

Safety Data Sheet

according to WHMIS



EP 70 Komp. A

Revision date: 17.08.2022

Page 1 of 7

1. Identification

Product identifier

EP 70 Komp. A

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

CAS No: 1761-71-3

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

WHMIS 2015

This substance is not classified as hazardous in accordance with WHMIS 2015.

Label elements

Other hazards

No information available.

3. Composition/information on ingredients

Substances

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.

Safety Data Sheet

according to WHMIS



EP 70 Komp. A

Revision date: 17.08.2022

Page 2 of 7

Indication of immediate medical attention and special treatment needed

No information available.

5. Fire-fighting measures

Extinguishing media

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 advice

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.

Safety Data Sheet

according to WHMIS



EP 70 Komp. A

Revision date: 17.08.2022

Page 3 of 7

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

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: $>480\text{ min}$

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.

Safety Data Sheet

according to WHMIS



EP 70 Komp. A

Revision date: 17.08.2022

Page 4 of 7

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:	light yellow	
Odour:	Ammonia (NH ₃)	
pH-Value:		not determined

Changes in the physical state

Melting point/freezing 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/cm ³
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

Safety Data Sheet

according to WHMIS



EP 70 Komp. A

Revision date: 17.08.2022

Page 5 of 7

Other information

Solid content: not determined

No information available.

10. Stability and reactivity

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

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

Irritation and corrosivity

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

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

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

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.

Safety Data Sheet

according to WHMIS



EP 70 Komp. A

Revision date: 17.08.2022

Page 6 of 7

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.

Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

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 number or 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

Safety Data Sheet

according to WHMIS



EP 70 Komp. A

Revision date: 17.08.2022

Page 7 of 7

EmS: F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

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): 1,2,6.