

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



4-tert-Butylbenzylamine

Version 2.3 / REG_EU
Revision Date: 01.03.2018

Specification: 162012
Material no.:

Date of first issue: 27.02.2008
Print Date: 02.03.2018

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

1.1 Product identifier

Trade name : 4-tert-Butylbenzylamine
Registration number : if available listed in Chapter. 3
CAS-No. : 39895-55-1
EC-No. : 254-681-6

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

Use of the Sub-
stance/Mixture : Raw material for industrial use

1.3 Details of the supplier of the safety data sheet

Company : AlzChem Trostberg GmbH
Dr.-Albert-Frank-Str. 32
83308 Trostberg, Germany
Telephone : +49 8621 86-3351
E-mail address of person
responsible for the SDS : alz-pst@alzchem.com

1.4 Emergency telephone number

Emergency telephone num-
ber : +49 8621 86-2776
AlzChem Trostberg GmbH, Fire Brigade

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin corrosion, Category 1B H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1 H318: Causes serious eye damage.
Chronic aquatic toxicity, Category 3 H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.

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H412 Harmful to aquatic life with long lasting effects.
EUH071 Corrosive to the respiratory tract.

Precautionary statements :

Prevention:

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.

2.3 Other hazards

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out

|| Caution - substance not yet tested completely.
|| When heated, formation of flammable or explosive vapour/air mixtures possible.

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name : 4-tert-butylbenzylamine
Chemical nature : organic compounds
aromatics

Hazardous components

Chemical name	CAS-No. EC-No.	Concentration (% w/w)
4-tert-butylbenzylamine	39895-55-1 254-681-6	>= 99,2

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : If exposed or in case of symptoms caused by eye or skin contact, inhalation or swallowing, consult a physician.
Remove contaminated or soaked clothing immediately and dispose of safely.

If inhaled : Bring affected person outside and ensure that he/she is comfortable.
If breathing difficulties occur:
Monitor breathing, give oxygen if necessary.

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- In case of skin contact : Wash off immediately with soap and plenty of water.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.
Remove contact lenses if this can be easily done.
Immediate further treatment in ophthalmic hospital/ ophthalmologist.
- If swallowed : Do NOT induce vomiting.
Have the mouth rinsed with water.
Drink 1 or 2 glasses of water.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : To the best of our knowledge, experiences about acute or chronic health effects are not available.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : No specific antidote known.
Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Water spray, foam, CO₂, dry powder.
- Unsuitable extinguishing media : high volume water jet

5.2 Special hazards arising from the substance or mixture

- Hazardous combustion products : Carbon oxides
Nitrogen oxides (NO_x)

5.3 Advice for firefighters

- Special protective equipment for firefighters : In the case of fire, wear respiratory protective equipment independent of surrounding air and chemical protective suit.
- Further information : In case of fire cool containers or take them to a safe place.
Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Wear personal protective equipment; see section 8.
Ensure adequate ventilation.

6.2 Environmental precautions

- Environmental precautions : Product or extinguishing water with product must not be al-

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lowed to enter soil, sewers or natural bodies of water.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Ventilate room thoroughly
Remove all sources of ignition.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice.
Provide sufficient ventilation and exhaust at the workplace.

Advice on protection against fire and explosion : Take precautionary measures against static charges, keep away from sources of ignition.

Hygiene measures : Do not inhale vapours / aerosols. Contact with skin, eyes and clothes must be strictly avoided Remove contaminated or saturated clothing immediately and dispose of safely. Do not eat, drink or smoke while working. Wash hands, and/or face before breaks and when workday is finished. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Further information on storage conditions : Keep tightly closed in a dry and cool place. Protect from the action of light.

Advice on common storage : Store separately from oxidants
Do not store near acids.

Storage class (TRGS 510) : 8A, Combustible, corrosive hazardous materials

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

No substance-specific limiting value being known.

8.2 Exposure controls

Personal protective equipment

Eye protection : close-fitting protective goggles (e.g. closed goggles)

Hand protection
Material : Butyl-rubber, Recommendation: Butoject 898

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Glove thickness	:	0,7 mm
Manufacturer	:	Kächele-Cama Latex GmbH (KCL), Germany
Material	:	Fluorinated rubber (Viton), Recommendation: Vitoject 890
Glove thickness	:	0,7 mm
Manufacturer	:	Kächele-Cama Latex GmbH (KCL), Germany
Remarks	:	Breakthrough time is not determined for the product. Change gloves often!
Skin and body protection	:	Protective clothing If intensive contact with the hazardous material cannot be avoided with certainty, order (depending on the hazard involved) additional protective measures for example chemical protective suit.
Respiratory protection	:	Do not inhale gases, vapours, aerosols or dust - use respiratory protection equipment. Respirator with ABEK combination filter

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	colourless
Odour	:	slightly like amines
Boiling point/boiling range	:	235 - 236 °C (1.013 hPa) literature 113 °C (6,67 hPa) literature
Flash point	:	107 °C Method: closed cup
Vapour pressure	:	0,02 Pa (25 °C)
Density	:	0,930 g/cm ³ (20 °C)
Solubility(ies)	:	
Water solubility	:	slightly soluble
Solubility in other solvents	:	completely soluble Solvent: Ethanol completely soluble Solvent: Benzene ca. 10 g/l

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Solvent: Acetone

Partition coefficient: n-
octanol/water : log Pow: 5,3

9.2 Other information

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

See section 10.3

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No hazardous reactions are known if properly handled and stored.

10.4 Conditions to avoid

Conditions to avoid : Pronounced heat up.

10.5 Incompatible materials

Materials to avoid : Acids
Oxidizing agents
oxygen / air.

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions.
see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Components:

4-tert-butylbenzylamine:

Acute oral toxicity : Remarks: no data available

Skin corrosion/irritation

Product:

Assessment: Causes severe burns.

Components:

4-tert-butylbenzylamine:

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Assessment: Causes severe burns.
Remarks: no data available

Serious eye damage/eye irritation

Product:

Assessment: Causes serious eye damage.

Components:

4-tert-butylbenzylamine:

Assessment: Causes serious eye damage.
Remarks: no data available

Respiratory or skin sensitisation

Product:

Assessment: Corrosive to the respiratory tract.

Components:

4-tert-butylbenzylamine:

Remarks: no data available

Germ cell mutagenicity

Components:

4-tert-butylbenzylamine:

Germ cell mutagenicity- Assessment : no data available

Carcinogenicity

Components:

4-tert-butylbenzylamine:

Carcinogenicity - Assessment : no data available

Reproductive toxicity

Components:

4-tert-butylbenzylamine:

Reproductive toxicity - Assessment : no data available

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STOT - single exposure

Components:

4-tert-butylbenzylamine:

Remarks: no data available

STOT - repeated exposure

Components:

4-tert-butylbenzylamine:

Remarks: no data available

Repeated dose toxicity

Product:

Components:

4-tert-butylbenzylamine:

Remarks: no data available

Further information

Product:

Remarks: No data is available on the product itself.
Other dangerous properties can not be excluded.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Components:

4-tert-butylbenzylamine:

Toxicity to fish : (Oryzias latipes): 15,2 mg/l
Exposure time: 48 h
Test Type: LC50
Remarks: literature

12.2 Persistence and degradability

Components:

4-tert-butylbenzylamine:

Biodegradability : Remarks: Not readily biodegradable.

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12.3 Bioaccumulative potential

Components:

4-tert-butylbenzylamine:

Partition coefficient: n-
octanol/water : log Pow: 5,3

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

12.6 Other adverse effects

Product:

Additional ecological information : No further ecotoxicological data are available.
Prevent uncontrolled release in the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Must be brought to an adequate waste treatment facility, in conformity with applicable waste disposal regulations.

Contaminated packaging : Packaging, that can not be reused after cleaning must be disposed or recycled in accordance with all federal, national and local regulations.

SECTION 14: Transport information

14.1 UN number

ADR : UN 2735
RID : UN 2735
IMDG : UN 2735
IATA : UN 2735

14.2 UN proper shipping name

ADR : AMINES, LIQUID, CORROSIVE, N.O.S.
(4-tert-Butylbenzylamine)
RID : AMINES, LIQUID, CORROSIVE, N.O.S.
(4-tert-Butylbenzylamine)

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IMDG : AMINES, LIQUID, CORROSIVE, N.O.S.
(4-tert-Butylbenzylamine)

IATA : Amines, liquid, corrosive, n.o.s.
(4-tert-Butylbenzylamine)

14.3 Transport hazard class(es)

ADR : 8

RID : 8

IMDG : 8

IATA : 8

14.4 Packing group

Remarks : Keep separate from foodstuffs, luxury foods, feedstuffs

ADR

Packing group : III
Classification Code : C7
Hazard Identification Number : 80
Labels : 8
Tunnel restriction code : (E)
Remarks : Keep separate from foodstuffs, luxury foods, feedstuffs

RID

Packing group : III
Classification Code : C7
Hazard Identification Number : 80
Labels : 8
Remarks : Keep separate from foodstuffs, luxury foods, feedstuffs

IMDG

Packing group : III
Labels : 8
EmS Code : F-A, S-B
Remarks : Keep separate from acids.
Keep separate from foodstuffs, luxury foods, feedstuffs

IATA (Cargo)

Packing instruction (cargo aircraft) : 856
Packing instruction (LQ) : Y841
Packing group : III
Labels : Corrosives
Remarks : ERG-Code 8L
Keep separate from foodstuffs, luxury foods, feedstuffs

IATA (Passenger)

Packing instruction (passenger aircraft) : 852
Packing instruction (LQ) : Y841
Packing group : III

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Labels : Corrosives
Remarks : ERG-Code 8L

14.5 Environmental hazards

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

Remarks : Keep separate from foodstuffs, luxury foods, feedstuffs

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

The components of this product are reported in the following inventories:

EINECS : Listed

TCSI : Listed

ISHL : Listed

15.2 Chemical safety assessment

Registration of the substance (as per the REACH Ordinance) is not required until after 2018.

SECTION 16: Other information

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Mari-

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time Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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