Safety Data Sheet

According to 1907/2006/EC, Article 31

Revision: 07/10/2023

- 1. Identification of the substance/mixture and of the company/undertaking
 - **Product Identifier** BDMA, Benzyldimethylamine
 - Article Number 21365
 - **CAS Number** 103-83-3
 - **EC Number** 203-149-1
 - **Index Number** 612-074-00-7
 - Relevant identified uses of the substance or mixture and uses advised against No further relevant information available
 - Application of the substance/preparation: Accelerator used in epoxy resins for microscopy.
 - Details of the supplier of the safety data sheet

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- 2. Hazards identification
 - Classification of the substance or mixture
 - Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapor



GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage

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\sim	GHS07

• G11507		
Acute Tox. 4	H302	Harmful if swallowed.
Acute Tox. 4	H312	Harmful in contact with skin.
Acute Tox. 4	H332	Harmful if inhaled.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

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

Label elements

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

The product has been classified and labelled according to the CLP regulation.

Hazard pictograms







GHS02

GHS05

GHS07

Signal word Danger

Hazard statements

H226 Flammable liquid and vapor

H302+H313+H332 Harmful if swallowed, if in contact with skin or if inhaled

H314 Causes severe skin burns and eye damage

H412 Harmful to aquatic life with long lasting effects

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower.

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 or doctor/physician.

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 No. Description

103-83-3 benzyldimethylamine

Identification number(s): EC number: 302-149-1

Index number: 612-074-00-7

4. First aid measures

Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Supply fresh air or oxygen; Keep patient warm and call for doctor if necessary.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact:

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

After swallowing:

Call for medical help immediately.

Drink plenty of water and provide fresh air

Information for doctor:

Most important symptoms and effects, both acute and delayed

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5. Firefighting measures

Extinguishing media

Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet.

Special hazards arising from the substance or mixture. No further information available.

Advice for firefighters

Protective equipment: Mouth respiratory protective device.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty water.

Do not allow to enter sewers and surface or ground waters.

Methods and material for containment and cleaning up:

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

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

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 disposal information.

7. Handling and storage

Handling:

Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

Information about fire and explosion protection: Keep ignition sources away. Do not smoke.

Protect against electrostatic discharges.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep container tightly sealed.

Special end use(s): No further relevant information available.

8. Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

Control parameters

Ingredients with limit values that require monitoring at the workplace: Not required.

Additional information: The lists valid during the making were used as basis.

Exposure controls:

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/the substance/the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves

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.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection

Tightly sealed goggles

9. Physical and chemical properties

Information on basic physical and chemical properties

General information

Appearance:

Form: Liquid
Color: Colorless
Odor: Characteristic
Odor threshold: Not determined
pH value: Not determined

Change in condition

Melting point/Melting range: -75°C
Boiling point/Boiling range: 185°C
Flash point: 54°C

Flammability: Not applicable

Ignition temperature:

Decomposition temperature: Not determined **Self-igniting:** Not determined

Danger of explosion: Product does not present an explosion hazard. However,

formation of explosive air/vapor mixtures are possible.

Explosion limits:

Lower: Not determined Upper: Not determined

Vapor pressure at 20°C:

Density at 20°C:

Relative density:

Vapor density:

Not determined

Not determined

Not determined

Not determined

Solubility in/

Miscibility with water: Not miscible or is difficult to mix.

Partition coefficient: Not determined

Viscosity:

Dynamic: Not determined **Kinematic**: Not determined

Other information: No further relevant information available

10. **Stability and reactivity**

Reactivity

Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Possibility of hazardous reactions: No dangerous reactions known.

Conditions to avoid: No further relevant information available. **Incompatible materials:** No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

11. **Toxicological information**

Information on toxicological effects

Acute toxicity:

LD/LC50 values relevant for classification:

111-30-8 glutaral

Oral LD50 265 mg/kg (rat)
Dermal LD50 1660 mg/kg (rabbit)
Inhalative LC50/4 h 2.06 mg/l (rat)

Primary irritant effect:

on the skin: Caustic effect on skin and mucous membranes.

on the eye: Strong caustic effect.

Sensitization: No sensitizing effects known.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU

Classification Guidelines for Preparations as issued in the latest version:

Toxic, Harmful, Corrosive, Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12. **Ecological information**

Toxicity

Aquatic toxicity: No further relevant information available

Persistence and degradability: No further relevant information available

Behavior in environmental systems:

Bioaccumulative potential: No further relevant information available

Mobility in soil: No further relevant information available

Ecotoxical effects:

Remark: Harmful to fish

Additional ecological information:

General notes:

Water hazard class 2 (German regulation)(Assessment by list): hazardous for water.

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Must not reach sewage water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even extremely small quantities leak into the ground.

Harmful to aquatic organisms.

Results of PBT and vPvB assessment

PBT: Not applicable **vPvB:** Not applicable.

Other adverse effects: No further relevant information available.

13. **Disposal considerations**

Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

14. **Transport information**

UN-Number

ADR, IMDG, IATA UN2619

UN proper shipping name

ADR 2619 Benzyldimethylamine IMDG Benzyldimethylamine Benzyldimethylamine

Transport hazard class(es)

ADR, IMDG

Class 8 Corrosive substances

Label 8 + 3

IATA

Class 8 Corrosive substances

Label 8 + 3

Packing group

ADR, IMDG, IATA

Environmental hazards:

Marine pollutant: No

Special precautions for user: Warning: Corrosive substances

Danger code (Kemler): 83

EMS Number: F-E, S-C

Transport in bulk according

to Annex II of MARPOL 73/78

and the IBC Code: Not applicable

Transport/Additional information:

ADR

Limited quantities (LQ)1LTransport category2Tunnel restriction codeD/E

UN "Model Regulation": UN2619, Benzyldimethylamine, 8(3), II

15. **Regulatory information**

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. **Other Information**

This information is based on our present knowledge and should assist the user with the safe handling of this material when properly applied. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Contact

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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)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent