Page 1/7 Safety data sheet according to 1907/2006/EC, Article 31 Printing date 05.10.2023 Version number 1 Revision: 05.10.2023 SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: CM-H-D230 · Chemical Identification: Polyoxypropylenediamine · Article number: 1431 · CAS Number: 9046-10-0 · EC number: 618-561-0 · Registration number 01-2119557899-12 · 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. · Application of the substance / the mixture Epoxy curing agent · 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: Möller Chemie GmbH & Co. KG Bürgerkamp 1 D-48565 Steinfurt Tel.: 02551/9340-0 Fax: 02551/9340-60 · Further information obtainable from: Product safety department · 1.4 Emergency telephone number: Poison Control Center Mainz - 24 hour emergency service - Tel.: +49 (0) 6131/19240 **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 GHS05 corrosion Skin Corr. 1C H314 Causes severe skin burns and eve damage. Eye Dam. 1 H318 Causes serious eye damage. Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects. · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation. · Hazard pictograms

GHS05

Signal word Danger
Hazard statements
H314 Causes severe skin burns and eye damage.
H412 Harmful to aquatic life with long lasting effects.
Precautionary statements
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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/doctor.
P321 Specific treatment (see on this label).

(Contd. on page 2)

EU

Printing date 05.10.2023

Version number 1

Revision: 05.10.2023

(Contd. of page 1)

Trade name: CM-H-D230

P405 P501

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· 2.3 Other hazards

The product does not contain any substance above the legal limits included on the list for endocrine disrupting properties established under Article 59(1) of Regulation (EC) No 1907/2006 or under Commission Delegated Regulation (EU) 2017/2100 or of Commission Regulation (EU) 2018/605 has endocrine disrupting properties.

• Results of PBT and vPvB assessment

· PBT:

The product does not contain any substances above legal limits that meet the criteria for PBT (persistent, bioaccumulative and toxic).

· vPvB:

The product does not contain any substances above legal limits that meet the criteria for vPvB (very persistent and very bioaccumulative).

SECTION 3: Composition/information on ingredients

- · 3.1 Substances
- · CAS No. Description
- 9046-10-0 Polyoxypropylenediamine
- · Identification number(s)
- EC number: 618-561-0

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- After inhalation: Supply fresh air, consult doctor in case of complaints.
- · 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:* Drink plenty of water and provide fresh air. Call for a doctor immediately.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents: CO2, powder or water spray. Fight larger fire with alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture In case of fire, the following can be released:
- Nitrogen oxides (NOx)
- 5.3 Advice for firefighters
- *Protective equipment:* Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- 6.2 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.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomaceous earth, acid binder, universal binder, sawdust).

(Contd. on page 3)

Printing date 05.10.2023

Version number 1

Revision: 05.10.2023

(Contd. of page 2)

Trade name: CM-H-D230

Use neutralising agent.

- Dispose contaminated material as waste according to section 13.
- 6.4 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.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Avoid contact with skin, eyes and clothing.
- Ensure good ventilation/exhaustion at the workplace.
- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in well closed containers, cool and dry.
- Information about storage in one common storage facility: See section 10.5
- Further information about storage conditions: Keep container tightly sealed. Store only in the original container.
- Storage class: 8 A
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 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.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:
- The usual precautionary measures are to be adhered to when handling chemicals.
- · Respiratory protection: Suitable respiratory protective device recommended.
- · Hand protection



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
- nitrile rubber
- Ethyl vinyl alcohol laminate ("EVAL")

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.

(Contd. on page 4)

EU

Printing date 05.10.2023

Version number 1

Revision: 05.10.2023

(Contd. of page 3)

EU

Trade name: CM-H-D230

· Eye/face protection



Tightly sealed goggles

· Body protection: chemical protective suit

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical pr	operties
· General Information	•
· Physical state	Fluid
· Colour:	Colourless
· Odour:	Ammonia-like
· Odour threshold:	Not determined.
• Melting point/freezing point:	Undetermined.
• Boiling point or initial boiling point and boiling	onacier minea.
· · · · ·	232 °C
range · Flammability	Not applicable.
	Noi upplicuble.
· Lower and upper explosion limit	Not determined.
· Lower:	
· Upper:	Not determined.
Flash point:	128 °C
Auto-ignition temperature:	240 °C
· Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic:	Not determined.
· Solubility	
water:	Soluble.
· Partition coefficient n-octanol/water (log value) at	
25 °C	1.34 log KOW
· Vapour pressure:	Not determined.
· Vapour pressure at 20 °C:	0.9 hPa
· Density and/or relative density	
• Density at 20 °C:	0.948 g/cm^3
· Relative density	Not determined.
· Vapour density	Not determined.
• •	
· 9.2 Other information	
· Appearance:	
· Form:	Fluid
• Important information on protection of health and	l
environment, and on safety.	
· Ignition temperature:	Not determined.
• Explosive properties:	Product does not present an explosion hazard.
· Change in condition	
• Evaporation rate	Not applicable.
· Information with regard to physical hazard classes	,
· Explosives	Void Void
· Flammable gases	Void V-:-l
Aerosols	Void
• Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
	(Contd. on page 5)

Printing date 05.10.2023

Version number 1

Revision: 05.10.2023

Trade name: CM-H-D230

		(Contd. of page 4)
· Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
· Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit flamma	ble	
gases in contact with water	Void	
Oxidising liquids	Void	
• Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
· Desensitised explosives	Void	

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- The product is stable if the regulations / instructions for storage and handling are observed.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions Strongly exothermic reaction with acids.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: Acids.
- 10.6 Hazardous decomposition products: In case of fire, toxic fumes may be produced.

SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.
- · Skin corrosion/irritation
- Causes severe skin burns and eye damage.
- · Serious eye damage/irritation
- Causes serious eye damage.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- *Reproductive toxicity 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.
- \cdot Aspiration hazard Based on available data, the classification criteria are not met.
- 11.2 Information on other hazards
- Endocrine disrupting properties Substance is not listed.

SECTION 12: Ecological information

- · 12.1 Toxicity
- Aquatic toxicity:
- LC50/96 h > 15 mg/l (Oncorhynchus mykiss)
- EC50/48 h: 80 mg/l (Daphnia magna)
- EC50/72 h: 15 mg/l (Pseudokirchneriella subcapitata)
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- \cdot 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- **PBT:** This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).
- vPvB: This substance is not considered to be very persistent nor very bioaccumulative (vPvB).

(Contd. on page 6)

EU

Printing date 05.10.2023

Version number 1

Revision: 05.10.2023

Trade name: CM-H-D230

(Contd. of page 5) • **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.

· 12.7 Other adverse effects

· Remark: Harmful to fish

• Additional ecological information:

· General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Harmful to aquatic organisms

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

• *Recommendation Disposal according to local regulations.*

• Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

14.1 UN number or ID number ADR, IMDG, IATA	UN2735
14.2 UN proper shipping name ADR	2735 AMINES, LIQUID, CORROSIVE, N.O.S (Polyoxypropylenediamine)
IMDG, IATA	AMINES, LIQUID, CORROSIVE, N.O.S (Polyoxypropylenediamine)
14.3 Transport hazard class(es)	
ADR	
UT THE	
Class	8 (C7) Corrosive substances.
Label	8
Class	8 Corrosive substances.
Label	8
14.4 Packing group ADR, IMDG, IATA	III
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Warning: Corrosive substances.
Hazard identification number (Kemler code):	80
EMS Number:	F-A,S-B
Segregation groups	(SGG18) Alkalis
Stowage Category	A
Segregation Code	SG35 Stow "separated from" SGG1-acids
14.7 Maritime transport in bulk according to IM	
instruments	Not applicable.

Printing date 05.10.2023

Version number 1

Revision: 05.10.2023

Trade name: CM-H-D230

	(Contd. of page 6)
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
\cdot Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
• Tunnel restriction code	E
·IMDG	
· Limited quantities (LQ)	5L
\cdot Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S.
-	(POLYOXYPROPYLENEDIAMINE), 8, III

SECTION 15: Regulatory information

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Product safety department

- · Contact: Mrs. Steyer
- Abbreviations and acronyms:

ADR: Accord relatif au transport international 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 Harmonised 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) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Skin Corr. 1C: Skin corrosion/irritation – Category 1C Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3