

Safety Data Sheet (SDS)

Section 1: Identification

1.1 Product Identification

Product Name: RTI-113 hydrochloride

Product Number: Sigma-1492025177

Brand: Sigma

CAS Number: 141807-57-0

EC Number: Not specified

Molecular Formula: $C_{21}H_{23}Cl_2NO_2$

Molecular Weight: 392.3 g/mol

Website: [Sigma Chemical](#)

1.2 Supplier Details

Company Name: Sigma Chemical Co., Ltd.

Address: Room 2-1-2301, Jiahe Xinxing, No.130, Shandong Road, Shibei District, Qingdao City, Shandong Province, China

Phone Number: +8618661891880

Email: chemweb3@foxmail.com

Business Hours:

Monday to Friday: 9:00 AM - 6:00 PM

Saturday: 9:00 AM - 1:00 PM

Sunday: Closed

1.3 Emergency Contact Number

Emergency Contact: +8618661891880

1.4 Recommended Use and Restrictions

Recommended Use: For research and development purposes only. Not for use as a drug, household product, or other.

Section 2: Hazard Identification

2.1 GHS Classification

Acute Toxicity:

Oral: Category 4, H302 (Harmful if swallowed)

Skin corrosion/irritation:

Category 2, H315 (Causes skin irritation)

Serious eye damage/eye irritation:

Category 2A, H319 (Causes serious eye irritation)

Specific Target Organ Toxicity (Single Exposure):

Respiratory tract irritation: Category 3, H335 (May cause respiratory irritation)

2.2 GHS Label Elements

Pictogram: Warning

Signal Word: Warning

Hazard Statements:

H302: Harmful if swallowed

H315: Causes skin irritation

H319: Causes serious eye irritation

H335: May cause respiratory irritation

Precautionary Statements:

Prevention:

P261: Avoid breathing dust/fume/gas/mist/vapours/spray

P264: Wash thoroughly after handling

P270: Do not eat, drink, or smoke when using this product

P280: Wear protective gloves/protective clothing/eye protection/face protection

Response:

P301+P312+P330: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

P302+P352: IF ON SKIN: Wash with plenty of soap and water

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Disposal:

P501: Dispose of contents/container in accordance with local/regional/national/international regulations

2.3 Physical and Chemical Hazards

Physical and Chemical Hazards: Non-flammable. Ignition sources may release hazardous products.

2.4 Health Hazards

Health Hazards:

H302: Harmful if swallowed

H315: Causes skin irritation

H319: Causes serious eye irritation

H335: May cause respiratory irritation

2.5 Environmental Hazards

Environmental Hazards: No environmental hazards identified based on current information.

Section 3: Composition/Information on Ingredients

3.1 Substance

Synonyms: RTI-113 hydrochloride, 8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 3-(4-chlorophenyl)-8-methyl-, phenyl ester, hydrochloride (1:1), (1R,2S,3S,5S)-, RTI(-4229)-113 (2 β -carbophenoxy-3 β -(4-chlorophenyl)tropane) hydrochloride, 3 β -(4-chlorophenyl)tropane-2 β -carboxylic acid phenyl ester hydrochloride

Molecular Formula: C₂₁H₂₃Cl₂NO₂

Molecular Weight: 392.3 g/mol

CAS Number: 141807-57-0

EC Number: Not specified

Hazardous Components:

Component: RTI-113 hydrochloride

Classification:

Acute Toxicity: Category 4 (Oral), H302

Skin corrosion/irritation: Category 2, H315

Serious eye damage/eye irritation: Category 2A, H319

Specific Target Organ Toxicity (Single Exposure): Category 3, H335

Section 4: First Aid Measures

4.1 First Aid Measures

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin Contact: Wash off with soap and plenty of water. Consult a physician.

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most Important Symptoms and Effects

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2.4)

4.3 Immediate Medical Attention and Special Treatment

Medical Treatment: Treat symptomatically.

Section 5: Firefighting Measures

5.1 Extinguishing Media

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

5.2 Specific Hazards Arising from the Chemical

Hazardous Combustion Products: Carbon oxides, nitrogen oxides (NO_x), Hydrogen chloride gas

5.3 Firefighting Precautions

Protective Equipment: Wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective clothing.

Section 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment, and Emergency Procedures

Personal Precautions: Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental Precautions: Do not let product enter drains.

6.2 Methods and Materials for Containment and Clean-Up

Containment: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.3 Reference to Other Sections

Other Sections: See Section 8 for personal protection equipment and Section 13 for disposal information.

Section 7: Handling and Storage

7.1 Handling Precautions

Handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

7.2 Storage Conditions

Storage: Store in a dry, cool, and well-ventilated place. Keep container tightly closed. Keep away from heat, sparks, and flame. Store in a flammable area. Keep container tightly closed in a dry and well-ventilated place. Incompatible materials include strong oxidizing agents, strong acids, strong bases, strong reducing agents, and acid. Recommended storage temperature: -10 ° C.

Section 8: Exposure Controls/Personal Protection

8.1 Control Parameters

Exposure Limits: Contains no substances with occupational exposure limit values.

8.2 Exposure Controls

Engineering Measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.