

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 15.07.2010

Revision: 15.07.2010

## 1 Identification of substance

### Product details

Trade name

**3-Chlorobenzylamine**

Stock number:

A14078, L05968

Manufacturer/Supplier:

Alfa Aesar GmbH & Co.KG  
Benzstrasse 3  
D-76185 Karlsruhe / GermanyE-mail: gcat@matthey.com  
www.alfa-chemcat.com

Informing department:

Product safety department.

Emergency information:

Giftnotruf Universität Mainz / Poison Information Center Mainz  
www.giftinfo.uni-mainz.de Telefon: +49(0)6131/19240

## 2 Hazards identification

Hazard designation:



C Corrosive

Information pertaining to particular dangers  
for man and environment  
GHS label elements

R 34 Causes burns.

**Danger**

Prevention:

Response:

H314 - Causes severe skin burns and eye damage.

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

P309 IF exposed or if you feel unwell:

P310 Immediately call a POISON CENTER or doctor/physician.

## 3 Composition/information on ingredients

Chemical characterization:

3-Chlorobenzylamine (CAS# 4152-90-3)

Designation: (CAS#)

Identification number(s):

223-985-0

EINECS Number:

## 4 First aid measures

General information

Instantly remove any clothing soiled by the product.

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.

After swallowing

Rinse opened eye for several minutes under running water. Then consult doctor.

Seek immediate medical advice.

## 5 Fire fighting measures

Suitable extinguishing agents

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

Special hazards caused by the material, its  
products of combustion or flue gases:

Can be released in case of fire:

Carbon monoxide and carbon dioxide

Hydrogen chloride (HCl)

Nitrogen oxides (NOx)

Possibly Hydrogen cyanide (HCN)

Wear self-contained breathing apparatus.

Wear full protective suit.

Protective equipment:

## 6 Accidental release measures

Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away.

Measures for environmental protection:

Ensure adequate ventilation

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

Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

See Section 7 for information on safe handling

See section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

Additional information:

## 7 Handling and storage

Handling

Information for safe handling:

Handle under dry protective gas.

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.

Storage

Requirements to be met by storerooms and  
containers:

No special requirements.

Information about storage in one common  
storage facility:

Store away from oxidizing agents.

Store away from air.

Do not store together with acids.

Further information about storage  
conditions:

Store under dry inert gas.

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

Store in a locked cabinet or with access restricted to technical experts or their assistants.

This product is air sensitive.

## 8 Exposure controls and 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.

Components with critical values that require  
monitoring at the workplace:

Not required.

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<b>Additional information:</b>	No data	(Contd. of page 1)
<b>Personal protective equipment</b>	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. Face protection Safety glasses Full face protection Protective work clothing.	
<b>General protective and hygienic measures</b>		
<b>Breathing equipment:</b>		
<b>Eye protection:</b>		
<b>Body protection:</b>		

**9 Physical and chemical properties:**

<b>General Information</b>		
<b>Form:</b>	Liquid	
<b>Colour:</b>	Colourless	
<b>Smell:</b>	Amine-like	
<b>Change in condition</b>		
<b>Melting point/Melting range:</b>	Not determined	
<b>Boiling point/Boiling range:</b>	226°C	
<b>Sublimation temperature / start:</b>	Not determined	
<b>Flash point:</b>	98°C	
<b>Ignition temperature:</b>	Not determined	
<b>Decomposition temperature:</b>	Not determined	
<b>Danger of explosion:</b>	Product is not explosive.	
<b>Critical values for explosion:</b>		
<b>Lower:</b>	Not determined	
<b>Upper:</b>	Not determined	
<b>Steam pressure:</b>	Not determined	
<b>Density at 20°C</b>	1.159 g/cm <sup>3</sup>	
<b>Solubility in / Miscibility with</b>		
<b>Water:</b>	Not miscible or difficult to mix	

**10 Stability and reactivity**

<b>Thermal decomposition / conditions to be avoided:</b>	No decomposition if used and stored according to specifications. Oxidizing agents Air Carbon dioxide Acids	
<b>Materials to be avoided:</b>		
<b>Dangerous reactions:</b>		
<b>Dangerous products of decomposition:</b>	No dangerous reactions known Carbon monoxide and carbon dioxide Hydrogen chloride (HCl) Nitrogen oxides (NOx) Possibly Hydrogen cyanide (HCN)	

**11 Toxicological information**

<b>Acute toxicity:</b>	Corrosive effect on skin and mucous membranes. Strong corrosive effect. No sensitizing effect known. Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach. 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.	
<b>Primary irritant effect:</b>		
<b>on the skin:</b>		
<b>on the eye:</b>		
<b>Sensitization:</b>		
<b>Additional toxicological information:</b>		


**12 Ecological information:**

<b>Additional ecological information:</b>	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.	
<b>General notes:</b>		

**13 Disposal considerations**

<b>Product:</b>	Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal.	
<b>Recommendation</b>		
<b>Uncleaned packagings:</b>	Disposal must be made according to official regulations.	
<b>Recommendation:</b>		

**14 Transport information**

<b>Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)</b>		
		
<b>ADR/RID-GGVS/E Class:</b>	8 (C7) Corrosive substances.	
<b>Kemler Number:</b>	80	
<b>UN-Number:</b>	2735	
<b>Packaging group:</b>	III	
<b>Label</b>	8	
<b>Designation of goods:</b>	2735 AMINES, LIQUID, CORROSIVE, N.O.S. (3-Chlorobenzylamine)	
<b>Limited quantities (LQ)</b>	LQ7	

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Transport category 3  
Tunnel restriction code E

Maritime transport IMDG/GGVSea:



IMDG/GGVSea Class: 8  
UN Number: 2735  
Label 8  
Packaging group: III  
Marine pollutant: No  
Segregation groups Alkalies  
Correct technical name: AMINES, LIQUID, CORROSIVE, N.O.S. (3-Chlorobenzylamine)

Air transport ICAO-TI and IATA-DGR:



ICAO/IATA Class: 8  
UN/ID Number: 2735  
Label 8  
Packaging group: III  
Correct technical name: AMINES, LIQUID, CORROSIVE, N.O.S. (3-Chlorobenzylamine)

UN "Model Regulation":  
UN2735, AMINES, LIQUID, CORROSIVE, N.O.S., 8, III

## 15 Regulatory information

Designation according to EC guidelines:

Code letter and hazard designation of product:



C Corrosive

Risk phrases: 34 Causes burns.

Safety phrases: 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

National regulations

Information about limitation of use: Employment restrictions concerning young persons must be observed.  
For use only by technically qualified individuals.

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

## 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 Holt

Abbreviations and acronyms: 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)  
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  
EINECS: European Inventory of Existing Commercial Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)

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