

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Geogard Ultra

Version	2.1 / EN
Revision Date	11.10.2010
Print Date	12.10.2010

1. Identification of the substance/mixture and of the company/undertaking**Product information**

Trade name	: Geogard Ultra
Company	: 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)
E-mail address Responsible/issuing person	: prodinfo@lonza.com

2. Hazards identification**Classification of the substance or mixture****Labelling according to EC Directives**

67/548/EEC / 1999/45/EC

According to present data no classification and labelling is required according to Directives 67/548/EEC or 1999/45/EC.

Additional advice

General advice : Handle in accordance with good industrial hygiene and safety practice.

3. Composition/information on ingredients

Substances / Mixtures : Mixture

Hazardous components

CAS-No.	EC-No. / Registration number	Classification	Concentration
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D-Glucono-1,5-lactone

90-80-2	202-016-5	—	ca. 75 %
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Sodium benzoate

532-32-1

208-534-8

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ca. 25 %

4. First aid measures

- Inhalation : No special precautions required.
- Skin contact : After contact with skin, wash immediately with plenty of soap and water. If skin irritation persists, call a physician.
- Eye contact : Immediately flush eye(s) with plenty of water. If eye irritation persists, consult a specialist.
- Ingestion : If swallowed, do not induce vomiting - seek medical advice. Immediately give large quantities of water to drink. Never give anything by mouth to an unconscious person.
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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.
- Further information : Use water spray to cool unopened containers.
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6. Accidental release measures

- Personal precautions : Use personal protective equipment.
- Environmental precautions : Prevent product from entering drains.
- Methods for cleaning up : Sweep up or vacuum up spillage and collect in suitable container for disposal.

7. Handling and storage**Handling**

- Advice on safe handling : No special precautions required.
- Advice on protection against fire and explosion : Avoid dust formation. 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**Personal protective equipment**

- Respiratory protection : No personal respiratory protective equipment normally required.
- Hand protection : Suitable material : Nitrile rubber
Break through time : > 480 min
Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
- Eye protection : Safety glasses with side-shields
- Skin and body protection : No special protective equipment required.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

- General advice : Prevent product from entering drains.

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

- Physical state : solid
- Form : powder
- Colour : white
- Odour : odourless

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Safety data

pH	:	no data available
Melting point/range	:	no data available
Flash point	:	> 93 °C
Lower explosion limit	:	no data available
Upper explosion limit	:	no data available
Vapour pressure	:	no data available
Density	:	no data available
Water solubility	:	soluble
Ignition temperature	:	no data available

10. Stability and reactivity

Conditions to avoid	:	no data available
Materials to avoid	:	Strong oxidizing agents
Hazardous decomposition products	:	nitrogen oxides (NOx), Carbon oxides
Hazardous reactions	:	Stable under normal conditions.

11. Toxicological information**The following toxicological data refer to:****D-Glucono-1,5-lactone** (CAS-No.: 90-80-2)

Acute oral toxicity (LD50)	:	> 2 000 mg/kg Species: rat Method: OECD Test Guideline 401
Genotoxicity in vitro	:	negative Ames test, Salmonella typhimurium Literary reference negative Chromosome aberration test in vitro, CH-lung cells Literary reference

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Sodium benzoate (CAS-No.: 532-32-1)

Acute oral toxicity (LD50)	:	3 140 mg/kg Species: rat Literary reference
Skin irritation	:	non irritant Species: rabbit Literary reference
Eye irritation	:	mild irritant Species: rabbit Literary reference
Genotoxicity in vitro	:	negative Ames test, Salmonella typhimurium Literary reference

12. Ecological information

The following ecotoxicological data refer to:

D-Glucono-1,5-lactone (CAS-No.: 90-80-2)**Ecotoxicity effects**

Toxicity to fish (LC50)	:	360 mg/l Species: Leuciscus idus (Golden orfe) Acute toxicity Exposure time: 48 h Method: DIN 38412 Part 15
Toxicity to daphnia (EC50)	:	305 mg/l Species: Daphnia magna (Water flea) Immobilization Exposure time: 24 h Method: OECD Test Guideline 202
Toxicity to algae (ErC50)	:	> 500 mg/l Species: Scenedesmus capricornutum (fresh water algae) Exposure time: 72 h Method: DIN 38412
Toxicity to bacteria (EC0)	:	> 500 mg/l Species: Pseudomonas putida Growth inhibition Exposure time: 16 h Method: DIN 38412 Part 8

Persistence and degradability

Biodegradability	:	Closed Bottle test: 71 % Readily biodegradable. Testing period: 5 Days Method: OECD 301 D
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Zahn-Wellens Test: 98 %
biodegradable
Testing period: 2 Days
Method: OECD 302 B

Sodium benzoate (CAS-No.: 532-32-1)**Ecotoxicity effects**

Toxicity to fish (LC50) : > 100 mg/l
Species: Pimephales promelas (fathead minnow)
Acute toxicity
Exposure time: 96 h
Literary reference

Toxicity to daphnia (EC50) : > 100 mg/l
Species: Daphnia magna (Water flea)
Immobilization
Exposure time: 96 h
Literary reference

Persistence and degradability

Biodegradability : Modified MITI Test (I): 84 %
Readily biodegradable.
Testing period: 10 d
Method: OECD 301 C
Literary reference

Bioaccumulative potential

Bioaccumulation : Does not bioaccumulate. Literary reference

13. Disposal considerations

Waste from residues / unused products : Dispose of in accordance with local regulations.
Contact waste disposal services.

14. Transport information

IATA Not dangerous goods

IMDG Not dangerous goods

ADR Not dangerous goods

RID Not dangerous goods

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DOT Not dangerous goods

TDG Not dangerous goods

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical Safety Assessment

not required

16. Other information

Changes since the last version are 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.

