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## MATERIAL SAFETY DATA SHEET

### 01. CHEMICAL PRODUCT

01.1 Chemical product name..... : SODIUM GLUCONATE CRYSTALLINE G

### 02. COMPOSITION/INFORMATION ON INGREDIENTS:

02.1 Substance..... : yes  
02.2 Common chemical name..... : sodium gluconate  
02.3 CAS number..... : 527-07-1  
02.4 N<sup>o</sup> EINECS..... : 208-407-7  
02.5 Ingredients contributing to the hazard..... : not applicable

### 03. HAZARDS IDENTIFICATION:

03.1 Most important hazards..... : potential for formation of explosive air / dust cloud  
03.2 Specific hazards..... : explosion hazards, see ! 3.1  
03.3 Other information..... : not classified under CHIP regulation

### 04. FIRST-AID MEASURES:

04.1 Inhalation..... : remove to fresh air ; if symptoms develop, seek medical advice  
04.2 Eye contact..... : rinse with plenty of water, seek medical attention  
04.3 Skin contact..... : wash with water and soap  
04.4 Ingestion..... : seek medical attention according to symptoms

### 05. FIRE-FIGHTING MEASURES:

05.1 Extinguishing media..... : water spray  
05.2 Non-suitable extinguishing media.. : CO<sub>2</sub> : inactive  
Powder : hazards of dust cloud formation

### 06. ACCIDENTAL RELEASE MEASURES:

06.1 Personal precautions..... : follow recommendations for protection ! 8  
06.2 Environmental precautions..... : generally no or weak hazard for water (biodegradable product)  
06.3 Methods for cleaning up..... : collect mechanically, vacuum up, if necessary wash with water, to eliminate residues , see ! 13

### 07. HANDLING AND STORAGE:

07.1 Handling  
Technical measures..... : follow recommendations for personal protection ! 8  
Premises where dust can be generated must be identified per areas and equipped according to the ATEX directive.  
(\*)  
Precautions..... : avoid dust formation or dispersion in the air

Safe handling advice..... : follow general recommendations for handling of dusty products  
Any handling and/or storage of products must be suited to the explosibility characteristics of each product, which are well known by the customer. He is the sole responsible person and must therefore take action to avoid any accident hazard (explosion in particular) and/or product alteration. (\*)

07.2 Storage

Technical measures..... : Bulk storage silos must be compliance with the ATEX directive.  
(\*)

Storage conditions..... : store in a cool and dry area

Incompatible products..... : strong oxidizing agents

Packaging materials..... : polythene and paper bag, flexible bulk container

08. EXPOSURE CONTROLS/PERSONAL PROTECTION:

08.1 Control parameters..... : follow the national regulation applicable to non specific total dusts  
AEL <= 10 mg/m<sup>3</sup> (France)

08.2 Personal protective equipment

Respiratory protection..... : dust mask in case of dust occurrence

Eye protection..... : appropriate goggles (optional)

Hand protection..... : not necessary

Skin and body protection..... : none

08.3 Hygiene measures..... : general hygiene practices for chemical products handling

09. PHYSICAL AND CHEMICAL PROPERTIES:

09.1 Physical state..... : powder

Colour..... : light yellow

Odour..... : neutral

09.2 pH (concentration)..... : 6.5 - 7.5 at 10 %

09.3 Boiling temperature..... : not applicable

Flashpoint..... : not applicable

Autoignition temperature..... : 400 °C (GG - cloud)

09.4 Explosion properties..... : min ignition energy : > 1200 mJ  
max explosion pressure : approx 6.7 bars  
KST : approx 48 bar m/s  
Class (VDI 3673 ST) : 1  
min explosible concentration : 30 - 60 g/m<sup>3</sup>  
(ref : INERIS, similar to Sodium Gluconate F)

09.5 Density..... : approx 0.85 kg/l

09.6 Solubility..... : soluble at 25 °C (approx 600 g/l)

10. STABILITY AND REACTIVITY:

10.1 Stability..... : stable with respect to storage conditions

10.2 Hazardous reactions..... : air / dust mixture (explosion hazards)

10.3 Materials to avoid..... : strong oxidizing agents

10.4 Hazardous decomposition products.. : typical decomposition products : Carbon monoxide and dioxide, oxygen, water

11. TOXICOLOGICAL INFORMATION:

11.1 Acute toxicity..... : DL50 : not available

11.2 Local effects..... : rubbing may cause mechanical skin irritation for hypersensitive individuals

11.3 Other information..... : no known toxicity

12. ECOLOGICAL INFORMATION:

- 12.1 Persistence/Degradability..... : biodegradable product  
12.2 Bioaccumulation..... : not applicable, product metabolized by organisms  
12.3 Ecotoxicity..... : CL50 : not available

13. DISPOSAL CONSIDERATIONS:

- 13.1 Waste from residues..... : can be eliminated as a solid waste ( common industrial waste) or incinerated in approved treatment plant conforming with applicable regulations and legislation  
13.2 Contaminated packaging..... : single use packaging eliminate or recycle according to local regulations

14. TRANSPORT INFORMATION:

- 14.1 International regulations..... : not applicable  
14.2 UN number..... : none  
RID/ADR RTMDR IMDG IATA/OACI  
Class..... : n a n a n a n a  
Group, number or page..... :  
Labelling..... :  
Danger code..... :  
Product code..... :

15. REGULATORY INFORMATION:

- 15.1 Labelling according to EEC standards..... : not required  
Hazard symbol..... : not applicable  
15.2 Local regulations..... : product conforming with following regulations :  
\* FDA - CFR 21 : !! 176.170 & 176.180  
! 182.6757  
\* Food Additive E 576  
\* FCC (current edition)

16. OTHER INFORMATION:

Note :

This bulletin completes the Technical Directions for use but is not a substitute for them.

Attention is drawn to the risks encountered when the product is used in applications other than those for which intended.

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.

All information and instructions provided in this Safety Data Sheet (SDS) is made with no warranty ; they are based on the current state of our knowledge at the latest revision date indicated.

\* Updating :

The modified texts of the former versions are marked with an asterisk (\*).