

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 19.05.2011

Revision: 18.05.2011

## 1 Identification of the substance/mixture and of the company/undertaking

**Product identifier**  
**Trade name** **5-Bromo-2-fluorobenzylamine hydrochloride**  
**Stock number:** B25176  
**Relevant identified uses of the substance or mixture and uses advised against**  
**Sector of Use** SU24 Scientific research and development  
**Details of the supplier of the safety data sheet**  
**Manufacturer/Supplier:** Alfa Aesar GmbH & Co.KG  
A Johnson Matthey Company  
Benzstrasse 3  
D-76185 Karlsruhe / Germany  
Tel: +49 (0) 721 84007 280  
Fax: +49 (0) 721 84007 300  
Email: tech@alfa.com  
www.alfa.com  
**Informing department:** Product safety department.  
**Emergency telephone number:** Product Safety Department +049 (0) 7275 988687-0 (business hours)  
Carechem 24: +44 (0) 1235 239 670 (Multi-language 24 hour emergency)  
Giftnotruf Universität Mainz / Poison Information Center Mainz  
www.giftinfo.uni-mainz.de Telefon: +49(0)6131/19240

## 2 Hazards identification

**Classification of the substance or mixture**  
**Classification according to Regulation (EC) No 1272/2008**



Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2 H319 Causes serious eye irritation.  
STOT SE 3 H335 May cause respiratory irritation.

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

**Xi; Irritant**

R36/37/38: Irritating to eyes, respiratory system and skin.

**Information concerning particular hazards for human and environment:** Not applicable

**Label elements**

**Labelling according to Regulation (EC) No 1272/2008**

**Hazard pictograms**

The substance is classified and labelled according to the CLP regulation.



GHS07

**Signal word**

**Hazard statements**

**Precautionary statements**

Warning

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P321 Specific treatment (see on this label).  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

## 3 Composition/information on ingredients

**Chemical characterization: Substances**

**(CAS#) Designation:** 5-Bromo-2-fluorobenzylamine hydrochloride  
(CAS# 202865-69-8)

## 4 First aid measures

**Description of first aid measures**

**After inhalation**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

**After skin contact**

Seek immediate medical advice.  
Instantly wash with water and soap and rinse thoroughly.

**After eye contact**

Seek immediate medical advice.  
Rinse opened eye for several minutes under running water. Then consult doctor.

**After swallowing**

Seek immediate medical advice.

## 5 Firefighting measures

**Extinguishing media**

**Suitable extinguishing agents**

**Special hazards arising from the substance or mixture**

CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

Can be released in case of fire:  
Carbon monoxide and carbon dioxide  
Nitrogen oxides (NO<sub>x</sub>)  
Hydrogen fluoride (HF)  
Hydrogen bromide (HBr)  
Hydrogen chloride (HCl)

**Advice for firefighters**

**Protective equipment:**

Wear self-contained breathing apparatus.  
Wear full protective suit.

## 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation

**Environmental precautions:**

**Methods and material for containment and cleaning up:**

Do not allow material to be released to the environment without proper governmental permits.  
Ensure adequate ventilation.

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Trade name **5-Bromo-2-fluorobenzylamine hydrochloride****Reference to other sections**

See Section 7 for information on safe handling  
See section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.

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**7 Handling and storage****Handling**  
**Precautions for safe handling**

Keep containers tightly sealed.  
Store in cool, dry place in tightly closed containers.  
Ensure good ventilation/exhaustion at the workplace.

**Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

**Conditions for safe storage, including any incompatibilities****Storage**  
**Requirements to be met by storerooms and containers:**  
**Information about storage in one common storage facility:**  
**Further information about storage conditions:**

No special requirements.  
Store away from oxidizing agents.  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed containers.

**8 Exposure controls/personal protection****Additional information about design of technical systems:**

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

**Control parameters**  
**Components with critical values that require monitoring at the workplace:**  
**Additional information:**

Not required.  
No data

**Exposure controls**  
**Personal protective equipment**  
**General protective and hygienic measures**

The usual precautionary measures should be adhered to in handling the chemicals.  
Keep away from foodstuffs, beverages and food.  
Instantly remove any soiled and impregnated garments.  
Wash hands during breaks and at the end of the work.  
Avoid contact with the eyes and skin.  
Use breathing protection with high concentrations.  
Check protective gloves prior to each use for their proper condition.  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

**Breathing equipment:**  
**Protection of hands:**  
**Material of gloves**

Safety glasses  
Face protection  
Protective work clothing.

**Eye protection:****Body protection:****9 Physical and chemical properties****Information on basic physical and chemical properties****General Information****Appearance:**

**Form:** Solid.  
**Smell:** Not determined  
**Odour threshold:** Not determined.

**pH-value:** Not applicable.**Change in condition**

**Melting point/Melting range:** 221-226°C  
**Boiling point/Boiling range:** Not determined  
**Sublimation temperature / start:** Not determined

**Flash point:** Not applicable**Inflammability (solid, gaseous)** Not determined.**Ignition temperature:** Not determined**Decomposition temperature:** Not determined**Self-inflammability:** Not determined.**Danger of explosion:** Product is not explosive.**Critical values for explosion:**

**Lower:** Not determined  
**Upper:** Not determined

**Steam pressure:** Not applicable.

**Density** Not determined  
**Relative density** Not determined.  
**Vapour density** Not applicable.  
**Evaporation rate** Not applicable.

**Segregation coefficient (n-octanol/water):** Not determined.**Viscosity:**

**dynamic:** Not applicable.  
**kinematic:** Not applicable.  
**Other information** No further relevant information available.

**10 Stability and reactivity****Reactivity**  
**Chemical stability**  
**Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

**Possibility of hazardous reactions**

No dangerous reactions known

**Incompatible materials:**

Oxidizing agents

**Hazardous decomposition products:**

Carbon monoxide and carbon dioxide  
Nitrogen oxides (NOx)  
Hydrogen fluoride

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Trade name **5-Bromo-2-fluorobenzylamine hydrochloride**Hydrogen bromide  
Hydrogen chloride (HCl)

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**11 Toxicological information**

Information on toxicological effects

Acute toxicity:

Primary irritant effect:

on the skin:

on the eye:

Sensitization:

Additional toxicological information:

Irritant for skin and mucous membranes.

Irritant effect.

No sensitizing effect known.

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

**12 Ecological information**

Toxicity

Aquatic toxicity:

Persistence and degradability

Behaviour in environmental systems:

Bioaccumulative potential

Mobility in soil

Additional ecological information:

General notes:

No further relevant information available.

No further relevant information available.

No further relevant information available.

No further relevant information available.

Water hazard class 1 (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Do not allow material to be released to the environment without proper governmental permits.

Results of PBT and vPvB assessment

PBT:

vPvB:

Other adverse effects

Not applicable.

Not applicable.

No further relevant information available.

**13 Disposal considerations**

Waste treatment methods

Recommendation

Consult state, local or national regulations for proper disposal.

Hand over to disposers of hazardous waste.

Must be specially treated under adherence to official regulations.

Uncleaned packagings:

Recommendation:

Disposal must be made according to official regulations.

**14 Transport information**

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)

ADR/RID-GGVS/E Class:

None

Maritime transport IMDG/GGVSea:

IMDG/GGVSea Class:

None

Marine pollutant:

No

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class:

None

Special precautions for user

Not applicable.

Transport/Additional information:

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not dangerous according to the above specifications.

Not applicable.

**15 Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms

The substance is classified and labelled according to the CLP regulation.



GHS07

Signal word

Warning

Hazard statements

H315 Causes skin irritation.

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H335 May cause respiratory irritation.

Precautionary statements

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

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

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P321 Specific treatment (see on this label).

P405 Store locked up.

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

National regulations

Information about limitation of use:

For use only by technically qualified individuals.

Employment restrictions concerning young persons must be observed.

Water hazard class:

Chemical safety assessment:

Water hazard class 1 (Self-assessment): slightly hazardous for water.

A Chemical Safety Assessment has not been carried out.

**16 Other information**

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing data specification sheet: Health, Safety and Environmental Department.

Contact:

Zachariah C. Holt

Global EHS Manager

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

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ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
CAS: Chemical Abstracts Service (division of the American Chemical Society)

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