

EP 70 Komp. A

Revision date: 18.02.2021

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1. Identification**Product identifier**

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Substance name: 4,4'-Methylenbis(cyclohexylamin)

CAS No: 1761-71-3

UFI: Q800-P0U6-Q00F-TVCA

Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Adhesives, sealants

Details of the supplier of the safety data sheet

Company name: Hottinger Brüel & Kjaer

Street: Im Tiefen See 45

Place: D-64293 Darmstadt

Telephone: +49 (0)6151 803-0

Internet: www.hbm.com

Responsible Department: support@hbm.com

Emergency telephone number: +49-30-18412-0**2. Hazard identification****Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Acute toxicity: Acute Tox. 4 (oral)

Skin corrosion/irritation: Skin Corr. 1B

Specific target organ toxicity - repeated exposure: STOT RE 2

Hazardous to the aquatic environment: Aquatic Chronic 2

Label elements**Regulation (EC) No. 1272/2008****Signal word:** Danger**Pictograms:****Hazard statements**

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause damage to organs through prolonged or repeated exposure.

Toxic to aquatic life with long lasting effects.

Precautionary statements

Call a POISON CENTER if you feel unwell.

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

Do not breathe the mist/vapours/spray.

Special labelling of certain mixtures

Restricted to professional users.

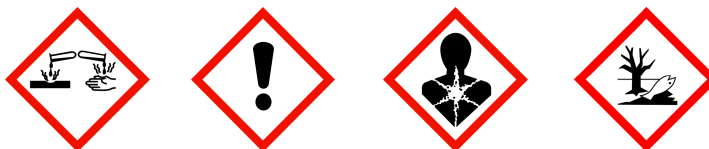
Labelling of packages where the contents do not exceed 125 ml**Signal word:** Danger

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Pictograms:



Hazard statements

H314

Precautionary statements

P280-P260

Other hazards

No information available.

3. Composition/information on ingredients

Substances

Hazardous components

CAS No	Chemical name	Quantity
1761-71-3	4,4'-Methylenbis(cyclohexylamin)	80 - 100% (*)

Full text of H statements: see section 16.

(*) The actual concentration is withheld as a trade secret.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
1761-71-3	217-168-8	4,4'-Methylenbis(cyclohexylamin)	80 - 100 %
		oral: ATE = 500 mg/kg	

4. First-aid measures

Description of first aid measures**General information**

Remove affected person from the danger area and lay down. If unconscious but breathing normally, place in recovery position and seek medical advice. First aider: Pay attention to self-protection!

After inhalation

Provide fresh air. In case of respiratory tract irritation, consult a physician.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin irritation, consult a physician.

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

If swallowed, rinse mouth with water (only if the person is conscious). If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Most important symptoms and effects, whether acute or delayed

No information available.

Indication of immediate medical attention and special treatment needed

No information available.

5. Fire-fighting measures

Extinguishing media

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Suitable extinguishing media

Water spray jet, Dry extinguishing powder, Foam

Unsuitable extinguishing media

Full water jet

Specific hazards arising from the hazardous product

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Special protective equipment and precautions for fire-fighters

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

Co-ordinate fire-fighting measures to the fire surroundings.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures**Personal precautions, protective equipment and emergency procedures****General measures**

Do not breathe gas/vapour/aerosol. Provide adequate ventilation as well as local exhaust at critical locations. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Use personal protection equipment. Personal protection equipment: see section 8

For non-emergency personnel

Remove persons to safety.

For emergency responders

Remove persons to safety. First aider: Pay attention to self-protection!

Environmental precautions

Do not allow to enter into surface water or drains.

Do not allow uncontrolled discharge of product into the environment.

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

Personal precautions, protective equipment and emergency procedures Avoid dust formation.

Other information

Take up mechanically, placing in appropriate containers for disposal. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

7. Handling and storage**Precautions for safe handling****Advice on safe handling**

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Advice on protection against fire and explosion

No special technical protective measures are necessary.

Further information on handling

Wear personal protection equipment (refer to section 8). Do not empty into drains. When using do not eat, drink, smoke, sniff.

Conditions for safe storage, including any incompatibilities

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Requirements for storage rooms and vessels

Keep container tightly closed and in a well-ventilated place.

Further information on storage conditions

No information available.

8. Exposure controls/Personal protection**Control parameters****Additional advice on limit values**

To date, no national critical limit values exist.

Exposure controls**Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Protective and hygiene measures

When using do not eat or drink. Do not breathe gas/fumes/vapour/spray.

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Wear suitable protective clothing, gloves and eye/face protection.

Draw up and observe skin protection programme.

Eye/face protection

Wear eye/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. EN ISO 374

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.

Thickness of the glove material: $\geq 0,7\text{mm}$

Suitable gloves type NBR (Nitrile rubber)

Breakthrough time: $\geq 480\text{ min}$

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

Used working clothes should not be worn outside the work area. Separate storage of work clothes.

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Filtering device (full mask or mouthpiece) with filter: a

Environmental exposure controls

Do not allow to enter into surface water or drains.

9. Physical and chemical properties**Information on basic physical and chemical properties**

Physical state:	Liquid
Colour:	light yellow
Odour:	Ammonia (NH ₃)

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pH-Value: not determined

Changes in the physical state

Melting point: not determined

Sublimation point: not determined

Softening point: not determined

Pour point: not determined

not determined:

Flash point: 160 °C

Sustaining combustion: No data available

Flammability

Solid/liquid: not determined

Gas: not determined

Explosive properties

not determined

Lower explosive limits: not determined

Upper explosive limits: not determined

Auto-ignition temperature: not determined

Self-ignition temperature

Solid: not determined

Gas: 300 °C

Decomposition temperature: not determined

Oxidizing properties

not determined

Vapour pressure:
(at 20 °C) 0.005 hPa

Vapour pressure: not determined

Density (at 20 °C): 0,98 g/cm³

Bulk density: not determined

Water solubility: The substance is not soluble in water.

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined

Viscosity / dynamic:
(at 20 °C) 80 mPa·s

Viscosity / kinematic: not determined

Flow time: not determined

Relative vapour density: not determined

Evaporation rate: not determined

Solvent separation test: not determined

Solvent content: 0

Other information

Solid content: not determined

No information available.

10. Stability and reactivity

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Reactivity

No information available.

Chemical stability

The substance is chemically stable under recommended conditions of storage, use and temperature.

Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

Conditions to avoid

No information available.

Incompatible materials

No information available.

Hazardous decomposition products

No information available.

11. Toxicological information**Information on toxicological effects****Toxicokinetics, metabolism and distribution**

No information available.

Acute toxicity

Harmful if swallowed.

CAS No	Chemical name				
	Route of exposure	Dose	Species	Source	Method
1761-71-3	4,4'-Methylenbis(cyclohexylamin)				
	oral	ATE 500 mg/kg			

Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

Sensitizing effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (4,4'-Methylenbis(cyclohexylamin))

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

No information available.

Additional information on tests

No information available.

Practical experience

No information available.

Information on other hazards**Other information**

No information available.

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Further information

No information available.

12. Ecological information**Ecotoxicity**

No information available.

Persistence and degradability

No information available.

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

Other adverse effects

No information available.

13. Disposal considerations**Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation.

14. Transport information**Canadian TDG****UN/ID number:**

UN 2735

Proper shipping name:

AMINES, LIQUID, CORROSIVE, N.O.S.

Hazard classes:

8

Packing group:

I

Hazard label:

8

Limited quantity:

0

**Marine transport (IMDG)****UN number:**

UN 2735

United Nations proper shipping name:AMINES, LIQUID, CORROSIVE, N.O.S.
(4,4'-Methylenbis(cyclohexylamine))**Transport hazard class(es):**

8

Packing group:

II

Hazard label:

8



Special Provisions:

274

Limited quantity:

1L

Excepted quantity:

E0

EmS:

F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

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UN number: UN 2735
United Nations proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S., (4,4'-Methylenbis(cyclohexylamine))
Transport hazard class(es): 8
Packing group: I
Hazard label: 8



Special Provisions: A3 A803
Limited quantity Passenger: Forbidden
Passenger LQ: Forbidden
Excepted quantity: E0
IATA-packing instructions - Passenger: 850
IATA-max. quantity - Passenger: 0.5 L
IATA-packing instructions - Cargo: 854
IATA-max. quantity - Cargo: 2.5 L

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

15. Regulatory information

Canadian regulations

16. Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,3,6,9.

Relevant H statements (number and full text)

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.