

## 1. IDENTIFICATION

Product name: 1-(3-Hydroxypropyl)-2-pyrrolidone

CAS No. : 62012-15-1

Brand: Macklin

Company: Shanghai Macklin Biochemical Co.,Ltd.

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## 2. HAZARDS IDENTIFICATION

GHS classification

PHYSICAL HAZARDS

Not classified

HEALTH HAZARDS

Not classified

ENVIRONMENTAL HAZARDS

Not classified

GHS label elements, including precautionary statements

Pictograms or hazard symbols

Signal word

No signal word

Hazard statements

None

Precautionary statements

None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance

Components:1-(3-Hydroxypropyl)-2-pyrrolidone

CAS No.:62012-15-1

Chemical Formula:C<sub>7</sub>H<sub>13</sub>NO<sub>2</sub>

## 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 Dry chemical, foam, water spray, carbon dioxide.

media:

Unsuitable extinguishing Solid streams of water

media:

Specific hazards arising Take care as it may decompose upon combustion or in high temperatures to from the chemical: generate poisonous fume.

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

## 6. ACCIDENTAL RELEASE MEASURES

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

protective equipment and Ensure adequate ventilation. Entry to non-involved personnel should be controlled

emergency procedures: around the leakage area by roping off, etc.

Environmental precautions: Prevent product from entering drains.

Methods and materials for Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust).

containment and cleaning In case of large amount of spillage, contain a spill by bunding. Adhered or collected

up: material should be promptly disposed of, in accordance with 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 generation of vapour or mist. Wash hands and face thoroughly after handling.

Use a ventilation, local exhaust if vapour 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: Vapor 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): Liquid

Form: Clear

Colour: Pale yellow - Yellow

Odour: No data available

pH: No data available  
Melting point/freezing point: No data available  
Boiling point/range: 140°C/0.1kPa  
Flash point: No data available  
Flammability or explosive limits:  
Lower: No data available  
Upper: No data available  
Relative density: 1.11  
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, Nitrogen oxides (NOx)

## 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 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

Hazards Class: Does not correspond to the classification standard of the United Nations  
UN-No: Not listed

## 15. REGULATORY INFORMATION

Regulations on the Control over Safety of Dangerous Chemicals (State Council announces on January 26, 2002 and revised on February 16, 2011): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

## 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.