

Gluconolactone SB


Safety Data Sheet according to Federal Register / Vol. 77, No. 58 /
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1 PRODUCT & COMPANY IDENTIFICATION

Product Name:	Gluconolactone SB	Distributor:	MakingCosmetics Inc.
Synonyms:	No data available	Address:	10800 231 st Way NE Redmond, WA 98053 (USA)
INCI Name:	Gluconolactone, Sodium Benzoate, Calcium Gluconate	Phone / Fax:	425-292-9502 / 425-292-9601
CAS Number:	90-80-2, 532-32-1, 299-28-5	Web:	www.makingcosmetics.com
Formula:	No data available	Emergency Telephone Number:	1-800-424-9300 (Chemtrec)
Product Form:	Solid (Powder)		
Product Use:	Cosmetic use		

2 HAZARDS IDENTIFICATION

GHS Classification:	Combustible Dust: Category 1 Eye irritation: Category 2A												
Signal Word:	WARNING!												
GHS Hazard Pictograms:													
GHS Hazard Statements:	May form combustible dust concentrations in air. H319: Causes serious eye irritation.												
GHS Precautionary Statements:	(Prevention) Avoid dust formation. P264: Wash skin thoroughly after handling. P280: Wear eye protection/face protectin. (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. P337 + P313: If eye irritation persists; get medical advice/attention.												
Potential Health Hazards:	Eyes: Causes serious eye irritation. Inhalation: May be an irritant. Skin: May be an irritant. Ingestion: May cause nausea, vomiting, and diarrhea.												
NFPA Ratings (704):	<table border="1"> <tr> <td>Health</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>Flammability</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>Reactivity</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>Specific Hazard</td> <td>N/A</td> <td></td> </tr> </table>	Health	N/A	N/A	Flammability	N/A	N/A	Reactivity	N/A	N/A	Specific Hazard	N/A	
Health	N/A	N/A											
Flammability	N/A	N/A											
Reactivity	N/A	N/A											
Specific Hazard	N/A												

3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>Molecular Weight</u>
Gluconolactone	90-80-2	70 - 80%	Not Available
Sodium Benzoate	532-32-1	22 - 28%	Not Available
Calcium Gluconate	299-28-5	1 - 2%	Not Available

4 FIRST AID MEASURES

Eyes:	Rinse immediately with plenty of lukewarm water, also under the eyelids, for at least 15 minutes. Call a physician immediately. Remove contact lenses. Keep eye wide open while rinsing. Protect unharmed eye.
Inhalation:	Move to fresh air. Consult a physician after significant exposure. If unconscious, place in recover position and seek medical attention. If breathing is irregular or stopped, administer artificial respiration. Keep respiratory tract clear.
Skin:	After contact with skin, wash immediately with plenty of soap and water. If product is on clothes, remove

Ingestion: clothes. In the case of skin irritation or allergic reaction, seek medical attention.
Do Not Induce Vomiting. Never give anything by mouth to an unconscious person. Clean mouth with water and drink afterwards plenty of water. If symptoms persist, call a physician.

5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media: May be combustible at high temperatures. Use appropriate media (water spray, alcohol-resistant foam, dry chemical) for surrounding environment and adjacent fire. No unsuitable extinguish media listed.

Special protective equipment & precautions for firefighters: Wear self-contained breathing apparatus and full protective clothing, including eye protection and boots. Use water spray to cool unopened containers.

Flash Points: Not applicable.

Specific hazards arising from the chemical: 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. Heating or fire can release toxic gases. Hazardous combustion products include Carbon Oxides (Cox) and calcium oxide. See also Stability and reactivity section.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures: Avoid dust formation. Do not try to clean up the leak without proper protective equipment. See section 8 for recommendations on the use of personal protective equipment.

Environmental precautions: Avoid liquid release into sewers/public water/environment. Notify environmental authorities in case of leak. Prevent further leak if safe to do so.

Methods and material 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). Dispose of absorbed material in accordance with the regulations.

7 HANDLING & STORAGE

Precautions for safe handling: Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed. Take precautionary measures against static discharges. Avoid formation of respirable particles. Do not breath vapors/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. Use good personal hygiene practice. See section 8 for recommendations on the use of personal protective equipment.

Conditions for safe storage, incl. any incompatibilities: Keep container tightly closed. Keep in a dry, 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. Store away from incompatible materials (see section 10 for incompatibilities).

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
Gluconolactone SB	Not available		

TWA: Time Weighted Average over 8 hours of work.
TLV: Threshold Limit Value over 8 hours of work.
REL: Recommended Exposure Limit
PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.
IDLH: Immediately Dangerous to Life or Health
WEEL: Workplace Environmental Exposure Levels
CEIL: Ceiling

Personal Protection:

Eyes: Wear safety glasses with side-shields conforming to EN166. Wear face-shield and protective suit for abnormal processing problems.

Inhalation: In the case of dust or aerosol formation, use respiratory with an approved filter. Half mask with a particle filter P2 (EN 143).

Body: Wear nitrile rubber protective gloves with a break through time >480 min. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Other: Use good personal hygiene practices. It is recommended that all dust control equipment such as local exhaust ventilation and material transport system 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 powdered industrial trucks. Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Powder	Vapor Pressure:	No data available
Odor:	Mild	Vapor Density:	No data available
Odor Threshold:	No data available	Evaporation Rate:	No data available
Color:	White	Flammability:	No data available
Molecular Weight:	No data available	Upper/lower Explosive Limit:	Not applicable
pH:	No data available	Flash Point:	Not applicable
Boiling Point:	Not applicable	Specific Gravity:	No data available
Melting/Freezing Point:	No data available	Water Solubility:	Soluble
Relative Density:	No data available	Auto-Ignition Temperature:	No data available
Partition Coefficient: n-octanol/water:	Log Pow: 188 (Sodium benzoate)	Decomposition Temperature:	No data available
Viscosity, Kinematic:	Not applicable	Explosive Properties:	No data available
Oxidizing Properties:	No data available	Minimum Ignition Energy:	>1,000 mJ

10 STABILITY AND REACTIVITY

Reactivity:	No decomposition if stored and applied as directed.
Chemical Stability:	Stable under recommended storage conditions.
Hazardous Polymerization:	No data available.
Conditions to Avoid:	Heat.
Incompatible Materials:	Strong acids and strong bases and oxidizing agents.
Hazardous Decomposition Products:	No decomposition if used as directed.
Possible Hazardous Reactions:	Stable under recommended storage conditions. No hazards to be specifically mentioned.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	No data available.
Skin:	Acute toxicity estimate: 2,526 mg/kg; Method: Calculation method.
Component	
Gluconolactone:	(Rat, Dermal) LD50: >2,000 mg/kg; Method; OECD Test Guideline 402.
Eyes:	
Component	
Gluconolactone:	(Rabbit) Result: No eye irritation; Exposure time: 72 hours; Method: OECD Test Guideline 405.
Inhalation:	No data available.
Ingestion:	Acute toxicity estimate: 2,712 mg/kg; Method: Calculation method.
Component	
Gluconolactone:	(Rat, Oral) LD50: >2,000 mg/kg; Method; OECD Test Guideline 401.
Carcinogenicity:	No data available.
Teratogenicity:	No data available.
Germ Cell Mutagenicity:	(Salmonella typhimurium) Test: Ames Test; Metabolic activation: yes; Result: negative.
Embryotoxicity:	No data available.
Specific Target Organ Toxicity:	(Rat) LOAEL: 250 mg/kg; Application Route: Oral; Method: OECD Test Guideline 408.
Reproductive Toxicity:	(Mouse) Method: OECD Test Guideline 414; Application route: Oral; Duration of Single Treatment: 20 days; General toxicity maternal: NOAEL: 695 mg/kg body weight.
Sensitization:	No data available.
Aspiration Toxicity:	No aspiration toxicity classification.
Skin Corrosion/Irritation:	Method: EPISKIN Human Skin Model Test; Exposure time: 15 min; Result: No skin irritation. (Human Skin) Method: Occlusive patch test; 48 hours; Result: No skin irritation; Remarks: Protocol follows COLIP recommendation (1996).

Respiratory/Skin Sensitization: (Rabbit) Method: OECD Test Guideline 404; Exposure time: 72 hours; Result: No skin irritation; GLP: yes.
Test Substance Information: (Mouse) Method: OECD Test Guideline 429; Result: Not sensitizing.
 Information given is based on data obtained from similar substances.

12 ECOLOGICAL INFORMATION

Ecotoxicity: No data available.
Aquatic Vertebrate: (Golden Orfe) Component: Gluconolactone; LC50: 360 mg/l; Exposure time: 48 hours; Method: DIN 38412 Part 15.
Aquatic Invertebrate: (Water flea) Component: Gluconolactone; EC50: 305 mg/l; Exposure time: 24 hours; Test Type: Immobilization; Method: OECD Test Guideline 202.
Aquatic Algae: (Fresh water algae) Component: Gluconolactone; ErC50: 500 mg/l; End point: Growth rate; Exposure time: 72 hours; Method: DIN 38412.
Terrestrial: (Pseudomonas putida) Component: Gluconolactone; EC0: > 500 mg/l; Exposure time: 16 hours; Test type: Growth inhibition; Method: DIN 38412 Part 8.
 (Activated Sludge) Component: Gluconolactone; NOEC: 100 mg/l; Exposure time: 3 hours; Test type: Respiration Inhibition; Method: OECD Test Guideline 209.
Persistence and Degradability: Biodegradable. Information given is based on data obtained from similar substances.
Bioaccumulative Potential: Bioconcentration factor (BCF): 3; Remarks: Literary reference; Does not bioaccumulate.
Mobility in Soil: No data available.
PBT and vPvB Assessment: No data available.
Other Adverse Effects: No data available.

13 DISPOSAL CONSIDERATIONS

Waste Residues: Do not dispose of waste into sewer. Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies, if necessary, before disposing of waste product.
Product Containers: Dispose of as unused product. Do not re-use empty containers. Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies, if necessary, before disposing of waste product container.

The information in section 13 is for the product as shipped. Use and/or alterations to the product may change the characteristics of the material and alter the waste classification and proper disposal methods

14 TRANSPORT INFORMATION

DOT (Dept. of Transportation, USA): Not dangerous goods.
TDG (Transportation of Dangerous Goods, Canada): Not dangerous goods.
IMDG (International Maritime Dangerous Goods): Not dangerous goods.
IATA (International Air Transport Association): Not dangerous goods.
ICAO (International Civil Aviation Organization): No data available.
ADR/RID (Road and Rail Transportation): Not dangerous goods.

15 REGULATORY INFORMATION

TSCA Inventory Status: All components of this product are listed on the EPA TSCA 8(b) inventory list.
SARA 311/312 Hazards: See 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.
MA Right to Know: No components are subject.
PA Right to Know: Gluconolactone, CAS: 90-80-2; Sodium Benzoate, CAS: 532-32-1; Calcium Gluconate, CAS: 299-28-5
NJ Right to Know: Gluconolactone, CAS: 90-80-2; Sodium Benzoate, CAS: 532-32-1; Calcium Gluconate, CAS: 299-28-5
Canada (NPRI): No components listed on Canadian National Pollutant Release Inventory.
EU (EINECS): No data available.
China (IECSC): No data available.
Australia (AICS): No data available.
Japan (ENCS): No data available.

Philippines (PICCS):	No data available.
Korea (KECI):	No data available.
New Zealand (NZIoC):	No data available.

16 OTHER INFORMATION

Additional Abbreviations:	DIN: Standard of the German Institute for Standardization. ECx: Concentration associated with x% response. ELx: Loading rate associated with x% response. ErCx: Concentration associated with x% growth rate response. LC50: Lethal Concentration to 50% of a test population. LD50: Lethal dose to 50% of test population. OECD: Organization for Economic Co-operation and Development. SARA: Superfund Amendments and Reauthorization Act.
Revision Date:	24-Dec-2024
Compliance:	This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200
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