

MATERIAL SAFETY DATA SHEET

1. Chemical product and company identification

Name: 2,3-Dichloro-4-pyridinecarboxaldehyde

CAS#: 884495-41-4

Catalog Number: BY-P133

Company Identification:

Nanjing Raise Pharmatech Co., Ltd.

6F 29Building, NO.5 Gaoke, Hi-Tech Zone, Nanjing

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2. Hazards identification

Potential Acute Health Effects: Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects: Not available.

Carcinogenic effects: Not available.

Mutagenic effects: Not available.

Teratogenic effects: Not available.

Developmental toxicity: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

3. Composition, information on ingredients

Synonyms: 2,3-Dichloro-4-pyridinecarboxaldehyde

Molecular Formula: C₆H₃Cl₂NO

Molecular Weight: 176

| Catalog Number | Description | Purity |
|----------------|---------------------------------------|--------|
| BY-P133 | 2,3-Dichloro-4-pyridinecarboxaldehyde | NLT98% |

4. First aid measures

Eyes: Flush eyes with plenty of water occasionally lifting the upper and lower lids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water while removing contaminated clothing and shoes.

Ingestion: Get medical aid. Wash mouth out with water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

5. Fire fighting measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressuredemand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a

fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.

Flash Point: Not applicable.

Autoignition Temperature: Not applicable.

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 1; Flammability: 0; Instability: 0

6. Accidental release measures

General Information: Use proper personal protective equipment.

Spills/Leaks: Vacuum or sweep up material and place into suitable disposal container. Avoid generating dusty conditions.

Environmental precautions: Do not let product enter drains.

7. Handling and storage

Handling: Avoid breathing dust, vapor, mist or gas. Avoid contact with eyes, skin.

Storage: Keep container tightly closed in a cool, dry and well-ventilated place.

8. Exposure controls, personal protection

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protective Equipment

Eyes: Wear chemical safety goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Wear appropriate respirators where necessary

9. Physical and chemical properties

| | |
|---------------------|--------------------|
| Appearance | White solid |
| Boiling Point | No data available |
| Melting Point | No data available |
| Solubility in water | Insoluble in water |
| Vapor Pressure | No data available |
| Density | No data available |

10. Stability and reactivity

Chemical Stability: Stable under recommended storage conditions.

Conditions to Avoid: Incompatible materials, dust generation, excess heat.

Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, carbon monoxide, carbon dioxide.

Hazardous Polymerization: Has not been reported.

11. Toxicological information

Maybe toxic by inhalation, in contact with skin and if swallowed.

12. Ecological information

Toxicity: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: No data available

13. Disposal considerations

Waste treatment methods:

Product: Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging: Dispose of as unused product

14. Transport information

DOT (US): Not regulated.

IMDG: Not regulated.

IATA: Not regulated.

15. Regulatory information

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.

16. Additional information

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product

may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

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