MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: 3-Chlorocyclobutanecarboxylic acid
CAS Number: 35207-71-7
Catalog Numbers: AK-87095
For R&D use only.
Company Identification:
Ark Pharm, Inc.
1840 Industrial Drive, Suite 280
Libertyville, IL 60048 USA
Tel: 847-367-3680
Fax: 847-367-3681

2. COMPOSITION, INFORMATION ON INGREDIENTS

Molecular Formula: C5H7ClO2
Molecular Weight: 134.561

3. HAZARDS IDENTIFICATION

3.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]
Acute toxicity, Oral (Category 4)
Skin irritation (Category 2)
Eye irritation (Category 2)
Specific target organ toxicity - single exposure (Category 3)
Classification according to EU Directives 67/548/EEC or 1999/45/EC
Harmful if swallowed. Irritating to eyes, respiratory system and skin.

3.2 Label elements
Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram
Signal word Warning
Hazard statement(s)
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
Precautionary statement(s)
P261 Avoid breathing dust.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements
According to European Directive 67/548/EEC as amended

AK-87095 3-Chlorocyclobutanecarboxylic acid
Hazard symbol(s)

R-phrase(s)
R22  Harmful if swallowed.
R36/37/38  Irritating to eyes, respiratory system and skin.

S-phrase(s)
S26  In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37  Wear suitable protective clothing and gloves.

3.3 Other hazards
None

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 and full protective gear.
Extinguishing Media: Use water spray, dry chemical, carbon dioxide or chemical foam.

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.

7. HANDLING AND STORAGE

Handling: Avoid breathing dust, vapor, mist or gas. Avoid contact with eyes, skin.
Storage: Storage temperature: 2 - 4 °C and Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. Use adequate ventilation to keep airborne concentrations low.
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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>No data available.</td>
</tr>
<tr>
<td>Melting Point</td>
<td>No data available.</td>
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<tr>
<td>Solubility in water</td>
<td>Slightly soluble.</td>
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10. STABILITY AND REACTIVITY
Chemical Stability: This product is relatively unstable under normal temperature.
Incompatibilities with Other Materials: Strong oxidizing agents.
Hazardous combustion or Decomposition products: Carbon monoxide, carbon dioxide, and hydrogen chloride.

11. TOXICOLOGICAL INFORMATION
May be toxic by inhalation, in contact with skin and if swallowed.

12. ECOLOGICAL INFORMATION
Not available.

13. DISPOSAL CONSIDERATIONS
Dispose of in a manner consistent with federal, state, and local regulations.

14. TRANSPORT INFORMATION
Not available.

15. REGULATORY INFORMATION
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
Safety, health and environmental regulations/legislation specific for the substance or mixture:
Not available.
Chemical Safety Assessment:
Not available.

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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