

SAFETY DATA SHEET

Creation Date 17-Nov-2010

Revision Date 25-Dec-2021

Revision Number 4

1. Identification				
Product Name	delta-Gluconolactone			
Cat No. :	AC271050000; AC271050010; AC271050050; AC271050051; AC271052500			
CAS No Synonyms	90-80-2 No information available			
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use.			
Details of the supplier of the	safety data sheet			
Company				

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

2. Hazard(s) identification

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements None required

Hazards not otherwise classified (HNOC) None identified

3. Composition/Information on Ingredients					
Component		CAS N	o	Weight %	
.deltaGluconolactone		90-80-	2	>95	
	4.	First-aid meas	sures		
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.				
Skin Contact		nediately with plenty of f symptoms occur.	water for at leas	st 15 minutes. Get medical attention	
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.				
Ingestion	Do NOT indu	ce vomiting. Get medie	cal attention.		
Most important symptoms and effects	No informatio	on available.			
Notes to Physician	Treat symptomatically				
5. Fire-fighting measures					
Suitable Extinguishing Media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.					
Unsuitable Extinguishing Media	No informatio	on available			
Flash Point	No informatio	n available			
Method -	No information available				
Autoignition Temperature Explosion Limits	Not applicable				
Upper	No data avail	able			
Lower	No data avail				
Sensitivity to Mechanical Impact					
Sensitivity to Static Discharge	No informatio	on available			
Specific Hazards Arising from the C Thermal decomposition can lead to rel		ng gases and vapors.			
Hazardous Combustion Products Carbon monoxide (CO). Carbon dioxid		htors			

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health 0	Flammability 1	Instability 1	Physical hazards N/A		
	6. Accidental re	lease measures			
Personal Precautions	Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.				
Environmental Precautions	Should not be released internation.	o the environment. See Section	12 for additional Ecological		

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Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

	7. Handling and storage		
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Do not breathe dust. Avoid contact with skin and eyes. Do not ingest. If swallowed then seek immediate medical assistance.		
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep under nitrogen. Incompatible Materials. Strong oxidizing agents. Strong bases.		
8. E	Exposure controls / personal protection		
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.		
Engineering Measures	None under normal use conditions.		
Personal Protective Equipment			
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.		
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.		
Respiratory Protection	No protective equipment is needed under normal use conditions.		
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.		
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	IT y SICUI	and	Chichhodh	

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Physical State	Powder Solid
Appearance	Off-white
Odor	No information available
Odor Threshold	No information available
pH	approx 2.6 1% aq.sol
Melting Point/Range	151 - 155 °C / 303.8 - 311 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	0.600
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	160 °C
Viscosity	Not applicable
Molecular Formula	C6 H10 O6
Molecular Weight	178.14
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10. Stability and reactivity

None known, based on information available		
Moisture sensitive. Light sensitive.		
Avoid dust formation. Incompatible products. Excess heat. Exposure to light. Exposure to moist air or water.		
Strong oxidizing agents, Strong bases		
s Carbon monoxide (CO), Carbon dioxide (CO ₂)		
Hazardous polymerization does not occur.		
None under normal processing.		

11. Toxicological information

Acute Toxicity

Product Information

Component		LD50 Oral		LD50 Dermal	LC50	LC50 Inhalation	
.deltaGluconolactone L		D50 = 7930 mg/kg (Rat)		Not listed	No	t listed	
oxicologically Syne	rgistic	No information ava	ailable		I		
roducts							
elayed and immedia	ate effects as w	ell as chronic effe	cts from short ar	ia long-term expo	<u>osure</u>		
ritation		No information ava	ailable				
ensitization		No information ava	ailable				
arcinogenicity		The table below in	dicates whether e	ach agency has lis	ted any ingredient	as a carcinoge	
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico	
deltaGluconolactone	90-80-2	Not listed	Not listed	Not listed	Not listed	Not listed	
lutagenic Effects		No information available					
Reproductive Effects		No information available.					
evelopmental Effec	ts	No information available.					
eratogenicity	No information available.						
TOT - single expos	Jre	None known					
TOT - repeated exp		None known					
spiration hazard		No information available					
ymptoms / effects, elayed	both acute and	d No information available					
ndocrine Disruptor	Information	No information available					
-	dverse Effects The toxicological properties have not been fully investigated.						
ther Adverse Effect	S	I he toxicological p	properties have no	t been fully investig	yaleu.		

Ecotoxicity Do not empty into drains. Waste Disposal Methods

Persistence and Degradability	Persistence is unlikely
Bioaccumulation/ Accumulation	No information available.
Mobility	Will likely be mobile in the environment due to its water solubility.

Component	log Pow
.deltaGluconolactone	-1.98

13. Disposal considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information				
DOT	Not regulated			
DOT 	Not regulated			
IATA	Not regulated			
IMDG/IMO	Not regulated			
15. Regulatory information				

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
.deltaGluconolactone	90-80-2	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
.deltaGluconolactone	90-80-2	Х	-	202-016-5	Х	Х	Х	Х	Х	KE-17682

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable

California Proposition 65	This product does not contain any Proposition 65 chemicals			
U.S. State Right-to-Know Regulations	Not applicable			
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N			
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.			
Other International Regulations				
Mexico - Grade	No information available			
Authorisation/Restrictions according to EU REACH				

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
.deltaGluconolactone	90-80-2	Listed	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
.deltaGluconolactone	90-80-2	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	17-Nov-2010 25-Dec-2021 25-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

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

End of SDS