considerations

- Waste from residues : The organic ingredients can be incinerated in a suitable installation when in accordance with local regulations.
- Contaminated packaging : Where possible recycling is preferred to disposal or incineration.

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14. Transport information

ADR : Class: 8
Packaging group: II
Classification Code: CT1
Labels: Corrosive substance No. 8
Toxic substance No. 6.1
Risk No. : 86
UN/ID No. : UN 2922
Proper shipping name : CORROSIVE LIQUID, TOXIC, N.O.S.
(N-Decyl-N-isononyl-N,N-dimethylammonium chloride)

RID : Class: 8
Packaging group: II
Classification Code: CT1
Labels: Corrosive substance No. 8
Toxic substance No. 6.1
Risk No. : 86
UN/ID No. : UN 2922
Proper shipping name : CORROSIVE LIQUID, TOXIC, N.O.S.
(N-Decyl-N-isononyl-N,N-dimethylammonium chloride)

IATA Cargo : Class: 8
Packaging group: II
Labels: Corrosive substance No. 8
Toxic substance No. 6.1
Packing instruction (cargo aircraft): 812
UN/ID No. : UN 2922
Proper shipping name : Corrosive liquid, toxic, n.o.s.
(N-Decyl-N-isononyl-N,N-dimethylammonium chloride)

IATA Passenger : Class: 8
Packaging group: II
Labels: Corrosive substance No. 8
Toxic substance No. 6.1
Packing instruction (passenger and cargo aircraft): 808
UN/ID No. : UN 2922
Proper shipping name : Corrosive liquid, toxic, n.o.s.
(N-Decyl-N-isononyl-N,N-dimethylammonium chloride)

IMDG-Code : Class: 8
Packaging group: II
Labels: Corrosive substance No. 8
Toxic substance No. 6.1
EmS: F-A , S-B

UN/ID No. : UN 2922
Marine pollutant: yes

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Proper shipping name : CORROSIVE LIQUID, TOXIC, N.O.S.
(N-Decyl-N-isononyl-N,N-dimethylammonium chloride)

15. Regulatory information

Additional advice : Classification and labelling according to Directive 1999/45/EC.

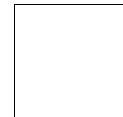
Symbol(s) :



Corrosive



Dangerous for the environment



R-phrase(s)

R22: Harmful if swallowed.
R34: Causes burns.
R50: Very toxic to aquatic organisms.

S-phrase(s)

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28: After contact with skin, wash immediately with plenty of soap and water.
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S61: Avoid release to the environment. Refer to special instructions/safety data sheets.

National legislation

Water contaminating class : WGK 2: water endangering
(Germany)

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16. Other information

R-phrases(s)

R22	:	Harmful if swallowed.
R34	:	Causes burns.
R50	:	Very toxic to aquatic organisms.

Changes since the last version will be highlighted in the margin. This version replaces all previous versions.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.