



S.S Depocular ve Ardiyeciler Koop. 102 Ada 2 Pafta 1.Kat Başakşehir, İSTANBUL

Telefon : 90 – 212 - 675 05 39 pbx

Fax No : 90 – 212 - 675 08 02

Web : www.askimya.com

E-mail : info@askimya.com

METARIAL SAFETY DATA SHEET

1, MSDS Safety Information

FSC: 6810

NIIN: 01-021-0145

MSDS Date: 01/07/2012

MSDS Num: CLKCH

Product ID: SODIUM GLUCONATE

MFN: 02

Responsible Party

Cage: 0UGZ0

Review Ind: Y

Published: Y

2, Item Description Information

Item Manager: S9G

Item Name: SODIUM GLUCONATE

Unit Of Issue: BG

Quantitative Expression: 00000000100LB

UI Containet Qty: 0

Type of Container: BAG

3, Ingredients

Cas: 527-07-1

RTECS#: LZ5235000

Name: SODIUM GLUCONATE

OSHA PEL: 5MG/M3 (NDUST)

ACGIH TLV: 5MG/M3 (NDUST)

4, Health Hazards Data

LD50 LC50 Mixture: NO DATA PROVIDED BY MANUFACTURER

Carcinogenicity Inds-NTP: NO

IARC: NO

OSHA: NO

Effects Of Exposure: INHALATION: DUST MAY CAUSE IRRITATION OF MUCOUS MEMBRANE AND RESPIRATORY TRACT.EYE/SKIN/INGESTION:NO DATA AVAILABLE.

CHRONIC: NO DATA AVAILABLE.

Explanation Of Carcinogenicity: NONE

Signs And Symptoms Of Overxposure: NHALATION: DUST MAY CAUSE IRRITATION OF MUCOUS MEMBRANE AND RESPIRATORY TRACT.EYE/SKIN/INGESTION: NO DATA AVAILABLE.

CHRONIC: NO DATA AVAILABLE.

Medical Cond Aggravated By Exposure: NO DATA PROVIDED BY MANUFACTURER

First Aid: GENERAL ADVICE:NO HAZARDS WHICH REQUIRE SPECIAL FIRST AID MEASURES.

IF YOU FEEL UNWELL,SEEK MEDICAL ADVICE.INHALTION: MOVE TO FRESH AIR . IF

SYMPTOMS PERSISTS,CALL PHYSICLAN.SKIN CONTACT: WASH OFF WITH SOAP AND WATER.IF SKIN IRRITATION PERSISTS,CALL PHYSICIAN.EYE CONTACT: FLUSH EYES

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WITH WATER AS A PRECAUTION.IF EYE IRRITATION PERSISTS,CONSULT SPECIALIST.
INGESTION: DRINK WATER AS A PRECAUTION.CONSULT A PHYSICIAN IF NECESSARY.
PROTECTION OF FIREFIGHTERS: NO HAZARD WHICH REQUIRE SPECIAL FIRST AID MEASURES.

5, Handling and Disposal

Spill Release Procedures: SUE PERSONAL PROTECTIVE EQUIPMENT.AVOID DUST FORMATION.SWEEP UP AND SHOVEL.AFTER CLEANING,FLUSH AWAY TRACES WITH WATER.

Neutralizing Agent: NO DATA PROVIDEDBY MANUFACTURER

Waste Disposal Methods: DISPOSE ACCORDING TO FEDERAL,STATE AND LOCAL AUTHORITIES.

Handling And Storage Precautions: NO SPECIAL TECHNICAL PROTECTIVE MEASURES REQUIRED.NO SPECIAL HANDLING ADVICE REQUIRED.KEEP TIGHTLY CLOSED IN A DRY AND COOL PLACE. NO SPECIAL RESTRICTIONS ON STORAGE WITH OTHER PRODUCTS.STORE IN ORRGINAL CONTAINER.

Other Precautions: NO DATA PROVIDED BY MANUFACTURER

6, Fire and Ezplosion Hazard Information

Autoignition Temp: >200.C,392.F

Extinguishing Media: WATER,WATER SPRAY,DRY POWDER,FOAM,CARBON DIOXIDE

Fire Fighting Procedures: USE PERSONAL PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS WHEN FIGHTING FIRE IN ENCLOSED AREA.
STANDARD PROCEDURES FOR CHEMICAL FIRES.

Unusual Fire/Explosion Hazard: NO DATA PROVIDED BY MANUFACTURER

7, Control Measures

Respiratory Protection: NIOSH APPROVED DUST RESPIRATOR

Ventilation:PROVIDE GENERAL DILUTE VENTILATION.

Protective Gloves: GLOVES

Eye Protection: SAFETY GLASSES

Other Protective Equipment: LLIGHT WEIGHT PROTECIVE CLOTHING.

Work Hygicnic Practices: HANDLE IN ACCORDANCE WETH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE.

Supplemental Safety and Health:SYNONYMS:GLUCONIC ACID,SODIUM SALT,PENTAHYDROXYHEXANOIC ACID,SODIUM SALT,PENTAHYDROXYCAPROIC ACID,SODIUM SALT.

8, Physical/Chemical Properties

HCC: NI

B.P.Text: N/E

M.P/F.P Text: 170-175C

Dccomp Text: 196-198C

Vappor Pres: NOT VOLATILE

PH: 6.5-7.5 (10%)

Evaporation Rate&Peference: 0

Solubility in Water: SOLUBLE

Appearance and Odor: WHITE/OFF-SHITE GRANULAR POWDER;NONE TO SLIGHTLY PLEASANT SWEETISH ODOR

9, Reactivity Data

Stability Indicator: YES

Stability Condition To Avoid: KEEP CONTAINERS DRY AND TIGHTLY CLOSED TO AVOID MOISTURE ABSORPTION AND CONTAMINATION.

Materials To Avoid: STRONG OXIDIZIERS

Hazardous Decomposition Products: NO DECOMPOSITION IF STORED NORMALLY.THERMAL DECOMPOSITION CAN LEAD TO RELEASE OF IRRITATING GASES AND VAPORS.

Conditions To Avoid Polymerization: NO DATA PROVIDED BY MANUFACTURER

10, Toxicological Information

Toxicological Information:ACUTE TOXICITY:LD0/IV/RABBIT=7600-8700 MG/KG.

LOCAL EFFECTS:NO DATA AVAILABLE.CHRONIC TOXICITY:NO DATA AVAILABLE.HUMAN EXPERIENCE:HEALTH INIURIES ARE NOT KNOWN OR EXTENDED UNDER NORMAL USE.

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11, Ecological Information

Ecological:MOBILITY:COMPLETELY SOLUBLE.CHEMICAL OXYGEN DEMAND(COD):-807 MG O2/G.
BIOLOGICAL OXYGEN DEMAND WITHIN 5 DAYS(BOD5):-507 MGO2/G.DIN EN 29888(OECD 302B):READILY
BIODEGRADABLE(98% AFTER 2 DAYS).
BIOACCUMULATION:NO DATA AVAILABLE.ECOTOXICITY EFFECTS:TOXICITY TO
FISH=LD50>10,000MG/L.TOXICITY TO BACTERIA=
ECO>5,000MG/L.

12, MSDS Transport Information

Transport Information:NOT A HAZARDOUS MATERIAL FOR DOT SHIPPING.

Regulatory Information

Sara Title III:NOT CONSIDERED HAZARDOUS.

Federal Regulatory Information:CERCLA:NOT HAZARDOUS. THE INGREDIENTS ARE LISTED ON TSCA
INVENTORY LIST. SODIUM GLUCONATE IS GENERALLY RECOGNIZED
AS SAFE(GRAS) BY THE USA FDA.

State Regulatory Information:NO DATA PROVIDED BY MANUFACTURER

13, Other Information

Other Information :LISTED EUROPEAN FOOD ADDITIVE E576.FOREIGN INVENTORY
STATUS:CANADIAN DSL (DOMESTIC SUBSTANCE LIST).CANADIAN W:NOT REGULATED.
NPCA-RATING:HEALTH-0,FIRE-0,REACTIVITY-0.

14, Transportation Information

Responsible Party Cage:0UGZ0

Trans ID NO:158591

Product ID:SODIUM GLUCONATE

MSDS Prepared Date:05/10/2009

Review Date:08/29/2009

MFN:2

Net Unit Weight:100LBS

Multiple KIT Number:0

Unit Of Issuc:BG

Container QTY:0

Type Of Container: BAG

Additional Data:NOT REGULATED BY DOT FOR SHIPPING

15, Detail DOT Information

DOT PSN Code:ZZZ

DOT Proper Shipping Name:NOT REGULATED BY THIS MODE OF TRANSPORTATION

Detail IMO Information

IMO PSN Code:ZZZ

IMO Proper Shipping Name:NOT REGULATED FOR THIS MODE OF TRANSPORTATION

Detail IATA Information

IATA PSN Code:ZZZ

IATA Proper Shipping Name:NOT REGULATED BY THIS MODE OF TRANSPORTATION

Detail PSN Code:ZZZ

AFI Proper Shipping Name:NOT REGULATED BY THIS MODE OF TRANSPORTATION

HAZCOM Label

Product ID:SODIUM GLUCONATE

Cage:0UGZ0

Date Of Label Review:08/29/2009

Status Code:A

Year Procured:2001

Origination Code:F

Signal Word:CAUTION

Health Hazard:Slight

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Contact Hazard:None

Fire Hazard:None

Reactivity Hazard:None

16, Hazard And Precautions: TARGET ORGANS:N/P.INHALATION:DUST MAY CAUSE IRRITATION OF MUCOUS MEMBRANE AND RESPIRATORY TRACT.FIRST AID:

INHALATION:

MOVE TO FRESH AIR.IF SYMPTOMS PERSISTS,CALL PHYSICIAN.SKIN CONTACT:WASH OFF WITH SOAP AND WATER.IF SKIN IRRITATION PERSISTS,CALL PHYSICIAN.

EYE CONTACT:FLUSH EYES WITH WATER AS A PRECAUTION.IF EYE IRRITATION PERSISTS,CONSULT SPECIALIST.INGESTION:DRINK WATER AS A PRECAUTION.CONSULT A PHYSICIAN IF NECESSARY.