



# SAFETY DATA SHEET

according to US Regulation 29 CFR 1910.1200 and the Canadian HPA

## Geogard Ultra®

Version 1.6

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### SECTION 1. IDENTIFICATION

Product name : Geogard Ultra®

#### Manufacturer or supplier's details

Company : Soap and More  
3830 - 7 St SE  
Calgary Alberta T2G 2Y8

Telephone : 1-403-217-2346  
E-mail address : soapandmoreab@gmail.com

Emergency telephone number : For incidents only (spill, leak, fire, exposure, or accident), call CHEMTREC at  
1-800-424-9300 (inside North America) [CCN 864796]  
1-703-741-5970 (outside North America) [CCN 864796]

#### Recommended use of the chemical and restrictions on use

Recommended use : Conservation agent (preservative) for cosmetics

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Combustible dust : Category 1

Eye irritation : Category 2A

#### GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : May form combustible dust concentrations in air.  
H319 Causes serious eye irritation.

Precautionary statements :

**Prevention:**  
Avoid dust formation.  
P264 Wash skin thoroughly after handling.  
P280 Wear eye protection/ face protection.  
**Response:**  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P337 + P313 If eye irritation persists: Get medical advice/ attention.

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Hazardous components

| Chemical name / Synonyms | CAS-No.  | Concentration (% w/w) |
|--------------------------|----------|-----------------------|
| Sodium benzoate          | 532-32-1 | >= 20 - < 25          |

## SECTION 4. FIRST AID MEASURES

- If inhaled : Move to fresh air.  
Consult a physician after significant exposure.  
If unconscious, place in recovery position and seek medical advice.  
If breathing is irregular or stopped, administer artificial respiration.  
Keep respiratory tract clear.
- In case of skin contact : After contact with skin, wash immediately with plenty of soap and water.  
If on clothes, remove clothes.  
In the case of skin irritation or allergic reactions see a physician.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : No information available.
- Notes to physician : Treat symptomatically.

## SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Dry chemical
- Specific hazards during firefighting : Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

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- Heating or fire can release toxic gas.
- Further information : Use water spray to cool unopened containers.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment. Avoid dust formation.
- Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.
- Methods and materials for containment and cleaning up : Pick up and arrange disposal without creating dust. Non-sparking tools should be used. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

### SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed. Take precautionary measures against static discharges.
- Advice on safe handling : Avoid formation of respirable particles. Do not breathe vapours/dust. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed. Keep in a well-ventilated place. Electrical installations / working materials must comply with the technological safety standards. To maintain product quality, do not store in heat or direct sunlight.
- Further information on storage stability : Keep in a dry place.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION



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### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment.  
Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).  
Use only appropriately classified electrical equipment and powered industrial trucks.

### Personal protective equipment

**Respiratory protection** : In the case of dust or aerosol formation use respirator with an approved filter.  
Half mask with a particle filter P2 (EN 143)

**Hand protection**

Material : Nitrile rubber

Remarks : Wear protective gloves. Break through time : > 480 min

**Eye protection** : Safety glasses with side-shields conforming to EN166  
Wear face-shield and protective suit for abnormal processing problems.

**Skin and body protection** : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures** : Avoid contact with skin, eyes and clothing.  
When using do not eat or drink.  
When using do not smoke.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Colour : white

Odour : mild

Odour Threshold : no data available

pH : no data available

Melting point/range : no data available

Boiling point/boiling range : Not applicable

Flash point : Not applicable

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|  |   |                                       |
|--|---|---------------------------------------|
| Evaporation rate                       | : | Not applicable                        |
| Flammability (solid, gas)              | : | no data available                     |
| Flammability (liquids)                 | : | no data available                     |
| Upper explosion limit                  | : | no data available                     |
| Lower explosion limit                  | : | no data available                     |
| Vapour pressure                        | : | Not applicable                        |
| Relative vapour density                | : | Not applicable                        |
| Relative density                       | : | no data available                     |
| Water solubility                       | : | soluble                               |
| Partition coefficient: n-octanol/water | : | no data available                     |
| Auto-ignition temperature              | : | not determined                        |
| Decomposition temperature              | : | no data available                     |
| Viscosity, dynamic                     | : | no data available                     |
| Viscosity, kinematic                   | : | Not applicable                        |
| Explosive properties                   | : | No hazards to be specially mentioned. |
| Oxidizing properties                   | : | no data available                     |
| Minimum ignition energy                | : | > 1,000 mJ                            |

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### SECTION 10. STABILITY AND REACTIVITY

|                                    |   |   |
|------------------------------------|---|---|
| Reactivity                         | : | No decomposition if stored and applied as directed.                                   |
| Chemical stability                 | : | Stable under recommended storage conditions.  |
| Possibility of hazardous reactions | : | Stable under recommended storage conditions.<br>No hazards to be specially mentioned. |
| Conditions to avoid                | : | Heat  |
| Incompatible materials             | : | Strong acids and strong bases<br>Oxidizing agents                                     |
| Hazardous decomposition products   | : | No decomposition if used as directed.   |

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### SECTION 11. TOXICOLOGICAL INFORMATION

|  |   |                                 |
|--|---|---------------------------------|
| Information on likely routes of exposure | : | Inhalation<br>Ingestion<br>Eyes |
|--|---|---------------------------------|

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Skin

### Acute toxicity

Acute oral toxicity : Acute toxicity estimate: 2,712 mg/kg  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: 2,526 mg/kg  
Method: Calculation method

### Skin corrosion/irritation

Exposure time: 15 min  
Method: EPISKIN Human Skin Model Test  
Result: No skin irritation

Species: human skin  
Method: occlusive patch test, 48h  
Result: No skin irritation  
Remarks: Protocol follows COLIPA recommendation (1996).

### Serious eye damage/eye irritation

Remarks: no data available

### Respiratory or skin sensitisation

Remarks: no data available

### Germ cell mutagenicity

Genotoxicity in vitro : Remarks: no data available

### Carcinogenicity

Result: no data available

### Reproductive toxicity

Effects on fertility : Remarks: no data available

### STOT - single exposure

Remarks: no data available

### STOT - repeated exposure

Remarks: no data available

### Aspiration toxicity

No aspiration toxicity classification

### Further information

Remarks: no data available

**The following toxicological data refer to:**

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

### Acute toxicity

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 401  
Test substance: Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Test substance: Information given is based on data obtained from similar substances.

### Skin corrosion/irritation

Species: Rabbit  
Exposure time: 72 h  
Method: OECD Test Guideline 404  
Result: No skin irritation  
GLP: yes  
Test substance: Information given is based on data obtained from similar substances.

### Serious eye damage/eye irritation

Species: Rabbit  
Result: No eye irritation  
Exposure time: 72 h  
Method: OECD Test Guideline 405  
Test substance: Information given is based on data obtained from similar substances.

### Respiratory or skin sensitisation

Species: Mouse  
Method: OECD Test Guideline 429  
Result: not sensitizing  
Remarks: Information given is based on data obtained from similar substances.

### Germ cell mutagenicity

Genotoxicity in vitro : Test Type: Ames test  
Species: Salmonella typhimurium  
Metabolic activation: yes  
Result: negative

: Test Type: Chromosome aberration test in vitro  
Species: Chinese hamster lung cells  
Metabolic activation: no  
Result: negative

### Reproductive toxicity

Effects on foetal development : Species: Mouse  
Application Route: Oral  
Duration of Single Treatment: 20 d  
General Toxicity Maternal: NOAEL: 695 mg/kg body weight  
Method: OECD Test Guideline 414

### Repeated dose toxicity

Species: Rat

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LOAEL: 250 mg/kg  
 Application Route: Oral  
 Method: OECD Test Guideline 408

### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

Toxicity to fish : Remarks: no data available

#### Persistence and degradability

Biodegradability : Result: no data available

#### Bioaccumulative potential

Bioaccumulation : Remarks: no data available  
 Remarks: no data available  
 Remarks: no data available  
 Remarks: no data available

#### Components:

##### Sodium benzoate:

Partition coefficient: n-octanol/water : log Pow: 1.88

#### Mobility in soil

Distribution among environmental compartments : Remarks: no data available

#### Other adverse effects

Additional ecological information : no data available

#### The following ecotoxicological data refer to:

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

#### Ecotoxicity

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 360 mg/l  
 Exposure time: 48 h  
 Method: DIN 38412 Part 15

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 305 mg/l  
 Exposure time: 24 h  
 Test Type: Immobilization  
 Method: OECD Test Guideline 202

Toxicity to algae : ErC50 (Scenedesmus capricornutum (fresh water algae)): > 500 mg/l  
 End point: Growth rate  
 Exposure time: 72 h



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Method: DIN 38412

- Toxicity to microorganisms : EC0 (*Pseudomonas putida*): > 500 mg/l  
 Exposure time: 16 h  
 Test Type: Growth inhibition  
 Method: DIN 38412 Part 8
- : NOEC (activated sludge): 100 mg/l  
 Exposure time: 3 h  
 Test Type: Respiration inhibition  
 Method: OECD Test Guideline 209

### Persistence and degradability

- Biodegradability : Test Type: Closed Bottle test  
 Result: Readily biodegradable.  
 Biodegradation: 71 %  
 Exposure time: 5 Days  
 Method: OECD Test Guideline 301D
- Test Type: Zahn-Wellens Test  
 Result: Biodegradable  
 Biodegradation: 98 %  
 Exposure time: 2 Days  
 Method: OECD Test Guideline 302B  
 Test substance: see user defined free text
- Test Type: Closed Bottle test  
 Result: Readily biodegradable.  
 Biodegradation: 89 %  
 Exposure time: 28 d  
 Test substance: Information given is based on data obtained from similar substances.

### Bioaccumulative potential

- Bioaccumulation : Bioconcentration factor (BCF): 3  
 Remarks: Literary reference  
 Does not bioaccumulate.

### Mobility in soil

no data available

### Other adverse effects

no data available

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

- Waste from residues : Dispose of contents/container in accordance with local regulation.  
 Contact waste disposal services.  
 Do not dispose of waste into sewer.
- Contaminated packaging : Dispose of as unused product.  
 Do not re-use empty containers.

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### SECTION 14. TRANSPORT INFORMATION

|   |   |                     |
|---|---|---------------------|
| <b>DOT</b>  | : | Not dangerous goods |
| <b>UN number</b>  | : | Not applicable      |
| <b>Proper shipping name</b>   | : | Not applicable      |
| <b>Transport hazard class</b>   | : | Not applicable      |
| <b>Packing group</b>  | : | Not applicable      |
| <b>TDG</b>  | : | Not dangerous goods |
| <b>UN number</b>  | : | Not applicable      |
| <b>Proper shipping name</b>   | : | Not applicable      |
| <b>Transport hazard class</b>   | : | Not applicable      |
| <b>Packing group</b>  | : | Not applicable      |
| <b>IATA</b>   | : | Not dangerous goods |
| <b>UN number</b>  | : | Not applicable      |
| <b>Proper shipping name</b>   | : | Not applicable      |
| <b>Transport hazard class</b>   | : | Not applicable      |
| <b>Packing group</b>  | : | Not applicable      |
| <b>IMDG</b>   | : | Not dangerous goods |
| <b>UN number</b>  | : | Not applicable      |
| <b>Proper shipping name</b>   | : | Not applicable      |
| <b>Transport hazard class</b>   | : | Not applicable      |
| <b>Packing group</b>  | : | Not applicable      |
| <b>ADR</b>  | : | Not dangerous goods |
| <b>UN number</b>  | : | Not applicable      |
| <b>Proper shipping name</b>   | : | Not applicable      |
| <b>Transport hazard class</b>   | : | Not applicable      |
| <b>Packing group</b>  | : | Not applicable      |
| <b>RID</b>  | : | Not dangerous goods |
| <b>UN number</b>  | : | Not applicable      |
| <b>Proper shipping name</b>   | : | Not applicable      |
| <b>Transport hazard class</b>   | : | Not applicable      |
| <b>Packing group</b>  | : | Not applicable      |
| <b>Special precautions for user</b>   | : | none                |
| <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | : | Not applicable      |

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### SECTION 15. REGULATORY INFORMATION

#### EPCRA - Emergency Planning and Community Right-to-Know Act

##### SARA 311/312 Hazards

See above: SECTION 2. Hazard Identification-GHS Classification

##### SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### US State Regulations

##### Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

##### Pennsylvania Right To Know

| Components            | CAS-No.  |
|-----------------------|----------|
| Calcium gluconate     | 299-28-5 |
| Sodium benzoate       | 532-32-1 |
| D-Glucono-1,5-lactone | 90-80-2  |

##### New Jersey Right To Know

| Components            | CAS-No.  |
|-----------------------|----------|
| Calcium gluconate     | 299-28-5 |
| Sodium benzoate       | 532-32-1 |
| D-Glucono-1,5-lactone | 90-80-2  |

#### The components of this product are reported in the following inventories:

TSCA : All components of this product are listed on the EPA TSCA 8(b) inventory list.

### SECTION 16. OTHER INFORMATION

#### Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation

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Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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Date format : yyyy/mm/dd

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