

according to UK REACH Regulation

Z-DAB*HCI

Revision date: 11.03.2019

Product code: ZNN1047

Page 1 of 8

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Z-DAB*HCI

Further trade names

N1-Benzyloxycarbonyl-1,4-diaminobutane hydrochloride Benzyl N-(4-aminobutyl)carbamate hydrochloride Benzyl (4-aminobutyl)carbamate hydrochloride CAS No: 18807-73-3 EC No: 623-743-8

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Laboratory chemical. Manufacture of the substance.

Uses advised against

Do not use for private purposes (household).

1.3. Details of the supplier of the safety data sheet

Company name:	Iris Biotech GmbH	
Street:	Adalbert-Zoellner-Straße 1	
Place:	D-95615 Marktredwitz, Germany	
Post-office box:	568	
	D-95605 Marktredwitz, Germany	
Telephone:	+49 9231 97121 0	Telefax: +49 9231 97121 99
e-mail:	info@iris-biotech.de	
Contact person:	Compliance Department	Telephone: +49 9231 97121 0
e-mail:	sds@iris-biotech.de	
Internet:	www.iris-biotech.de	
Responsible Department:	Only available during office hours.	
1.4. Emergency telephone	+49 (0)89 19240 (POISON CENTER I	Munich: 24 h)
number:		

Further Information

Emergency telephone: 24 h

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Hazard categories: Skin corrosion/irritation: Skin Irrit. 2 Serious eye damage/eye irritation: Eye Irrit. 2 Specific target organ toxicity - single exposure: STOT SE 3 Hazard Statements: Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling Z-DAB*HCI

Signal word:

Warning



according to UK REACH Regulation

Revision date: 11.03.2019

Product code: ZNN1047

Page 2 of 8





Hazard statements

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

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing
	protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Additional advice on labelling

Warning - substance not yet tested completely.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization

Benzyl (4-aminobutyl)carbamate hydrochloride	
Sum formula:	C12H18N2O2*HCI
Molecular weight:	258,74 g/mol

Hazardous components

CAS No	Chemical name		Quantity	
	EC No	Index No	REACH No	
	GHS Classification	-	·	
18807-73-3	Z-DAB*HCI			<= 100 %
	623-743-8			
	Skin Irrit. 2, Eye Irrit. 2, STOT SE	3; H315 H319 H335		

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. In all cases of doubt, or when symptoms persist, seek medical advice.



according to UK REACH Regulation

Z-DAB*HCI

Revision date: 11.03.2019

Product code: ZNN1047

Page 3 of 8

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person or a person with cramps.

In all cases of doubt, or when symptoms persist, seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Water spray. alcohol resistant foam. Dry extinguishing powder. Carbon dioxide (CO2). Sand.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Non-flammable. Thermal decomposition can lead to the escape of irritating gases and vapours. In case of fire may be liberated: Carbon dioxide (CO2). Carbon monoxide (CO). Nitrogen oxides (NOx). Hydrogen chloride (HCI)

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Usual measures for fire prevention.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

Provide adequate ventilation. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment. In case of fire: Evacuate area.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Other information

Take up mechanically, placing in appropriate containers for disposal. Avoid dust formation. Clear contaminated areas thoroughly.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

according to UK REACH Regulation

Z-DAB*HCI

Revision date: 11.03.2019

Product code: ZNN1047

Page 4 of 8

7.1. Precautions for safe handling

Advice on safe handling

Provide adequate ventilation. Avoid dust formation. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothes.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Avoid contact with skin, eyes and clothes. Provide adequate ventilation. When using do not eat, drink or smoke. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep container tightly closed in a cool, well-ventilated place. Handle and store contents under inert gas. Protect from moisture. storage temperature: $+2^{\circ}C - +8^{\circ}C$

Hints on joint storage

No special measures are necessary.

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls

Appropriate engineering controls

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection.

Hand protection

Wear suitable gloves.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Environmental exposure controls

Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:

solid



according to UK REACH Regulation

	Diotech		
		Z-DAB*HCI	
Revision da	te: 11.03.2019	Product code: ZNN1047	Page 5 of
Colour:		white / beige	
Odour:		No data available	
Changes	s in the physical state		
Melting p	point/freezing point:	190 - 200 °C	
boiling ra	-	not determined	
	ion point:	not determined	
Softening	g point:	not determined	
Flash po	int:	No data available	
Flamma	-		
Solid Gas:	l/liquid:	not determined	
-		not applicable	
-	/e properties ata available		
Lower ex	plosion limits:	not determined	
Upper ex	plosion limits:	not determined	
Auto-igni	ition temperature:	not determined	
	tion temperature		
Solid Gas:		not determined not applicable	
	osition temperature:	not determined	
		not determined	
	g properties ata available		
pH-Value	e:	not determined	
Water so	•	No data available	
	y in other solvents letermined		
Partition	coefficient n-octanol/water:	not determined	
Vapour p	pressure:	not determined	
Vapour p	pressure:	not determined	
Density:		not determined	
Relative	vapour density:	No data available	
<u>9.2. Other in</u>	nformation		
	t ion with regard to physical I ng combustion:	h azard classes No data available	
	fety characteristics		
	separation test:	No data available	
Solvent	content:	No data available	
Solid cor	ntent:	not determined	
Further	Information		

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

8



according to UK REACH Regulation

Z-DAB*HCI

Revision date: 11.03.2019

Product code: ZNN1047

Page 6 of 8

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Protect from moisture.

Keep away from heat.

10.5. Incompatible materials

Oxidizing agents, strong.

10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours. In case of fire may be liberated: Carbon dioxide (CO2). Carbon monoxide (CO). Nitrogen oxides (NOx). Hydrogen chloride (HCI)

Further information

In case of fire: See chapter 5.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

No data available

Sensitising effects

No data available

Carcinogenic/mutagenic/toxic effects for reproduction

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Specific effects in experiment on an animal

No data available

Practical experience

No data available

Further information

RTECS: No data available

Caution! To the best of our knowledge the toxicological properties of this material have not been thoroughly investigated.

SECTION 12: Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.7. Other adverse effects

Warning - substance not yet tested completely.

according to UK REACH Regulation

Z-DAB*HCI

Revision date: 11.03.2019

Product code: ZNN1047

Page 7 of 8

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal. Handle contaminated packages in the same way as the substance itself.

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.2. UN proper shipping name:	No dangerous good in sense of these transport regulations.
Inland waterways transport (ADN)	
14.2. UN proper shipping name:	No dangerous good in sense of these transport regulations.
Marine transport (IMDG)	
14.2. UN proper shipping name:	No dangerous good in sense of these transport regulations.
Air transport (ICAO-TI/IATA-DGR)	
14.2. UN proper shipping name:	No dangerous good in sense of these transport regulations.
14.5. Environmental hazards	
ENVIRONMENTALLY HAZARDOUS:	No
14.6. Special precautions for user No information available.	

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU regulatory information Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)
Additional information	
Safety Data Sheet according to Regul	ation (EC) No. 1907/2006 (REACH)
National regulatory information	
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).
Water hazard class (D):	3 - highly hazardous to water
15.2. Chemical safety assessment	
For this substance a chemical safety a	assessment has not been carried out.

SECTION 16: Other information



according to UK REACH Regulation

Z-DAB*HCI

Revision date: 11.03.2019

Product code: ZNN1047

Page 8 of 8

Relevant H and EUH statements (number and full text)

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

Further Information

Warning - substance not yet tested completely.

The product is intended for research, analysis and scientific education.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.