

Safety Data Sheet (SDS)

According to Regulation (EC) No. 1907/2006 (REACH)

Product: PRL-8-53 (hydrochloride)

CAS number: 51352-87-5

Revision date: 13 March 2026

1. Identification of the substance and of the company

Product identifier

Product name: PRL-8-53 (hydrochloride)

CAS number: 51352-87-5

Synonyms: 3-[2-[methyl(phenylmethyl)amino]ethyl]-benzoic acid, methyl ester, monohydrochloride.

Relevant identified uses

Chemical reference material

Laboratory research and analytical applications

Not intended for food, drug, cosmetic or household use. Cayman states the product is for research use and not for human or veterinary diagnostic or therapeutic use.

Supplier

Rexar

Genestetstraat 3

2394 XK Hazerswoude

Netherlands

Email: info@rexar.nl

Emergency information

Contact local poison control centre.

2. Hazards identification

Classification according to Regulation (EC) No. 1272/2008 (CLP)

Acute toxicity (oral), Category 4

H302 Harmful if swallowed

Acute toxicity (dermal), Category 4
H312 Harmful in contact with skin

Acute toxicity (inhalation), Category 4
H332 Harmful if inhaled

Label elements

Pictogram: **GHS07**
Signal word: **Warning**

Hazard statements

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves / protective clothing.
P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.
P302+P352 If on skin: Wash with plenty of water.
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
P321 Specific treatment (see on this label).
P330 Rinse mouth.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

PBT: Not applicable.
vPvB: Not applicable. Cayman also states there are no additional hazards outside the standard hazard classes covered by the hazard communication system.

3. Composition / information on ingredients

Substance: PRL-8-53 (hydrochloride)

CAS number: 51352-87-5
Molecular formula: **C₁₈H₂₁NO₂ · HCl**
Molecular weight: **319.8 / 319.83 g/mol**
Purity: typically **≥97%**.

4. First aid measures

General advice

Symptoms of poisoning may occur after several hours; medical observation after significant exposure is advisable.

Inhalation

Move person to fresh air. If required, provide artificial respiration. Keep patient warm. Seek medical advice if symptoms persist.

Skin contact

Wash thoroughly with soap and water. Cayman notes the product is generally not irritating to skin, but because of the H312 classification skin exposure should still be treated seriously.

Eye contact

Rinse cautiously with water for several minutes.

Ingestion

Rinse mouth. Immediately call a doctor or poison centre if unwell.

5. Firefighting measures

Suitable extinguishing media

Use fire-fighting measures suitable for the surrounding environment. A solid water stream may be inefficient.

Special hazards

Hazardous decomposition products may include carbon dioxide, carbon monoxide, hydrogen chloride and nitrogen oxides.

Protective equipment

Firefighters should wear respiratory protective equipment / self-contained breathing apparatus where needed.

6. Accidental release measures

Personal precautions

Ensure adequate ventilation. Avoid dust formation and inhalation. Use appropriate protective equipment. Cayman states no special emergency procedures are required, but ventilation and standard PPE remain appropriate.

Environmental precautions

Do not allow product to enter sewers, surface water or ground water.

Cleanup methods

Collect material mechanically and place in an appropriate waste container. Ensure adequate ventilation.

7. Handling and storage

Handling

Ensure good ventilation/exhaustion at the workplace. Avoid dust formation. Cayman specifically mentions thorough dedusting and workplace ventilation.

Storage

Store in accordance with product insert information. Keep container tightly sealed. No special storage-room requirements are listed in the reviewed SDS.

8. Exposure controls / personal protection

Exposure limits

No workplace exposure limits requiring monitoring were listed in the reviewed SDS.

Engineering controls

Use adequate ventilation and follow the handling precautions in section 7.

Personal protective equipment

Eye protection: safety glasses

Gloves: protective gloves

Respiratory protection: respiratory filter device for brief/low exposure; more protective respiratory equipment for intensive or prolonged exposure.

9. Physical and chemical properties

Appearance: solid / crystalline solid

Solubility: DMF 30 mg/ml; DMSO 30 mg/ml; ethanol 30 mg/ml; PBS (pH 7.2) 10 mg/ml

Danger of explosion: product does not present an explosion hazard.

10. Stability and reactivity

Chemical stability

Stable under normal recommended conditions; no decomposition if used according to specifications.

Conditions to avoid

No further relevant information available in the reviewed SDS; avoid unnecessary heat and poor storage practice as standard lab precaution.

Incompatible materials

Oxidizing agents.

Hazardous decomposition

Carbon dioxide

Carbon monoxide

Hydrogen chloride

Nitrogen oxides.

11. Toxicological information

Based on the reviewed supplier SDS, PRL-8-53 (hydrochloride) is classified as:

Acute toxicity (oral), Category 4 – H302

Acute toxicity (dermal), Category 4 – H312

Acute toxicity (inhalation), Category 4 – H332.

Relevant acute toxicity values listed by Cayman:

Oral LD50 **860 mg/kg (mouse)**

Oral LD50 **700 mg/kg (rat).**

Additional notes from the reviewed SDS:

- Skin: no irritant effect

- Eye: no irritating effect
 - Sensitisation: no sensitizing effects known.
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12. Ecological information

Limited ecological data available.

PBT: Not applicable.

vPvB: Not applicable.

Water hazard class 1 (self-assessment): slightly hazardous for water. Do not allow large quantities or undiluted product to reach ground water, water courses or sewer systems.

13. Disposal considerations

Do not dispose of with household garbage. Do not allow product to reach the sewage system. Disposal should be made according to official regulations.

14. Transport information

Not regulated for **DOT, IMDG and IATA** in the reviewed supplier SDS. For your Rexar wording, you can safely phrase this as:

Not classified as dangerous goods according to transport regulations:

ADR (road)

IMDG (sea)

IATA (air).

15. Regulatory information

This product is supplied as a **chemical reference material for laboratory use**.

Classification line used in this draft:

Acute Toxicity Category 4 – H302, H312, H332. This follows the reviewed Cayman supplier SDS.

16. Other information

This Safety Data Sheet provides information for safe handling in laboratory environments.

The product is supplied **for research and analytical use only**. Cayman states it is not for human or veterinary diagnostic or therapeutic use.

The information provided is based on reviewed public supplier safety documentation and chemical identity records and is believed to be accurate, but does not constitute a guarantee of product properties.