

## SAFETY DATA SHEET

## 1. IDENTIFICATION

Product name:  $\beta$ -D-Ribopyranose 1,2,3,4-tetraacetate

CAS No. : 4049-34-7

Brand: Macklin

Company: Shanghai Macklin Biochemical Co.,Ltd.

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## 2. HAZARDS IDENTIFICATION

GHS classification

PHYSICAL HAZARDS

no data available

HEALTH HAZARDS

no data available

ENVIRONMENTAL HAZARDS

no data available

GHS label elements, including precautionary statements

Pictograms or hazard symbols

Signal word

No signal word

Hazard statements

no data available

Precautionary statements

Prevention

no data available

Response

no data available

Storage

no data available

Disposal

no data available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components: $\beta$ -D-Ribopyranose 1,2,3,4-tetraacetate

CAS No.:4049-34-7

Chemical Formula: $C_{13}H_{18}O_9$

## 4. FIRST AID MEASURES

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Get medical advice/attention if you feel unwell.

Skin contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion: Get medical advice/attention if you feel unwell. Rinse mouth.

Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

## 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, foam, water spray, carbon dioxide.

Precautions for firefighters: Fire-extinguishing work is done from the windward and the suitable fire-extinguishing

method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.

Special protective equipment for firefighters: When extinguishing fire, be sure to wear personal protective equipment.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Keep people away from and upwind of spill/leak.

Entry to non-involved personnel should be controlled around the leakage area by

emergency procedures: roping off, etc.

Environmental precautions: Prevent product from entering drains.

Methods and materials for containment and cleaning: Sweep dust to collect it into an airtight container, taking care not to disperse it.

Adhered or collected material should be promptly disposed of, in accordance with

up: appropriate laws and regulations.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Technical measures: Handling is performed in a well ventilated place. Wear suitable protective equipment.

Prevent dispersion of dust. Wash hands and face thoroughly after handling.

Use a local exhaust if dust or aerosol will be generated.

Advice on safe handling: Avoid contact with skin, eyes and clothing. Conditions for safe storage, including any

### Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Store in a cool and dark place.

Store away from incompatible materials such as oxidizing agents.

Packaging material: Comply with laws.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Install a closed system or local exhaust as possible so that workers should not be

exposed directly. Also install safety shower and eye bath.

### Personal protective equipment

Respiratory protection: Dust respirator. Follow local and national regulations.

Hand protection: Protective gloves.

Eye protection: Safety glasses. A face-shield, if the situation requires.

Skin and body protection: Protective clothing. Protective boots, if the situation requires.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Solid

Form: Crystal- Powder  
Colour: White - Almost white  
Odour: odorless  
pH: No data available  
Melting point/freezing point: 110°C  
Boiling point/range: No data available  
Flash point: No data available  
Flammability or explosive  
limits:  
Lower: No data available  
Upper: No data available  
Relative density: No data available  
Solubility(ies):  
[Water] No data available  
[Other solvents] No data available

## 10. STABILITY AND REACTIVITY

Chemical stability: Stable under proper conditions.  
Possibility of hazardous reactions: No special reactivity has been reported.  
Incompatible materials: Oxidizing agents  
Hazardous decomposition products: Carbon monoxide, Carbon dioxide

## 11. TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available  
Skin corrosion/irritation: No data available  
Serious eye damage/irritation: No data available  
Germ cell mutagenicity: No data available  
Carcinogenicity:  
IARC = No data available  
NTP = No data available  
Reproductive toxicity: No data available

## 12. ECOLOGICAL INFORMATION

Ecotoxicity:  
Fish: No data available  
Crustacea: No data available  
Algae: No data available  
Persistence / degradability: No data available  
Bioaccumulative potential(BCF): No data available  
Mobility in soil  
Log Pow: No data available  
Soil adsorption (Koc): No data available  
Henry's Law constant(PaM<sup>3</sup>/mol): No data available

## 13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

## 14. TRANSPORT INFORMATION

14.1 UN Number  
ADR/RID: Not dangerous goods.  
IMDG: Not dangerous goods.  
IATA-DGR: Not dangerous goods.

14.2 UN Proper Shipping Name  
ADR/RID: Not dangerous goods.  
IMDG: Not dangerous goods.  
IATA-DGR: Not dangerous goods.  
14.3 Transport hazard class(es)  
ADR/RID: Not dangerous goods.  
IMDG: Not dangerous goods.  
IATA-DGR: Not dangerous goods.  
14.4 Packing group, if applicable  
ADR/RID: Not dangerous goods.  
IMDG: Not dangerous goods.  
IATA-DGR: Not dangerous goods.  
14.5 Environmental hazards  
ADR/RID: Not dangerous goods.  
IMDG: Not dangerous goods.  
IATA-DGR: Not dangerous goods.  
14.6 Special precautions for user  
Not dangerous goods.  
14.5024 Incompatible materials  
Not dangerous goods.

## 15. REGULATORY INFORMATION

### 15.1

Safety, health and environmental regulations specific for the product in question

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European Inventory of Existing Commercial Chemical Substances (EINECS)

Not Listed.

EC Inventory

Not Listed.

United States Toxic Substances Control Act (TSCA) Inventory

Not Listed.

China Catalog of Hazardous chemicals 2015

Not Listed.

New Zealand Inventory of Chemicals (NZIoC)

Not Listed.

Philippines Inventory of Chemicals and Chemical Substances (PICCS)

Not Listed.

Vietnam National Chemical Inventory

Not Listed.

Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)

Not Listed.

Korea Existing Chemicals List (KECL)

Not Listed.

## 16. OTHER INFORMATION

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout

use from opening to storage and disposal.Safe usage conditions shall be set up on each user's own responsibility.