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MATERIAL SAFETY DATA SHEET

SODIUM GLUCONATE

SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

ACROYALI HOLDINGS QINGDAO CO.,LTD.

A2 8/F. FLAGSHIP TOWER,NO.40 HONGKONG MIDDLE ROAD,QINGDAO,CHINA.

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PRODUCT IDENTIFIERSODIUM GLUCONATE

PRODUCT USE INDUSTRIAL USES

SECTION 02 - COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS..... SODIUM GLUCONATE 98-100%

CAS NUMBER..... SODIUM GLUCONATE 527-07-1

SYNONYM (S)..... .NONE

SECTION 03 - HAZARD IDENTIFICATION

INHALATION..... BREATHING DUST MAY IRRITATE NOSE
AND THROAT AND CAUSE COUGHING
AND CHEST
DISCOMFORT.

SKIN CONTACT / ABSORPTION.....NO IRRITATION IS LIKELY AFTER BRIEF
CONTACT BUT MAY BE IRRITATING
AFTER PROLONGED CONTACT.

EYE CONTACT..... DUSTS MAY IRRITATE THE EYES.

INGESTION..... TOXIC EFFECTS POSSIBLE.

EXPOSURE LIMITS..... NO ESTABLISHED LIMITS. TREAT AS A
NUISANCE DUST.

SECTION 04 - FIRST AID MEASURES

INHALATION.....REMOVE VICTIM TO FRESH AIR. GIVE
ARTIFICIAL RESPIRATION ONLY IF
BREATHING HAS STOPPED. IF BREATHING
IS DIFFICULT, GIVE OXYGEN. SEEK
IMMEDIATE MEDICAL
ATTENTION.

SKIN CONTACT / ABSORPTION.....REMOVE CONTAMINATED CLOTHING. WASH
AFFECTED AREA WITH SOAP AND WATER.
SEEK MEDICAL ATTENTION IF IRRITATION
OCCURS OR PERSISTS

EYE CONTACT.....FLUSH IMMEDIATELY WITH WATER FOR AT
LEAST 20 MINUTES. FORCIBLY HOLD
EYELIDS APART TO ENSURE COMPLETE
IRRIGATION OF EYE TISSUE. SEEK

IMMEDIATE
MEDICAL ATTENTION
INGESTION....., NONE FOR SMALL AMOUNTS. OTHERWISE,
SEEK MEDICAL ATTENTION.
ADDITIONAL INFORMATION..... NOT AVAILABLE

SECTION 05 - FIRE FIGHTING

CONDITIONS OF FLAMMABILITY..... NON-FLAMMABLE
MEANS OF EXTINCTION..... USE WATER SPRAY, DRY CHEMICAL,
CO2, OR ALCOHOL FOAM.
FLASH POINT.... 270OC
AUTO-IGNITION TEMPERATURE..... NOT APPLICABLE
UPPER FLAMMABLE LIMIT NOT APPLICABLE
LOWER FLAMMABLE LIMIT..... NOT APPLICABLE
HAZARDOUS COMBUSTIBLE PRODUCTS... CARBON MONOXIDE AND CARBON
DIOXIDE
SPECIAL FIRE FIGHTING PROCEDURES.... WEAR NIOSH-APPROVED
SELF-CONTAINED BREATHING
APPARATUS AND PROTECTIVE
CLOTHING.
EXPLOSION HAZARDS..... DUST MAY FORM EXPLOSIVE
MIXTURES WITH AIR.

SECTION 06 - ACCIDENTAL RELEASE MEASURES

LEAK / SPILL..... WEAR APPROPRIATE PERSONAL
PROTECTIVE EQUIPMENT.
VENTILATE AREA. ONLY ENTER AREA
WITH PPE. STOP OR REDUCE LEAK IF
SAFE TO DO SO. PREVENT MATERIAL
FROM ENTERING SEWERS.
DEACTIVATING MATERIALS..... NOT AVAILABLE

SECTION 07 - HANDLING AND STORAGE

HANDLING PROCEDURES..... USE PROPER EQUIPMENT FOR
LIFTING AND TRANSPORTING ALL
CONTAINERS. USE SENSIBLE
INDUSTRIAL HYGIENE AND
HOUSEKEEPING PRACTICES. WASH
THOROUGHLY AFTER HANDLING.
AVOID ALL SITUATIONS THAT COULD
LEAD TO HARMFUL EXPOSURE.
STORAGE REQUIREMENTS..... STORE IN A
COOL, DRY, WELL-VENTILATED PLACE.
KEEP CONTAINER TIGHTLY CLOSED.

SECTION 08 - PERSONAL PROTECTION AND EXPOSURE CONTROLS

PROTECTIVE EQUIPMENT

EYES..... CHEMICAL GOGGLES, FULL-FACE
SHIELD, OR A FULL-FACE
RESPIRATOR IS TO BE WORN AT ALL

	<p>TIMES WHEN PRODUCT IS HANDLED.</p> <p>CONTACT LENSES SHOULD NOT BE WORN;</p> <p>THEY MAY CONTRIBUTE TO SEVERE EYE INJURY.</p>
RESPIRATORY.....	RESPIRATORY PROTECTION IS NOT NORMALLY REQUIRED. IF USE CREATES DUST FORMATIONS, THEN A NIOSH-APPROVED RESPIRATOR WITH A DUST CARTRIDGE IS RECOMMENDED.
GLOVES.....	IMPERVIOUS GLOVES OF CHEMICALLY RESISTANT MATERIAL (RUBBER OR PVC) SHOULD BE WORN AT ALL TIMES. WASH CONTAMINATED CLOTHING WITH SOAP AND WATER, DRY THOROUGHLY BEFORE REUSE.
CLOTHING.....	BODY SUITS, APRONS, AND/OR COVERALLS OF CHEMICAL RESISTANT MATERIAL SHOULD BE WORN AT ALL TIMES. WASH CONTAMINATED CLOTHING WITH SOAP AND WATER, DRY THOROUGHLY BEFORE REUSE.
FOOTWEAR.....	IMPERVIOUS BOOTS OF CHEMICALLY RESISTANT MATERIAL SHOULD BE WORN AT ALL TIMES
ENGINEERING CONTROLS	
VENTILATION REQUIREMENTS.....	MECHANICAL VENTILATION (DILUTION OR LOCAL EXHAUST), PROCESS OR PERSONNEL ENCLOSURE, AND CONTROL OF PROCESS CONDITIONS. SUPPLY SUFFICIENT REPLACEMENT AIR TO MAKE UP FOR AIR REMOVED BY EXHAUST SYSTEMS.
OTHER.....	USE GENERAL OR LOCAL MECHANICAL EXHAUST VENTILATION TO CONTROL DUST AND TO MEET TLV EQUIREMENTS.
SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES	
PHYSICAL STATE.....	SOLID
ODOR AND APPEARANCE.....	WHITE TO CREAM COLOURED ODOURLESS POWDER
ODOR THRESHOLD.....	NOT APPLICABLE

SPECIFIC GRAVITY (WATER=1).....	NOT AVAILABLE
VAPOR PRESSURE (MM HG, 20C).....	NOT APPLICABLE
VAPOR DENSITY (AIR=1).....	NOT APPLICABLE
EVAPORATION RATE.....	NOT APPLICABLE
BOILING POINT.....	NOT AVAILABLE
FREEZE/MELTING POINT.....	131° C
PH.....	NOT AVAILABLE
WATER/OIL DISTRIBUTION COEFFICIENT..	NOT AVAILABLE
BULK DENSITY.....	APPROXIMATELY 0.8-1.0
% VOLATILES BY VOLUME.....	0
SOLUBILITY IN WATER.....	37% W/W AT 25° C
MOLECULAR FORMULA.....	C6H11O7NA
MOLECULAR WEIGHT.....	218

SECTION 10 - STABILITY AND REACTIVITY

STABILITY.....	STABLE UNDER NORMAL CONDITIONS.
INCOMPATIBILITY.....	NOT AVAILABLE
HAZARDOUS PRODUCTS OF DECOMPOSITION..	THERMAL DECOMPOSITION MAY PRODUCE CARBON MONOXIDE AND CARBON DIOXIDE.
POLYMERIZATION.....	WILL NOT OCCUR

SECTION 11 - TOXICOLOGICAL INFORMATION

IRRITANCY.....	MILD IRRITANT
SENSITIZATION.....	NOT AVAILABLE
CHRONIC/ACUTE EFFECTS.....	MAY CAUSE LUNG INJURY.
SYNERGISTIC MATERIALS.....	NOT AVAILABLE
ANIMAL TOXICITY DATA.....	NOT AVAILABLE
CARCINOGENICITY.....	NOT CONSIDERED TO BE CARCINOGENIC AS PER NTP, IARC, OSHA, AND ACGIH.
REPRODUCTIVE TOXICITY.....	NOT AVAILABLE
TERATOGENICITY.....	NOT AVAILABLE
MUTAGENICITY.....	NOT AVAILABLE

SECTION 12 - ECOLOGICAL INFORMATION

FISH TOXICITY.....	NOT AVAILABLE
BIODEGRADABILITY.....	NOT AVAILABLE
ENVIRONMENTAL EFFECTS.....	NOT AVAILABLE

SECTION 13 - DISPOSAL CONSIDERATION

WASTE DISPOSAL.....	DISPOSE IN ACCORDANCE WITH ALL FEDERAL, PROVINCIAL, AND/OR LOCAL REGULATIONS INCLUDING THE CANADIAN ENVIRONMENTAL PROTECTION ACT.
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SECTION 14 - TRANSPORTATION INFORMATION

TDG CLASSIFICATION	
CLASS.....	NOT REGULATED
GROUP.....	NOT REGULATED

PIN NUMBER.....
OTHER.....

NOT REGULATED
SECURE CONTAINERS (FULL AND/OR
EMPTY) WITH SUITABLE HOLD DOWN
DEVICES DURING SHIPMENT.

SECTION 15 - REGULATORY INFORMATION

WHMIS CLASSIFICATION..... NOT A CONTROLLED PRODUCT

NOTE: THE PRODUCT LISTED ON THIS MSDS HAS BEEN CLASSIFIED IN
ACCORDANCE WITH THE
HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS.
THIS MSDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS

SECTION 16 - OTHER INFORMATION

NOTE: THE RESPONSIBILITY TO PROVIDE A SAFE WORKPLACE REMAINS WITH
THE USER. THE USER SHOULD CONSIDER THE HEALTH HAZARDS AND SAFETY
INFORMATION CONTAINED HEREIN AS A GUIDE AND SHOULD TAKE THOSE
PRECAUTIONS REQUIRED IN AN INDIVIDUAL OPERATION TO INSTRUCT
EMPLOYEES AND DEVELOP WORK PRACTICE PROCEDURES FOR A SAFE WORK
ENVIRONMENT. THE INFORMATION CONTAINED HEREIN IS, TO THE BEST OF
OUR KNOWLEDGE AND BELIEF, ACCURATE. HOWEVER, SINCE THE CONDITIONS
OF HANDLING AND USE ARE BEYOND OUR CONTROL, WE MAKE NO GUARANTEE
OF RESULTS, AND ASSUME NO LIABILITY FOR DAMAGES INCURRED BY THE USE
OF THIS MATERIAL. IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH
ALL APPLICABLE LAWS AND REGULATIONS.

Technical Data Sheet

Sodium Gluconate tech grade/food grade

HS Code:29181600

Molecular weight: 218.14

concrete admixtures, food additives & cleaner

Sodium Gluconate technical grade (concrete admixture)

Sodium gluconate is the sodium salt of gluconic acid, produced by fermentation of glucose. It is a white to tan, granular to fine, crystalline powder, very soluble in water. Non corrosive, non toxic and readily biodegradable (98% after 2 days), sodium gluconate is more and more appreciated as chelating agent.

Application of Sodium Gluconate:

Food grade and pharmaceutical grade: It can adjust the acid and alkali level of human body and keep it balanceable. It will insure the nerves act normally and defend syndrome of lack of sodium. Meanwhile, it is used as food additive and pharmaceutical intermediate.

Industrial grade: It is widely used as retarder of cement in construction industry. It can efficiently prevent commercial cement from concreting and agglomeration during transportation. Besides, it can also be used as surface cleaning agent of steel, professional cleaning agent of glass bottle, antiscaling and corrosion inhibitor.

Specification Food grade FCC IV	
Item	standard
Appearance	White crystal powders
Identification	in accordance with standard
Assay	98.0-102.0 %min
Loss on dry	0.30% max
Reducing substances	0.50% max
PH	6.2 ~ 7.8
Sulfate	0.02% max
Chloride	0.02% max
Pb ,ppm	1 PPM max
Arsenic salt	2 PPM max
Heavy metals	10 PPM max

Specification Tech grade	
Item	standard
Appearance	White crystalline granulars or powders
Identification	in accordance with standard
Assay	98.0% min
Loss on dry	1.0% max
Reducing substances	0.50% max
PH	6.2 ~ 7.8
Sulfate	0.05% max
Heavy metals	0.002%Max
Lead	0.001%Max

PACKAGING

25KG PP bag ,500KG/1000KG Super sacks

STORAGE

Keep Clean, dry, and ventilated places