

Safety Data Sheet (SDS)

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

Product: Phenibut HCl

CAS number: 3060-41-1

Revision date: 12 March 2026

1. Identification of the substance and of the company

Product identifier

Product name: Phenibut Hydrochloride

CAS number: 3060-41-1

Synonyms: β -Phenyl- γ -aminobutyric acid hydrochloride

Relevant identified uses

Chemical reference material

Laboratory research and analytical applications

Not intended for food, drug, cosmetic or household 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)

Not classified as hazardous.

Label elements

Not classified according to CLP.

Other hazards

This substance should be handled using standard laboratory safety practices. Avoid inhalation, ingestion and contact with skin or eyes.

3. Composition / information on ingredients

Substance: Phenibut Hydrochloride

CAS number: 3060-41-1

Molecular formula: $C_{10}H_{13}NO_2 \cdot HCl$

Molecular weight: 215.68 g/mol

Purity: typically $\geq 98\%$

4. First aid measures

General advice

Remove affected person from exposure and ensure fresh air.

Inhalation

Move person to fresh air. Seek medical advice if symptoms persist.

Skin contact

Wash thoroughly with soap and water.

Eye contact

Rinse cautiously with water for several minutes.

Ingestion

Rinse mouth. Do not induce vomiting. Seek medical advice if necessary.

5. Firefighting measures

Suitable extinguishing media

Water spray
Dry chemical powder
Carbon dioxide
Foam

Special hazards

Combustion may produce nitrogen oxides and hydrogen chloride.

Protective equipment

Firefighters should wear self-contained breathing apparatus.

6. Accidental release measures

Personal precautions

Use appropriate protective equipment. Avoid dust formation.

Environmental precautions

Prevent entry into drains or waterways.

Cleanup methods

Collect material using suitable laboratory procedures and place in appropriate waste container.

7. Handling and storage

Handling

Use standard laboratory safety procedures.
Avoid inhalation of dust and direct contact with skin or eyes.

Storage

Store in a tightly sealed container.
Keep in a cool, dry and well-ventilated area.

8. Exposure controls / personal protection

Exposure limits

No occupational exposure limits established.

Engineering controls

Use adequate ventilation.

Personal protective equipment

Eye protection: safety glasses

Gloves: nitrile or chemical resistant gloves

Respiratory protection: dust mask if required

9. Physical and chemical properties

Appearance: white crystalline powder

Odor: odorless

Solubility: soluble in water

Melting point: approx. 194-202 °C (literature values)

Molecular weight: 215.68 g/mol

10. Stability and reactivity

Chemical stability

Stable under recommended storage conditions.

Conditions to avoid

Excessive heat

Moisture

Hazardous decomposition

Nitrogen oxides

Hydrogen chloride

11. Toxicological information

Limited toxicological data available.

No classification according to CLP based on available information.

Handle as a laboratory chemical and avoid exposure.

12. Ecological information

Limited ecological data available.

Avoid release into the environment.

13. Disposal considerations

Dispose of material in accordance with local regulations.

Chemical waste should be handled by licensed disposal services.

14. Transport information

Not classified as dangerous goods under transport regulations:

ADR (road)

IMDG (sea)

IATA (air)

15. Regulatory information

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

Not classified as hazardous according to Regulation (EC) No. 1272/2008.

16. Other information

This information is provided for laboratory safety and handling purposes.

The product is supplied for **research and analytical use only**.

The information contained in this Safety Data Sheet is believed to be accurate but does not constitute a guarantee of product properties.