

SAFETY DATA SHEET GLUCONO DELTA LATTONE SG G - E575

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Product name: GLUCONO DELTA LATTONE SG G - E575

Synonyms: Glucono-Delta-Lactone Chemical name: REACH Registration No.: CAS-No.: EC No.:

D-Glucono-1,5-lactone 01-2119451153-49-0001 90-80-2 202-016-5

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Identified uses:	Uses advised against:
Food.; Chemical Additive; Formulation and Packaging.; Fabrics,	No data available.
textiles and apparel.; Paper treatment.	

1.3 Details of the supplier of the safety data sheet:

Supplier:

ROQUETTE FRERES 1 Rue de la Haute Loge 62136 LESTREM - France **Telephone:** +33 3 21 63 36 00 **Fax:** +33 3 21 63 38 50 **e-mail:** sds@roquette.com

1.4 Emergency telephone number: ORFILA (INRS) : + 33 (0)1 45 42 59 59

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

The product has not been classified as dangerous according to the legislation in force : CLP Regulation (EC) No 1272/2008.

- 2.2 Label elements: Not applicable
- **2.3 Other hazards:** Dust may form an explosive mixture in the atmosphere.

SECTION 3: Composition/information on ingredients

3.1 Substance:

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.
D-Glucono-1,5-lactone	>=99%	90-80-2	202-016-5	01-2119451153-49-0001

SECTION 4: First aid measures

4.1 Description of first aid measured	ures:
Inhalation:	Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.
Eye contact:	Flush thoroughly with water. If irritation occurs, get medical assistance.
Skin contact:	Wash with soap and water. Contact physician if irritation continues.
Ingestion:	Drink plenty of water. Do not induce vomiting. Get medical attention if symptoms occur.



4.2 Most important symptoms None known. and effects, both acute and delayed:

4.3 Indication of any immediate medical attention and special treatment needed:

Treatment:

Treat symptomatically.

SECTION 5: Firefighting measures

5.1	Extinguishing media:	
	Suitable extingishing media:	Water spray.
	Unsuitable extinguishing media:	Dry chemicals or foams.
5.2	Special hazards arising from the substance or mixture:	Fire or excessive heat may produce hazardous decomposition products. Dust may form an explosive mixture in the atmosphere. See Section 10.
5.3	Advice for firefighters:	
	Special Fire Fighting Procedures:	Prevent dust cloud.
	Special protective equipment for fire-fighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
SEC	CTION 6: Accidental relea	ase measures
	CTION 6: Accidental relea Personal precautions, protective equipment and emergency procedures:	ase measures See Section 8 of the SDS for Personal Protective Equipment.
6.1	Personal precautions, protective equipment and	
6.1 6.2	Personal precautions, protective equipment and emergency procedures: Environmental	See Section 8 of the SDS for Personal Protective Equipment.
6.1 6.2 6.3	Personal precautions, protective equipment and emergency procedures: Environmental precautions: Methods and material for containment and cleaning	See Section 8 of the SDS for Personal Protective Equipment. Not regarded as dangerous for the environment. Remove material, as much as possible, using mechanical equipment. Prevent dust cloud. Collect and dispose of spillage as indicated in section 13 of the
6.1 6.2 6.3 6.4	Personal precautions, protective equipment and emergency procedures: Environmental precautions: Methods and material for containment and cleaning up: Reference to other	See Section 8 of the SDS for Personal Protective Equipment. Not regarded as dangerous for the environment. Remove material, as much as possible, using mechanical equipment. Prevent dust cloud. Collect and dispose of spillage as indicated in section 13 of the SDS. For waste disposal, see section 13 of the SDS.

- 7.2 Conditions for safe Store in a cool, dry place out of direct sunlight. storage, including any incompatibilities:
- **7.3 Specific end use(s):** Formulation and Packaging.; Fabrics, textiles and apparel.; Paper treatment.; Chemical Additive; Feedstock



SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

Occupational exposure limits:

France. Code du travail, Article R 4222-10, non specific total dusts : AEL <=10 mg/m³ respirable dust fractions : STEL <= 5 mg/m³

DNEL-Values:

Exposure		Value	Specific effects	Remarks
Long-term : Inhalation	Workers	59 mg/m3	Systemic Toxicity	
Long-term : Dermal	Workers	11,9 mg/kg	Systemic Toxicity	
Long-term : Inhalation	General Population	14,6 mg/m3	Systemic Toxicity	
Long-term : Oral	General Population	5,9 mg/kg	Systemic Toxicity	
Long-term : Dermal	General Population	5,9 mg/kg	Systemic Toxicity	

PNEC-Values:

Compartment	Value	Method
Freshwater	0,1 mg/l	Assessment Factor
Seawater	0,01 mg/l	Assessment Factor
Intermittent release	1 mg/l	Assessment Factor
Sewage Treatment Plant	6,498 mg/l	Assessment Factor
Freshwater Sediment	0,36 mg/kg	Partition Coefficient
Saltwater Sediment	0,36 mg/kg	Partition Coefficient
Soil	0,0135 mg/kg	Partition Coefficient

8.2 Exposure controls:

Appropiate engineering controls:	Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of dust.
Individual protection measures, s	such as personal protective equipment:
Eye/face protection:	Wear dust-resistant safety goggles where there is danger of eye contact.
Skin protection:	
Hand protection:	Gloves are recommended for prolonged use.
Other:	Wear suitable protective clothing.
Respiratory Protection:	In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P1).
Hygiene measures:	Handle the product in accordance with the good hygiene practices and safety instructions.
Environmental exposure controls:	Not regarded as dangerous for the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical State:	Solid
Form:	powder
Color:	White
Odor:	Odorless
pH:	~ 3 at 1 %
Melting Point:	~ 153 °C



Applicable
Applicable
Applicable
Applicable
5
0 g/l at 20 °C
(Calculated)

9.2 Other information:

SECTION 10: Stability and reactivity	
10.1 Reactivity:	Oxidizing agents.
10.2 Chemical stability:	Material is stable under normal conditions.
10.3 Possibility of hazardous reactions:	No hazardous reactions under ordinary conditions of use and storage
10.4 Conditions to avoid:	Prevent dust cloud. Dust clouds may be explosive under certain conditions.
10.5 Incompatible materials:	Strong oxidizing substances.
10.6 Hazardous decomposition products:	Carbon Dioxide. Carbon Monoxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

Acute Toxicity :

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Test / Substance	Species	Type / Result	Exposure	Remarks
OECD 401	Rat	LD50 - Oral > 2.000 mg/kg Non toxic.	14 h	- ECHA Database -
				Data from similar product.
OECD 402	Rat	LD50 - Dermal > 2.000 mg/kg Non	24 h	- ECHA Database -
		toxic.		Data from similar product.

Skin irritation. :

Test / Substance	Species	Result	Exposure	Remarks
OECD 404	Rabbit	Non Irritating	72 h	- ECHA Database -
Data from similar				
product.				

Serious eye irritation :

Test / Substance	Species	Result	Exposure	Remarks
OECD 405 Data from similar product.	Rabbit	Non Irritating	72 h	- ECHA Database -

Sensitization :

Test / Substance	Туре	Species	Result	Remarks
OECD 429 Data from similar product.	In vivo	Mouse	Non-Sensitising	- ECHA Database -

Repeated dose toxicity :

Test / Substance	Species	Result	Exposure	Remarks
OECD 408	Rat	No treatment related effects.	90 day(s)	 ECHA Database - Data from similar product.

No data available.



Carcinogenicity:

No data available.

Reproductive toxicity :

Test / Substance	Species	Route of Exposure / Exposure	Result	Remarks
OECD 414	Mouse	Oral 20 day(s)	No treatment related effects. NOAEL : 695 mg/kg	- ECHA Database -

SECTION 12: Ecological information

12.1 Toxicity:

Acute toxicity:

Test / Substance	Species	Type/Result	Exposure	Remarks
OECD 203	Fish	LC50 : 360 mg/l Non toxic.	96 h	- ECHA Database -
OECD 202	Daphnia magna	LC50 : 305 mg/l Non toxic.	24 h	- ECHA Database -
OECD 201	Desmodesmus subspicatus	EC50 : > 100 mg/l Non toxic.	72 h	- ECHA Database -
OECD 209	Activated Sludge.	EC50 : 649,8 mg/l Non toxic.	3 h	- ECHA Database -

12.2 Persistence and degradability:

Test / Substance	Result	Remarks
EU.C4-E	89 % / 28 d	- ECHA Database -
	The product is easily biodegradable.	Data from similar product.

12.3 Bioaccumulative potential:

Test / Substance Log Pow (n-Octanol/Water		Bioconcentration factor (BCF) /	Remarks			
		Partition Coefficient)	Bioaccumulation			
		-2,38	~ 3	Will not bio-accumulate.		
	Calculated			- Literature Reference -		

12.4 Mobility in soil:

Test / Substance	Medium	Organic Carbon Partition Coefficient (Koc)	Remarks
Calculated	Soil	~ 10	This material is readily biodegraded and is not likely to bioconcentrate. - Literature Reference -

12.5 Results of PBT and vPvB assessment:

12.6 Other adverse effects:	None known.
SECTION 13: Disposal consideratio	ns

13.1 Waste treatment methods:

Product:

Dispose of waste in an appropriate authorised treatment facility in accordance with regulations in force and product characteristics at time of disposal.

Packaging material:

Single use packaging. Collect for salvage or disposal.

Not Available

SECTION 14: Transport information

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.5 Environmental hazards:

Not regulated.



14.6 Special precautions for user:

No special precautions.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

SECTION 15: Regulatory information

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

This Safety Data Sheet complies with regulation (EU) No 453/2010 amending annex II of regulation (EC) No 1907/2006 (REACH).

15.2 Chemical safety assessment:

Not Available

SECTION 16: Other information			
Revision Information:	Not relevant.		
Key literature references and sources for data:	ECHA registered substances database. ToxNet Database.		
Disclaimer:	The information provided in this Safety Date Sheet (SDS) relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. It is the responsibility of the user to be aware of and to follow the regulations applying to our product for its possession, handling and use. The information given is designed only as a guidance and is not to be considered a warranty or quality specification. All information and instructions provided in this SDS are based on the current state of our knowledge at the latest revision date indicated.		