



SAFETY DATA SHEET

REF : A70-007N

January 07 - P 1/4

PRODUCT : GLUCONO DELTA LACTONE T

acc 91/155/CEE and its amendments

! !
! **01. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION:** !
! 01.1 Chemical product name..... : GLUCONO DELTA LACTONE T !
! !
! 01.2 Supplier..... : ROQUETTE FRERES !
! Address..... : 62136 LESTREM FRANCE !
! Telephone/Telefax..... : 03.21.63.36.00 / 03.21.63.38.50 !
! Emergency telephone USA Only : PMP Fermentation Products, Inc. !
! : Distributor: (309) 637-9432 !
! !
! **02. COMPOSITION/INFORMATION ON INGREDIENTS:** !
! 02.1 Substance..... : yes !
! 02.2 Common chemical name..... : glucono delta lactone !
! 02.3 CAS number..... : 90-80-2 !
! 02.4 N° EINECS..... : 202-016-5 !
! 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 !
! irritation (eyes, respiratory tracts, skin) !
! 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 !
! 04.5 Other information..... : take off contaminated clothing !
! !
! **05. FIRE-FIGHTING MEASURES:** !
! 05.1 Extinguishing media..... : water spray !
! 05.2 Non-suitable extinguishing media.. : CO2 : 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, vaccuum up, if !
! necessary wash with water. !
! to eliminate residues , see § 13 !
! !
! **07. HANDLING AND STORAGE:** !
! 07.1 Handling !
! Technical measures..... : follow recommendations for personal !
! !



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!		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 characteris-	!
!		tics 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	!
!			!
!	!08. EXPOSURE CONTROLS/PERSONAL PROTECTION:		!
!	!08.1 Control parameters.....	: follow the national regulation applicable to	!
!		non specific total dusts	!
!		AEL <= 10 mg/m3 (France)	!
!	!08.2 Personal protective equipment		!
!	Respiratory protection.....	: dust mask in case of dust occurrence	!
!	Eye protection.....	: appropriate goggles in case of dust occurrence!	!
!	Hand protection.....	: gloves	!
!	Skin and body protection.....	: recommended	!
!	!08.3 Hygiene measures.....	: general hygiene practices for chemical	!
!		products handling	!
!			!
!	!09. PHYSICAL AND CHEMICAL PROPERTIES:		!
!	!09.1 Physical state.....	: powder	!
!	Colour.....	: white	!
!	Odour.....	: neutral	!
!	!09.2 pH (concentration).....	: approx 4 at 1 %, approx 2,6 (2 hours after)	!
!	!09.3 Boiling temperature.....	: not applicable	!
!	Melting point.....	: approx 153 °C	!
!	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/m3	!
!		(ref : INERIS, similar to Sodium Gluconate F)!	!



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! !
!09.5 Density..... : approx 0.80 kg/l !
!09.6 Solubility..... : soluble at 20 °C (approx 500 g/l) !
! !
!10. STABILITY AND REACTIVITY: !
!10.1 Stability..... : stable with respect to storage conditions §7 !
!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 !
! send to water treatment plant prior to !
! release !
!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 !

