Product Identification: 3-Pyridyl acetic acid 0210A01 Div.03 sds 3-Pyridyl acetic acid

Date of issue: September 03, 2013

SDS Code : 0210A01 Div.03 sds 3-Pyridyl acetic acid
Date of Compilation : October 12, 2012
Date of Revision : September 03, 2013
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Revision Number : 01
Version Number : 0210A01 Div.03 sds 3-Pyridyl acetic acid
Supersedes date : October 12, 2012
Supersedes version : 0210A01 Div.03 sds 3-Pyridyl acetic acid
# Safety Data Sheet

As per Globally Harmonized System (GHS)

**Product Identification:** 3-Pyridyl acetic acid  0210A01 Div.03 sds 3-Pyridyl acetic acid

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## SECTION 1.: IDENTIFICATION

<table>
<thead>
<tr>
<th><strong>PRODUCT NAME</strong></th>
<th>3-Pyridyl acetic acid</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAS RN</strong></td>
<td>501-81-5</td>
</tr>
<tr>
<td><strong>EC#</strong></td>
<td>207-928-7</td>
</tr>
<tr>
<td><strong>SYSTEMATIC NAME</strong></td>
<td>3- Pyridylacetic acid</td>
</tr>
<tr>
<td><strong>MOLECULAR FORMULA</strong></td>
<td>C₇H₇NO₂</td>
</tr>
<tr>
<td><strong>STRUCTURAL FORMULA</strong></td>
<td><img src="image" alt="Structural Formula" /></td>
</tr>
</tbody>
</table>

**FACTORY & REGISTERED OFFICE:**
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Product Identification: 3-Pyridyl acetic acid 0210A01 Div.03 sds 3-Pyridyl acetic acid

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Product Uses:
- 3-pyridylacetic acid is used as an intermediate in pharmaceutical industry.

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION
Eye damage/eye irritant: Category 2A
Skin corrosion/irritation: Category 2

Hazard Pictogram: GHS 07
Signal Word: Warning!

HAZARD AND PRECAUTIONARY STATEMENTS:

HAZARD STATEMENTS
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.

PRECAUTIONARY STATEMENTS
Prevention
- P264: Wash clothes thoroughly after handling.
- P280: Wear protective gloves/clothing and eye/face protection.

Response
- P302+P352: IF ON SKIN: Wash with plenty of soap and water.
- P332+P313: If skin irritation occurs: Get medical advice/attention.
- P362: Take off contaminated clothing and wash before reuse.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P337+P313: If eye irritation persists: Get medical advice/attention.

Disposal
- P501: Dispose of contents/container to local/regional/national/international regulations.
SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Chemical</th>
<th>CAS #</th>
<th>EC#</th>
<th>Purity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>3-Pyridyl acetic acid</td>
<td>501-81-5</td>
<td>207-928-7</td>
<td>≥99%</td>
</tr>
</tbody>
</table>

SECTION 4: FIRST AID MEASURES

Key symptoms

**Acute effects:**
- 3-Pyridylacetic acid causes skin, and serious eyes irritation. The toxicological properties of this material have not been fully investigated. Currently it is not categorized as toxic.

**Chronic effects:**
- To the best of our knowledge, the chronic health effects of this product have not been thoroughly investigated.

**FIRST AID:**
- **Eyes:** If in eyes rinse cautiously with water for at least 15 minutes. Remove contact lenses if easy to do so. Continue rinsing. Seek medical attention.
- **Skin:** Immediately take off all contaminated clothing. Wash thoroughly with water for at least 15 minutes. Wash contaminated clothes before reuse. Seek immediate medical attention.
- **Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if you feel unwell. Monitor for respiratory distress. Apply artificial respiration if not breathing. Do not use mouth-to-mouth methods if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Toxic vapours may be released on thermal decomposition including nitrogen oxides, carbon monoxide and cyanide.
- **Ingestion:** If swallowed call a poison center if you feel unwell. Rinse mouth. Do NOT induce vomiting by use of emetics. Seek medical attention.
SECTION 5 :  FIRE-FIGHTING MEASURES

Flash Point: Not available  
Flammability: Not available  

Extinguishing media:
- Appropriate extinguishing media: Dry chemical powder, carbon dioxide, and alcohol resistant foam. Water may also be used. Water can be effective in cooling down the fire-exposed containers and knocking down the vapours. Water jets may be used to flush spills away and dilute the same to non-flammable mixtures fog or alcohol-resistant foam by directing streams to the periphery of the fires to prevent spread.

Special Protective Equipment and Precautions for Fire Fighter:
- Evacuate the area and fight fires from a safe distance.
- If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions or as per locally valid procedures.
- Fire fighters must wear Self Contained Breathing Apparatus (SCBA) and full protective clothing. The chemical is harmful in contact with skin.
- Report any run-off of fire waters contaminated with this chemical as per local and federal procedures applicable.

Unusual fire and explosion hazard:
- Toxic vapors may be released on thermal decomposition including nitrogen oxides, carbon monoxide and cyanide.
- High vapor concentration may result in an explosion hazard.
- Vapors are heavier than air. May travel considerable distance from source and flashback.

SECTION 6 :  ACCIDENTAL RELEASE MEASURES

Minor Spills
- Clean up all spills immediately following relevant Standard Operating Procedures.
- Avoid breathing vapors and contact with skin and eyes.
- Shut off leak source if possible.
- Shut off all possible sources of ignition.
- Wear protective clothing, boots, impervious gloves and safety glasses.
- Wipe up.
- Decontaminate all equipment.
Major Spill

- Alert Emergency Responders and tell them location and nature of hazard.
- Shut off all possible sources of ignition and increase ventilation.
- Wear protective clothing, full boots, impervious gloves, safety glasses and Self Contained Breathing Apparatus (SCBA), as may be deemed appropriate.
- Clear area of personnel and move upwind.
- Stop leaks if possible.
- Prevent, by any means available, spillage from entering drains or water and watercourses.
- Collect recoverable product into labeled containers for recycling, recovery or disposal.
- Contain spill with sand, earth or vermiculite.
- Spread area with lime or absorbent material, and leave for at least 1 hour before washing.
- Clean up all tools and equipment.
- Inform authorities in event of contamination of any public sewers, drains or water bodies.

SECTION 7: HANDLING AND STORAGE

Handling

- Do not breathe vapor or mist.
- Wear protective gloves/clothing and eye/face protection.
- Wash thoroughly after handling.
- Ground and secure containers when dispensing or pouring product.
- Avoid contact with incompatible materials.
- When handling, DO NOT eat, drink or smoke.
- Launder contaminated clothing before re-use.
- If on skin or hair, IMMEDIATELY remove all contaminated clothing and rinse/shower with plenty of water.
- Use in a well ventilated place/Use protective clothing commensurate with exposure levels.

Storage

- Store in a cool, dry and ventilated place.
- Store away from incompatible materials.
- Keep securely closed when not in use.
SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH</th>
<th>OSHA-Final PELs</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-Pyridyl acetic acid</td>
<td>None listed</td>
<td>None listed</td>
<td>None listed</td>
</tr>
</tbody>
</table>

Exposure Controls

- Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits. Local ventilation is usually preferred. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protection:

- Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.
- **Hands**: Wear appropriate protective gloves to prevent skin exposure.
- **Eyes**: Safety goggles/ Chemical Safety glasses and Face shield.
- **Clothing**: Boots and clothing to prevent contact.
- **Respirator**: Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

General Industrial hygiene:

- Immediately change contaminated clothing.
- Apply skin protective barrier cream.
- Wash hands and face after working with the substance.
- Under no circumstances eat or drink at the workplace.
### SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

- Information on basic physical and chemical properties.

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Parameter</th>
<th>Typical value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Appearance</td>
<td>Crystalline White powder</td>
</tr>
<tr>
<td>2.</td>
<td>Odor</td>
<td>Not available</td>
</tr>
<tr>
<td>3.</td>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>4.</td>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>5.</td>
<td>Melting point/Freezing point</td>
<td>161 - 163°C</td>
</tr>
<tr>
<td>6.</td>
<td>Boiling Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>7.</td>
<td>Flash point</td>
<td>Not available</td>
</tr>
<tr>
<td>8.</td>
<td>Evaporation rate (n-BuAc=1)</td>
<td>Not available</td>
</tr>
<tr>
<td>9.</td>
<td>Flammability</td>
<td>Not available</td>
</tr>
<tr>
<td>10.</td>
<td>Upper/lower flammability or Explosive limits</td>
<td>Not available</td>
</tr>
<tr>
<td>11.</td>
<td>Vapor pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>12.</td>
<td>Vapor density (air=1)</td>
<td>Not available</td>
</tr>
<tr>
<td>13.</td>
<td>Relative density</td>
<td>Not available</td>
</tr>
<tr>
<td>14.</td>
<td>Solubility</td>
<td>Not available</td>
</tr>
<tr>
<td>15.</td>
<td>Partition coefficient : n-(Octonol / water)</td>
<td>Not available</td>
</tr>
<tr>
<td>16.</td>
<td>Auto-ignition temperature</td>
<td>Not available</td>
</tr>
</tbody>
</table>
SECTION 10: STABILITY AND REACTIVITY

- **Stability:** Stable under normal temperature and pressures.
- **Conditions to avoid:** Keep away from heat, sparks, flame, high temperature and incompatible chemicals, dust generation, u.v. light, strong oxidants and strong reducing agents.
- **Incompatible chemicals:** Strong oxidizing and reducing agents.
- **Hazardous decomposition:** Thermal decomposition may produce carbon monoxide and oxides of nitrogen, carbon dioxide & nitrogen, Hydrogen chloride, hydrogen cyanide and irritating and toxic fumes.
- **Hazardous Polymerization:** No data available.

SECTION 11: TOXICOLOGICAL INFORMATION

a) **Acute Toxicity:**
   - 3-Pyridylacetic acid causes skin, and serious eyes irritation. The toxicological properties of this material have not been fully investigated. Currently it is not categorized as toxic.

RTECS#: Not listed

Acute Oral, mouse: LD50 = Not available.

b) **Skin irritation/ corrosion**
   - Causes skin irritation.

c) **Serious Eye damage/ irritation**
   - Causes eye irritation.

d) **Respiratory or skin sensitization**
   - No data is available.

e) **Germ cell Mutagenicity**
   - No data is available.

f) **Carcinogenicity**
   - Not listed by NTP, IARC and OSHA.
   - Not present on the EU CMR list.
   - According to information presently available 3-Pyridylacetic acid is not found to be carcinogenic.
g) **Reproductive toxicity**
   - No data is available.

h) **STOT-single exposure**
   - No data is available.

i) **STOT-repeated exposure**
   - No data available.

j) **Aspiration hazard.**
   - No data available.

### SECTION 12: ECOLOGICAL INFORMATION

**Toxicity (Ecotoxicity):**
- The ecotoxicity data based on the experiments for this material is not currently available. Based on the environmental modals the following information can be used to estimate the ecotoxicity.

**Persistence and degradability**
- No information is available.

**Bio accumulative potential(Predicted)**
- BCF = 3.162 (Estimated)
- Log Kow = 0.24 (Estimated).

Based on the Log Kow and Bioconcentration factor value it is expected to have Non bioaccumulative in fish and aquatic organisms and Negligible potential to bioaccumulate.

**Mobility in soil**
- Log Koc = 1.418
- Henry’s Law constant= 5.8X 10^{-11} atm/m^3. Non-volatile from aqueous bodies.
- Log Kow=0.24 Low potential to bioaccumulate.

**Other adverse effects.**
- **Environment Fate:**
  - Based on environmental modeling, this material is not expected to be persistent in the environment and is not expected to bioaccumulate. It also has very negligible sorption in soil. It does not undergo ready biodegradability. Since this is an estimated result, necessary guidelines should be followed before disposing off the material in to the environment.
SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
- Burn in a chemical incinerator equipped with an afterburner and scrubber.
- Dispose of this material in accordance with standard practice for disposal of potentially hazardous materials as required by applicable federal, state or local laws. Note that disposal regulations may also apply to empty containers and equipment rinsates.

SECTION 14: TRANSPORT INFORMATION

- This substance is considered to be Non Hazardous for transport by Air/Rail/Road and Sea and thus Not regulated by IATA/ICAO/ARD/RID/IMO/IMDG.

Environmental hazards
- It is expected that this chemical is not a marine pollutant and is not Harmful to the Aquatic environment.

SECTION 15: REGULATORY INFORMATION

European Union Information

Classification as per Regulation 67/548/EEC: Xi; R36/37/38
- Xi - Irritant.

Risk Phrases:
- R36/37/38: Irritating to eyes, respiratory system and skin.

Safety Phrases:
- S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
- S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Classification (as per CLP Regulation EC No. 1272/2008):
- Hazards Class and Category: Skin Irrit. Cat.2, Eye Irrit. Cat2
- Hazard Statements: H315;H319

US information
- TSCA
  CAS# 501-81-5 is listed on the TSCA 8(b) inventory.
- Health & Safety Reporting List
  None of the chemicals are on the Health & Safety Reporting List.
- Chemical Test Rules
  None of the chemicals in this product are under a Chemical Test Rule.
Safety Data Sheet
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- **Section 12b**
  None of the chemicals are listed under TSCA Section 12b.

- **TSCA Significant New Use Rule**
  None of the chemicals in this material have a SNUR under TSCA.

- **OSHA:**
  None of the chemicals in this product are considered highly hazardous by OSHA.

- **Canada:**
  The substance is listed in NDSL list.

**SECTION 16: OTHER INFORMATION**

Compilation information of safety data sheet
Chemical: 3-Pyridylacetic acid.
CAS #: 501-81-5
File Name: 0210A01 Div.03 sds 3-Pyridylacetic acid.
Revision Number: 00
Date of Issue of SDS: September 03, 2013
Revision Due Date: August, 2015

(a) A key or legend to aberrations and acronyms used in the safety data sheet;
- PBT = Persistent Bio accumulative and Toxic.
- vPvB = Very Persistent and Very Bio accumulative.
- SCBA = Self Contained Breathing Apparatus.
- NIOSH REL = National Institute for Occupational Safety and Health Recommended Exposure Limit.
- OSHA PEL = Occupational Safety and Health Administration Permissible Exposure Limit.
- OELTWA = Occupational Exposure Limit Time Weighted Averages.
- IDLH = Immediately Dangerous to Life or Health.
- UEL = Upper Explosive Limit.
- LEL = Lower Explosive Limit.
- RTECS = Registry of Toxic Effects of Chemical Substances.
- NTP = National Toxicology Program.
- IARC = International Agency for Research on Cancer.
- EPA = Environmental Protection Agency.
- TSCA = Toxic Substances Control Act.
- SARA = Superfund Amendments and Reauthorization Act.
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- DSL/NDSL = Domestic/Non-Domestic Substances List.
- CSR = Chemical Safety Report.
- BCF = Bio Concentration Factor.
- DNEL = Derived No Effect Level.
- PNEC = Predicted No Effect Concentration.
- TLV = Threshold Limit Value.
- ACGIH = American Conference of Governmental Industrial Hygienists.
- REACH = Registration, Evaluation, Authorization and Restriction of Chemicals.
- CLP = Classification, Labeling and Packaging.
- LD / LC = Lethal Doses / Lethal Concentration.
- GHS = Globally Harmonised System.
- ADR = Accord européen relative au transport international de marchandises.
- EmS = Emergency measures on Sea.
- ICAO = International Civil Aviation Organization.
- IATA/DGR = International Air Transport Association/Dangerous Goods Regulation.

(b) Key Literature reference and sources for data

Biographical reference and data sources
- CLP REG (regulation) (EC) no. 1272/2008, last modification by regulation (EC) no. 790/2009
- DIR 67/548/EWG, last modification by DIR 2009/2/EC

Internet
- RTECS
- ESIS

Company’s Declaration:

Information contained in this SDS is believed to be correct but no representation, guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. This SDS shall be used as a guide only. Jubilant Life Sciences Limited makes no warranties expressed or implied of the adequacy of this document for any particular purpose.

(End of Safety Data Sheet)