

1. IDENTIFICATION

Product name: 3-vinylpyridine

CAS No. : 1121-55-7

Brand: Macklin

Company: Shanghai Macklin Biochemical Co.,Ltd.

Address: Shanghai Pudong Zhangjiang High-tech Park; 1st Building, 68 Huatuo Road; SHANGHAI CHINA

Zip code: 201206

Telephone: +86 21-50706066

Fax: +86 21-50706099

E-mail: sales@macklin.cn; tech@macklin.cn

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2. HAZARDS IDENTIFICATION

GHS classification

PHYSICAL HAZARDS

Flammable liquids Category 3

HEALTH HAZARDS

Acute toxicity (Oral) Category 3

Acute toxicity (Dermal) Category 2

Skin corrosion/irritation Category 1B

Serious eye damage/eye irritation Category 1

Skin sensitization Category 1

Specific target organ toxicity Respiratory tract irritation

- Single exposure [Category 3]

ENVIRONMENTAL HAZARDS

Acute aquatic hazard Category 2

Long-term aquatic hazard Category 2

GHS label elements, including precautionary statements

Pictograms or hazard symbols

Signal word

Danger

Hazard statements

Flammable liquid and vapour

Toxic if swallowed

Fatal in contact with skin

Causes severe skin burns and eye damage

May cause an allergic skin reaction

May cause respiratory irritation

Toxic to aquatic life

Toxic to aquatic life with long lasting effects

Precautionary statements

[Prevention]

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against ignition by the static discharge and the spark.

Do not breathe dust/fume/gas/mist/vapours/spray.

Do not get in eyes, on skin, or on clothing.
Use only outdoors or in a well-ventilated area.
Avoid release to the environment.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
Wash hands thoroughly after handling.
Wear protective gloves and eye/face protection.

[Response]

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation or rash occurs: Get medical advice/attention.

Remove/Take off immediately all contaminated clothing.

Wash contaminated clothing before reuse.

Immediately call a POISON CENTER or doctor/physician.

Collect spillage.

[Storage]

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

[Disposal]

Dispose of contents/container through a waste management company authorized by the local government. Other hazards which do not May cause polimerization. result in classification

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance

Components:3-vinylpyridine

CAS No.:1121-55-7

Chemical Formula:C₇H₇N

4. FIRST AID MEASURES

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a POISON CENTER or doctor/physician.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.Immediately call a POISON CENTER or doctor/physician.

Ingestion: Immediately call a POISON CENTER or doctor/physician. 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, carbon dioxide.

media:

Unsuitable extinguishing Water (It may scatter and spread fire.)

media:

Specific hazards arising This substance may polimerize explosively when heated or involved in a fire. from the chemical: Container may explode when heated. Combat fire from a sheltered position.

Take care as it may decompose upon combustion or in high temperatures to 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: Keep containers cool by spraying with water. Eliminate all ignition sources 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 extra personal protective equipment (self-contained breathing apparatus). Keep protective equipment and people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-emergency procedures: involved personnel should be controlled around the leakage area by roping off, etc.
Environmental precautions: Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned.
Methods and materials for Absorb spilled material in dry sand or inert absorbent before recovering it into a containment and cleaning covered container. In case of large amount of spillage, contain a spill by bunding.
up: Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
Prevention of secondary Remove all sources of ignition. Fire-extinguishing devices should be prepared in hazards: case of a fire. Use spark-proof tools and explosion-proof equipment.

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. Keep away from heat/sparks/open flame/hot surfaces. -No smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling.
Use a closed system if possible. 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 an explosion-proof refrigerator.
Store under inert gas.
Store locked up.
Store away from incompatible materials such as oxidizing agents.
Heat-sensitive, Air-sensitive
Packaging material: Comply with laws.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Install a closed system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment

Respiratory protection: Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.
Hand protection: Impervious gloves.
Eye protection: Safety goggles. A face-shield, if the situation requires.
Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Liquid
Form: Clear
Colour: Colorless - Pale yellow
Odour: Pungent
pH: No data available
Melting point/freezing point: No data available
Boiling point/range: 82°C/4.3kPa
Flash point: No data available
Flammability or explosive limits:
Lower: No data available
Upper: No data available
Relative density: 0.98
Solubility(ies):
[Water] Very slightly soluble
[Other solvents]
Very soluble: Ether
Slightly soluble: Alcohols

10. STABILITY AND REACTIVITY

Chemical stability: Polymerization may occur under the influences of heat, light or on contact with polymelization initiators such as peroxides etc.
Possibility of hazardous No special reactivity has been reported.
reactions:
Conditions to avoid: Heat, Spark, Open flame, Static discharge, Light
Incompatible materials: Oxidizing agents, Strong acids, Strong bases
Hazardous decomposition Carbon monoxide, Carbon dioxide, Nitrogen oxides (NOx)
products:

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available
Skin corrosion/irritation: No data available
Serious eye No data available
damage/irritation:
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 No data available
potential(BCF):
Mobility in soil
Log Pow: No data available
Soil adsorption (Koc): No data available
Henry's Law No data available
constant(PaM3/mol):

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: 6.1: Toxic substance. Subsidiary risk: 3/8: Flammable liquid/Corrosive. UN-No: 3073
Proper shipping name: Vinylpyridines, stabilized Packing group: II Marine pollutant Y

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.