

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

MATERIAL SAFETY DATA SHEET

OF GLUCONO ACID 50%

Product: Gluconic Acid 50% Review Date:23/03/2021 page 1 of 4

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMMERCIAL PRODUCT NAME Gluconic Acid 50%

COMPANY/SUPPLIER SHANDONG KAISON BIOCHEMICAL CO.LTD.

NO.52, YANHE ROAD, WULIAN COUNTY, SHANDONG, CHINA

Emergency Phone 86 156 06330617 24HOURS

PRODUCT USE Cleaning and pickling metals, sequestrant, cleansers, paint strippers. MSDS Revision July 17, 2010 reason for revision: reclassification and reformatting.

2. COMPOSITION, INFORMATION ON INGREDIENTS

CHEMICAL NAME OF THE MATERIAL :Gluconic Acid solution in water

CHEMICAL FORMULA: C₆H₁₂O₇ + 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 IMPURITIES :None

3. HAZARDS IDENTIFICATION

Classification Xi, R36

4. FIRST AID MEASURES

General advice: No hazards which require special first aid measures. If you feel unwell,

seek medical advice con BIOCHE

Inhalation: Move to fresh air. If symptoms density, call a physician.

Skin contact: Wash off with soap and plenty of water livskin irritation persists, call a

physician.

Eye contact: Immediately Flush eye with water for min ites. If eye irritation persists,

consult a specialist:

Ingestion: Drink water as a precaution. Be not induce vomiting. Get medical

attention.

Protection of first-aiders: Use personal protective equipment.



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5. 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

Suitable extinguishing media : water, water spray, dry powder, foam, carbon dioxide (CO2)

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal projective equipment.

Environmental precautions Dispose property of the state and local authorities.

Methods for cleaning up

Small spills can be fluing of other wise held for collection and disposal. Do not allow contact with skin or eyes spills term to be tacky and slippery. Can be neutralized with lime or soda. After cleaning, flush away traces with copious amounts of water.

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Is a hazardous waste under current RCRA crite

7. HANDLING AND STORAGE

HANDLING

Technical measures/Precautions :No special technical protective measures required.

Safe handling advice: Use personal protective equipment.

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.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering measures :Provide general dilute ventilation. Eye wash and safety shower available to work

Exposure limit(s): None established for this ingredient,

use OSHA PEL, ACGIH TLV for Nuisance dusts of 5 mg/ m³.

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 clothing

Hygiene measures Handle in accordance with good industrial hygiene and safety

practice

not applicab

or appli

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nella valiable

9. PHYSICAL AND CHEMICAL PROPERTIES

Form aqueous solution, approx. 50%

Color yellow/brown
Odor slight acetous

pH (10%)

Vapor pressure

Vapor density

Boiling point

1.2-1.3

not available

not applicable

>100 °C

Freezing Point ~15 °C, ~60 °F crystallizes

Evaporation rate

Coefficient of water/oil distribution

Melting point/range

Decomposition temperature

Relative density Bulk density Explosive properties

Water solubility g/kg
Other information

Viscosity approx. 30 mPa.s

10. STABILITY AND REACTIVITY

Stability Stable at normal conditions,

Hazardous polymerisation does not occur.

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 oxidizers.

Hazardous decomposition products
No decomposition if stored normally. Thermal decomposition can

lead to release of irritating gases and vapors.

Hazardous polymerization Does Not occur

11. TOXICOLOGICAL INFORMATION

The following toxicological data shown are those obtained from tests on products of similar composition (in accordance with EC-Directive 1999/45/EC).

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.

12. 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/g
Readily 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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13. 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 agency for the circulars.

Is a hazardous waste under current FG

14. TRANSPORT INFORMATION

Not a Hazardous Material for DOT showing

15. REGULATORY INFORMATION

The ingredients are listed on the TSCA In entory List and

CERCLA (Comprehensive Response Compensation, and Liability Act):

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

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

16. 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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