

## Material Safety Data Sheet

### *Section 1 - Chemical Product and Company Identification*

MSDS Name: trans-3-Aminocyclobutanecarboxylic acid ethyl ester hydrochloride  
Synonyms:  
Company Identification: MICScientific Ltd.  
Room 4-903, SBI Building 12A  
Dongxin Road, East Lake Hi-tech Development Zone  
Wuhan430074, China  
Telephone Number: +86-27-87861439  
Fax Number: +86-27-87861443  
Emergency Number: +86-27-63836393

### *Section 2 - Product Information*

Catalog Number: MS100573  
CAS Number: 957793-36-1  
MDL Number: Not available  
EC Number: Unlisted  
Molecular Formula:  $C_7H_{13}NO_2.HCl$   
Molecular Weight: 179.64  
Purity: 98.0%

### *Section 3 - Physical and Chemical Properties*

Physical state: Crystalline powder  
Color: White  
Odor: Not available  
Freezing/Melting Point: Not available  
Boiling Point: Not available  
Flash Point: Not available  
Autoignition Temperature: Not available  
Refractive Index ( $n_D^{20}$ ): Not available  
Density: Not available  
Decomposition Temperature: Not available  
Solubility: Soluble in water

### *Section 4 - Hazards Identification*

Eye: Causes eye irritation.  
Skin: Causes skin irritation. Harmful if absorbed through the skin.  
Ingestion: May cause irritation of the digestive tract. Toxic if swallowed.

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.

### ***Section 5 - First Aid Measures***

**Eye:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Get medical aid. Flush skin with plenty of water and soap for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops and persists.

**Ingestion:** Get medical aid immediately. 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. Get medical aid.

### ***Section 6 - Stability and Reactivity***

**Chemical Stability:** Stable under normal temperatures and pressures.

**Materials to avoid:** Strong oxidizing agents.

**Conditions to Avoid:** Incompatible materials.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, nitrogen oxides.

**Hazardous Polymerization:** Will not occur.

### ***Section 7 - Handling and Storage***

**Handling:** Avoid breathing dust, vapor, mist, or gas. Keep container tightly closed. Avoid contact with skin and eyes. Wash thoroughly after handling. Mechanical exhaust required.

**Storage:** Store in a cool, dry well ventilated place away from sources of heat and incompatible substances. Keep container tightly closed when not in use.

### ***Section 8 - Personal Protection***

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

### ***Section 9 - Fire and Explosion Hazard Data***

**General Information:** As in any fire, wear a self-contained breathing apparatus, MSHA/NIOSH (approved or equivalent) and protective clothing to prevent contact with skin and eyes.

**Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or appropriate foam.

### ***Section 10 - Accidental Release Measures***

**General Information:** Use proper personal protective equipment as indicated in Section 8.



**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container.

### ***Section 11 - Toxicological Information***

**RTECS#:** CAS#957793-36-1: Not available

**LD50/LC50:** RTECS: Not available.

**Carcinogenicity:** trans-3-Aminocyclobutanecarboxylic acid ethyl ester hydrochloride - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

### ***Section 12 - Environmental information***

Not available

### ***Section 13 - Disposal Consideration***

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

### ***Section 14 - Transport Information***

	<b>IATA</b>	<b>IMO</b>	<b>RID/ADR</b>
<b>Shipping Name:</b>	Not available	Not available	Not available
<b>Hazard Class:</b>	/	/	/
<b>UN Number:</b>	/	/	/
<b>Packing Group:</b>	/	/	/

### ***Section 15 - Regulatory Information***

#### ***European/International Regulations***

European Labeling in Accordance with EC Directives

Hazard Symbols: Xi

Indication of Danger: Irritant

Risk Phrases:

R 22: Harmful if swallowed.

Safety Phrases:

S 24/25: Avoid contact with skin and eyes.

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

WGK (Water Danger/Protection)

CAS#957793-36-1:3

Canada

CAS#957793-36-1: Not available

#### ***US Federal***

#### ***TSCA***

CAS# 957793-36-1 is not listed on the TSCA Inventory. It is for research and development use only.

***Section 16 - Additional Information***

*MSDS Creation Date:* February 18, 2009  
*Update:* September 21, 2009

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