

No 52 Yanye Road, Wulian County Shandong China Tel: 86 15606330617 FAX:86 633 5889929

MATERIAL SAFETY DATA SHEET OF GLUCONO ACID 50% FOOD GRADE

Product: Gluconic Acid 50%

Review Date:23/03/2021

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMMERCIAL PRODUCT NAME Gluconic Acid 50% Food Grade 2. COMPANY/SUPPLIER SHANDONG KAISON BIOCHEMICAL CO.LTD. NO.52,YANHE ROAD, WULIAN COUNTY,SHANDONG,CHINA Emergency Phone 86 156 06330617 24HOURS

PRODUCT USE: Food Additive, Cleaning and Pickling metals, Sequestrant, Cleansers, Paint Strippers. MSDS Revision July 17, 2010 reason for revision: reclassification and reformatting.

3. COMPOSITION, INFORMATION ON INGREDIENTS

CHEMICAL NAME OF THE MATERIAL :Gluconic Acid solution in water CHEMICAL FORMULA: $C_6H_{12}O_7 + 50\%$ water

CHEMICAL FAMILY:Organic acid, aqueous solution

SYNONYMS :D-Gluconic Acid, Dextronic acid, maltonic acid, glyconic acid, glycogenic acid,

pentahydroxycaproic acid,

COMPOSITION	CAS Reg. No.	%
Gluconic Acid	526-95-4	Min. 50
Water	7732-18-5	Max. 50
HAZARDOUS IMPUF	RITIES :None	

4. HAZARDS IDENTIFICATION

Classification	Xi, R36		
Most important hazards	Irritating to eyes.		
5. FIRST AID MEASURES			
General advice :	No hazards which require special first aid measures. If you feel unwell, seek medical advice.		
Inhalation :	Move to fresh air. If symptoms persist, call a physician.		
Skin contact:	Wash off with soap and plenty of water If skin rritation persists, call a physician.		
Eye contact:	Immediately Flush eyes with water for 15 minutes. If eye irritation persists, consult a specialist		
Ingestion:	Drink water as a precaution. Do not induce vomiting. Get medical attention.		
Protection of first-aiders: Use personal protective equipment			

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6. FIRE FIGHTING MEASURES

FLASH POINT: not applicable FLAMMABLE LIMITS: not applicable Autoignition temperature: not applicable General Hazards: Acid reacts with most metals to release hydrogen gas which can form explosive mixtures. water, water spray, dry powder, foam, carbon dioxide (CO2) Suitable extinguishing media : Extinguishing media which: must not be used for safety reasons None Hazardous decomposition products carbon oxides Special protective equipment Use personal protective equipment including self-contained breathing apparatus when fighting fire in enclosed area. Specific methods Standard procedure for chemical fires. 7. ACCIDENTAL RELEASE MEASURES Personal precautions Use personal protective equipment. Dispose according to rederar state and local authorities. Methods Environmental precautions Small spills can be flushed into normal drainage or taken up with for cleaning up absorbent material. Larger spills should be contained by diking or otherwise held for collection and disposal. Do not allow contact with skin or eyes. Spills tend to be tacky and slippery. Can be neutralized with lime or soda. After cleaning, flush away traces with copious amounts of water. Is a hazardous waste under current RCRA criteria. 8. HANDLING AND STORAGE 1121300240 HANDLING Technical measures/Precautions :No special technical protective measures required. Use personal protective equipment. Safe handling advice: STORAGE Technical measures/Storage conditions: Keep tightly closed. Keep at temperatures above 15°C(to avoid risk of crystallisation.) Crystallization will affect the physical condition but will not damage the material. If crystallized, warm and stir before using Incompatible products : No special restrictions on storage with other products. Packaging material : Store in original container. 9. EXPOSURE CONTROLS, PERSONAL PROTECTION Engineering measures : Provide general dilute ventilation. Eye wash and safety shower available to work area. Exposure limit(s): None established for this ingredient,

use OSHA PEL, ACGIH TLV for Nuisance dusts of 5 mg/ m^3 .

Personal protection equipment

Respiratory protection

Not required unless aerosols are produced.



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Hand protection	Gloves	
Eye Protection	Safety glasses	
Skin and body protection	Lightweight protective clothin	a
Hygiene measures		ood industrial hygiene and safety
	practice	
	EMICAL PROPERTIES	
	aqueous solution, approx. 50%	
•	yellow/brown	
Odor	slight acetous	
рН (10%)	1.2-1.3	
Vapor pressure	not available	
· ·	not applicable	
Boiling point	>100 °C	
	15 °C, ~60 °F crystallizes	
Evaporation rate	not applicable	
Coefficient of water/oil distrib		
Melting point/range	not applicable	
Decomposition temperature	Supplicable S	
Relative density	21232	
Bulk density		
Explosive properties	hone	
Water solubility g/kg	misciple 13002406	
Other information		
# Viscosity 11. STABILITY AND REAC	approx. 30 mPa.s	
Stability	Stable at normal conditions,	
	Hazardous polymerisation does	
Conditions to avoid	Keep tightly closed in a dry place	above 15°C to avoid risk of
	crystallisation.	
Materials to avoid	Incompatible strong bases and ox	
Hazardous decomposition pr	oducts No decomposition if stored norm lead to release of irritating gase:	nally. Thermal decomposition can s and vapors.
Hazardous polymerization	Does Not occur	'
12. TOXICOLOGICAL INFO		
The following toxicological da	ata shown are those obtained from tests on	products of similar composition (in
accordance with EC-Directive		

Acute toxicity

LD50/p.o./rat = 5940 mg/kg bw (1) LD50/p.o./mouse = 6800 mg/kg bw (1) LD50/p.o./rabbit = 7850 mg/kg bw (1) LD50/p.o./hamster = 5600 mg/kg bw (1)



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Local effects Irritating to eyes. May cause skin irritation in susceptible persons. Chronic toxicity no data available Human experience Health injuries are not known or expected under normal use. **13. ECOLOGICAL INFORMATION** Mobility completely soluble Persistence and degradability Chemical oxygen demand 897 mg O2/g Biochemical oxygen demand within 5 days (BOD5) = 634 mg/O2/gReadily biodegradable 98% after 3 days Bioaccumulation no data available Ecotoxicity effects Toxicity to fish LD50=360 mg/l Toxicity to bacteria EC0. 10,000 mg/l

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14. TRANSPORT INFORMATION

Not regulated by IMO/IMDG

DOT Classification: Not a DOT controlled material (United States). Identification: Not applicable. Special Provisions for Transport: Not applicable.

Not a Hazardous Material for DOT shipping.

15. DISPOSAL CONSIDERATIONS

Waste from residues/unused products

Any disposal practice must be in compliance with local state and federal laws and regulations (contact local or state environmental

agencyspecific rules).

Is a hazardous waste under current RCRA

16. REGULATORY INFORMATION

The ingredients are listed on the TSCA Inventory List

CERCLA (Comprehensive Response Compensation and Liability Act): HMIS Health=2, Fire=0, Reactivity=0, Persistance=0

CADA Title III (Superfund Amendments and Deputherizet

SARA Title III (Superfund Amendments and Reauthorization Bill): Not Considered Hazardous

17. OTHER INFORMATION

HMIS* Health=2, Fire=0, Reactivity=0

*Hazardous Material Information System of the National Paint and Coating Association. MSDS Status: Revised 17/07/10 by Technical Service Department of SHANDONG KAISON BIOCHEMICAL CO.,LTD.. to update exposure information.

Reviewed 17/07/2010, reviewed, 30/12/2014, reviewed, 23/03/2021

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