

SAFETY DATA SHEET SODIUM GLUCONATE CRYSTALLINE F

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

1.1 Product identifier:

Product name: SODIUM GLUCONATE CRYSTALLINE F - E576

Synonyms: Sodium gluconate fine grade.

UFI Number: Not applicable. **Chemical name:** Sodium gluconate **DUIN Number:** Exempted (Annex IV).

CAS-No.: 527-07-1 EC No.: 208-407-7

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

Identified uses:	Uses advised against:
Chemical Additive, Surfactant, Industrial.	No data available.

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:

NPIS (24/24): 844 892 0111

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: May form explosible dust-air mixture if dispersed in the air

Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria

Not fulfilling vPvB (very persistent/very bioaccummulative) criteria

SECTION 3: Composition/information on ingredients

3.1 Substance:

Chemical name	Concentration	CAS-No.	EC No.	DUIN Number :
Sodium gluconate	>=99 - <=100%	527-07-1	208-407-7	Exempted (Annex IV).

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SECTION 4: First aid measures

4.1 Description of first aid measures:

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.

Ingestion: Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and

delayed:

May cause irritation to the respiratory system.

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

Treatment: Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing

media:

Water spray.

Unsuitable extinguishing

media:

Dry chemicals or foams. Straight Streams of Water

5.2 Special hazards arising from the substance or

mixture:

Fire or excessive heat may produce hazardous decomposition products. See Section 10. Combustible dusts: may form an explosible mixture in the air.

5.3 Advice for firefighters:

Special Fire Fighting

Procedures:

Prevent dust cloud. Do not use water jet as an extinguisher, as this will spread

the fire.

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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

See Section 8 of the SDS for Personal Protective Equipment.

6.2 Environmental precautions:

Not regarded as dangerous for the environment.

6.3 Methods and material for containment and cleaning up:

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.

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6.4 Reference to other

For waste disposal, see section 13 of the SDS.

sections:

SECTION 7: Handling and storage

7.1 Precautions for safe

See Section 8 of the SDS for Personal Protective Equipment.

handling:

7.2 Conditions for safe

storage, including any incompatibilities:

Store in a cool, dry place out of direct sunlight.

7.3 Specific end use(s):

Chemical Additive, Surfactant, Industrial.,

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

Occupational exposure limits:

This product does not contain any components >1% with specific occupational exposure limits.

Chemical name	Туре	Exposure Limit Values	Source
Dust - Inhalable dust.	TWA	10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (2018)
Dust - Respirable dust.	TWA	4 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (2018)

8.2 Exposure controls:

Appropriate engineering

Provide adequate ventilation. Observe Occupational Exposure Limits and

controls: minimize the risk of inhalation of dust.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Wear dust-proof safety goggles where there is a risk of eyes contact. (EN

166)

Skin protection:

Hand Protection: No specific precautions.

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). (EN 143)

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

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Offering the best of nature

No data available.

Form: Powder
Water, moisture: <1 %
Color: Pale yellow
Odor: Odorless

Melting Point: Melting Point:~ 207 °CBoiling Point:Not ApplicableFlash Point:Not Applicable

Decomposition Temperature:

No data available.

~ 7.2 at 10 % w/w in water

Flammability (solid, gas): NC: Not Classified Solubility in Water: ~ 590 g/l at 25 °C

Partition coefficient (n-octanol/water): -5.99 - Literature Reference -

Vapor pressure: Not Applicable

Relative density: ~ 0.85
Vapor density (air=1): Not Applicable

9.2 Other information:

Odor Threshold:

9.2.1 Information with regard to physical hazard classes:

No data available.

9.2.2 Other safety characteristics:

Formation of explosible dust/air mixtures: - INERIS -

MIT (Minimum ignition temperature): MITc (cloud) : ~ 400 °C (EN 50281-2-1 / ASTM E1491)

TDA (Differential Thermal Analysis),∆t : ~ 215 °C

MIE (Minimum Ignition Energy): 1,200 mJ (EN 13821 / ASTM E2019, Without Inductance)

Very insensitive to the risk of inflammation by an electrostatic discharge.

(dP/dt)max (Maximum Rate of explosion

Pressure rise):

~ 180 bar/s (EN 14034-2 / ASTM E1226)

Pmax (Maximum Explosion OverPressure)

±10%:

~ 6.7 bar (EN 14034-1 / ASTM E1226)

Kst value (±20%): ~ 48 barm/s (EN 14034-2 / ASTM E1226)

Dust Explosion Class: st 1 (VDI 3673)

Volume resistivity: >10° Ω.m (IEC 61241-2-2 / Group IIIB non-conductive dust.)

 Moisture:
 ~ 1.2 % (ISO 589)

 Mv (Median value):
 ~ 138 μm (ISO 13320)

Other Data: MEC (Minimum Explosible Concentration): 30-60 g/m3 (EN 14034-3 / ASTM

E1515)

 Oxidizing properties
 NC: Not Classified

 Evaporation Rate:
 Not Applicable

The data reported in this section does not take the place of specifications.

SECTION 10: Stability and reactivity

10.1 Reactivity: Oxidizing agents.

10.2 Chemical stability: Material is stable under normal conditions.

10.3 Possibility of hazardousNo hazardous reactions under ordinary conditions of use

reactions: and storage.

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10.4 Conditions to avoid: Prevent dust cloud. Dust clouds may be explosive under certain

conditions. Avoid dust close to ignition sources.

10.5 Incompatible materials: Strong oxidizing substances.

10.6 Hazardous decomposition products: Carbon Dioxide. Carbon Monoxide.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation EC 1272/2008:

Acute toxicity:

Test / Substance	Species	Type / Result	Exposure	Remarks
OECD 401 Sodium gluconate	Rat	LD50 - Oral : >2000 mg/kg Not classified	14 h	- Literature Reference -
OECD 402 Similar substance	Rat	LD50 - Dermal : >2000 mg/kg Not classified	24 h	- Literature Reference -

Skin irritation.:

Test / Substance	Species	Result	Exposure	Remarks
OECD 404 Similar substance	Rabbit	Not Irritating	72 h	- Literature Reference -

Serious eye irritation:

Test / Substance	Species	Result	Exposure	Remarks
OECD 405 Similar substance	Rabbit	Not Irritating	72 h	- Literature Reference -

Sensitization:

Test / Substance	Туре	Species	Result	Remarks
OECD 429	In vivo	Mouse	Non Consitioina	- Literature Reference -
Similar substance	In vivo	Mouse	Non-Sensitising	- Literature Reference -

Repeated dose toxicity:

Test / Substance	Species	Result	Exposure	Remarks
OECD 408 Similar substance	Rat	No treatment related effects.	90 day(s)	- Literature Reference -

Mutagenesis: No data available.

Carcinogenicity: No data available.

Reproductive toxicity:

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

11.2 Information on other hazards:No data available.

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SECTION 12: Ecological information

12.1 Toxicity:

Acute toxicity:

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Test / Substance	Species	Type/Result	Exposure	Remarks
OECD 203 Sodium gluconate	Oryzias latipes	LC50 : > 100 mg/l Non toxic.	96 h	- Literature Reference -
OECD 202 Sodium gluconate	Daphnia magna	LC50 : >1000 mg/l Non toxic.	48 h	- Literature Reference -
OECD 201 Sodium gluconate	Desmodesmus subspicatus	EC0 : <= 100 mg/l	72 h	- Literature Reference -
OECD 209 Similar substance	Activated Sludge.	EC50 : 649.8 mg/l Non toxic.	3 h	- Literature Reference -

Chronic Toxicity: No data available.

12.2 Persistence and degradability:

Test / Substance	Result	Remarks
EU.C4-E	89 % / 28 d	- Literature Reference -
Sodium gluconate	The product is readily biodegradable.	- Literature Reference -

12.3 Bioaccumulative potential:

Test / Substance	Log Pow (n-Octanol/Water Partition Coefficient)	Bioconcentration Factor (BCF) / Bioaccumulation	Remarks
Similar substance	-5.99	~ 3 Potential to bioaccumulate is low.	- Literature Reference -

12.4 Mobility in soil:

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

12.5 Results of PBT and vPvB assessment: Exempted

12.6 Endocrine disrupting properties: No data available.

12.7 Other adverse effects: None known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

Product: Dispose of waste in an appropriate authorized treatment facility in

accordance with regulations in force and product characteristics at time of

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disposal.

Packaging material: Single use packaging. Collect for salvage or disposal.

SECTION 14: Transport information

14.1 UN number: Not applicable. 14.2 UN proper shipping name: Not applicable.

14.3 Transport hazard class(es): Not applicable.

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14.4 Packing group: Not applicable.

14.5 Environmental hazards: Not regulated.

14.6 Special precautions for user:No special precautions.

14.7 Maritime transport in bulk according to IMO instruments: Not applicable.

SECTION 15: Regulatory information

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

EU.REACH Article 59, candidate List of Substances of Very High Concern (SVHC).

Not listed

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use

Not Applicable

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended

Not Applicable

Turkey. KKDIK Regulation (Turkey REACH)

Exempted ANNEX IV

REGULATION (EU) 2017/542 (CLP Annex VIII) :harmonised information relating to emergency health response and preventative

measures

UFI Number: Not Applicable

REGULATION (EU) 2019/1148 on the marketing and use of explosives precursors.

Not Applicable

International Inventories:

Australia. Inventory of Chemical Substances (AICS): Listed. Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL).: Listed. China. Inventory of Existing Chemical Substances (IECSC): Listed. EU. European Inventory of Existing Commercial Chemical Substances (EINECS): Listed. Japan. Inventory of Existing & New Chemical Substances (ENCS): Listed. Japan. Industrial Safety & Health Law (ISHL): Listed. Korea. Existing Chemicals Inventory (KECI): Listed. Mexico. National Inventory of Chemical Substances (INSQ): Listed. New Zealand. Inventory of Chemicals (NZIoC): Listed. Philippines. Inventory of Chemicals and Chemical Substances (PICCS): Listed. Taiwan. Existing Chemicals Inventory (TCSI): Listed. Thailand. Existing Chemicals Inventory from FDA (TECI): Listed. US. Toxic Substances Control Act (TSCA): Listed. Vietnam. National Chemical Inventory: Listed.

This Safety Data Sheet conforms to SCHEDULE 3 / Part 1 / annex II of regulation (GB)2019 n°758.

15.2 Chemical safety assessment: Exempted

SECTION 16: Other information

Revision Information: 10/22/2021

Key literature references and

sources for data:

ToxNet Database. INERIS Database.

Other information: Updated version of this document is available at :https://www.roquette.com/site-

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Abbreviations and acronyms used in the SDS.:

LD50: lethal dose 50%

LC50 : lethal concentration 50%
EC50 : The effective concentration of substance that causes 50% of the maximum response.

CAS: Chemical Abstracts Service (division of the American Chemical Society)

CLP: Classification, Labelling and Packaging (Reg. EC 1272/2008). OECD: Organisation for Economic Cooperation and Development

PBT: Persistent, Bioaccumulative and Toxic

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals.

vPvB: very persistent and very bioaccumulative substance.

Disclaimer:

The information provided in this Safety Data 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.

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