

ETOPOX 3D DESIGN HÄRTER / 0.6 KG

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05.12.2022	102000082884	Date of first issue: 05.12.2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name : ETOPOX 3D DESIGN HÄRTER / 0.6 KG

Identification of the article : 855000034001

1.2 Relevant identified uses of the substance or mixture and uses advised againstUse of the Sub-
stance/Mixture : Hardener based on polyamine resins**1.3 Details of the supplier of the safety data sheet**

Company	: Walter Mäder AG - Bereich Lacke Industriestrasse 1 CH - 8956 KILLWANGEN
Telephone	: +41564178111
Telefax	: +41564016465
E-mail address of person responsible for the SDS	: products-safety.wmag@mader-group.com

1.4 Emergency telephone numberEmergency telephone
number :

Tox Info Suisse:145

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

Acute toxicity, Category 4	H302: Harmful if swallowed.
Skin corrosion, Sub-category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

ETOPOX 3D DESIGN HÄRTER / 0.6 KG

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05.12.2022	102000082884	Date of first issue: 05.12.2022

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms :



Signal word : Danger

Hazard statements :

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary statements :

Prevention:

- P261 Avoid breathing mist or vapours.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

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

Hazardous components which must be listed on the label:

Benzyl alcohol
 3-Aminomethyl-3,5,5-trimethylcyclohexylamine
 2,2,4-trimethylhexane-1,6-diamine
 Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane, reaction products with 2,2,4(or 2,4,4)-trimethyl-1,6-hexa nediamine

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Hardener based on polyamine resins

Components

ETOPOX 3D DESIGN HÄRTER / 0.6 KG

Version 1.0 Revision Date: 05.12.2022 SDS Number: 102000082884 Date of last issue: -
 Date of first issue: 05.12.2022

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Benzyl alcohol	100-51-6 01-2119492630-38	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Irrit. 2; H319	>= 20 - < 30
3-Aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2 01-2119514687-32	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 specific concentra- tion limit Skin Sens. 1A; H317 >= 0,001 %	>= 20 - < 25
Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer	68609-08-5 REACH Annex V No. 4	Skin Corr. 1B; H314 Eye Dam. 1; H318	>= 5 - < 10
2,2,4-trimethylhexane-1,6-diamine	25513-64-8 01-2119560598-25	Acute Tox. 4; H302 Skin Corr. 1A; H314 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 3 - < 5
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane, reaction products with 2,2,4(or 2,4,4)-trimethyl-1,6-hexa nediamine	111850-23-8 REACH Annex V No. 4	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317	>= 3 - < 5

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
 Consult a physician.
 Show this safety data sheet to the doctor in attendance.
 Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.
 If symptoms persist, call a physician.
- In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.

ETOPOX 3D DESIGN HÄRTER / 0.6 KG

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05.12.2022	102000082884	Date of first issue: 05.12.2022

- If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : Harmful if swallowed.
May cause an allergic skin reaction.
Causes serious eye damage.
Causes severe burns.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : No information available.

SECTION 5: Firefighting measures
5.1 Extinguishing media

- Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : No hazardous combustion products are known

5.3 Advice for firefighters

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

ETOPOX 3D DESIGN HÄRTER / 0.6 KG

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05.12.2022	102000082884	Date of first issue: 05.12.2022

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Neutralise with acid.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

Not applicable

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Advice on safe handling : Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
To avoid spills during handling keep bottle on a metal tray.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : When using do not eat or drink. When using do not smoke.
Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re-sealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

ETOPOX 3D DESIGN HÄRTER / 0.6 KG

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05.12.2022	102000082884	Date of first issue: 05.12.2022

Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : No information available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

Contains no substances with occupational exposure limit values.

8.2 Exposure controls**Personal protective equipment**

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance	: fluid
Colour	: yellow, transparent
Odour	: amine-like
pH	: ca. 11
Boiling point/boiling range	: > 200 °C (1.013 hPa)
Flash point	: ca. 108 °C
Evaporation rate	: No data available
Upper explosion limit / Upper flammability limit	: No data available
	No data available

ETOPOX 3D DESIGN HÄRTER / 0.6 KG

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05.12.2022	102000082884	Date of first issue: 05.12.2022

		No data available
Lower explosion limit / Lower flammability limit	:	No data available
		No data available
		No data available
Vapour pressure	:	< 1.000 hPa (50 °C)
Relative vapour density	:	No data available
		No data available
		No data available
Density	:	ca. 0,99 g/cm ³ (20 °C)
Solubility(ies)		
Water solubility	:	partly soluble
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	Hazardous decomposition products formed under fire conditions.
Viscosity		
Viscosity, kinematic	:	> 20,5 mm ² /s (40 °C)
Flow time	:	ca. 30 s at 20 °C Cross section: 6 mm Method: ISO 2431
		> 30 s at 20 °C Cross section: 3 mm Method: ISO 2431
Explosive properties	:	No data available
Oxidizing properties	:	No data available

9.2 Other information

Self-ignition	:	No data available
Solvent separation	:	< 3 %(V) (20 °C)

ETOPOX 3D DESIGN HÄRTER / 0.6 KG

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05.12.2022	102000082884	Date of first issue: 05.12.2022

SECTION 10: Stability and reactivity**10.1 Reactivity**

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.
No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : Incompatible with oxidizing agents.
Incompatible with strong acids and bases.

10.6 Hazardous decomposition products

Stable under recommended storage conditions.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Harmful if swallowed.

Product:

Acute oral toxicity : Acute toxicity estimate: 588,24 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Skin corrosion/irritation

Causes severe burns.

Product:

Remarks : Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation

Causes serious eye damage.

ETOPOX 3D DESIGN HÄRTER / 0.6 KG

Version 1.0 Revision Date: 05.12.2022 SDS Number: 102000082884 Date of last issue: -
Date of first issue: 05.12.2022

Product:

Remarks : May cause irreversible eye damage.

Respiratory or skin sensitisation**Skin sensitisation**

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Product:

Remarks : Causes sensitisation.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information**Product:**

Remarks : No data available

SECTION 12: Ecological information**12.1 Toxicity**

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment**Product:**

Assessment : This substance/mixture contains no components considered

ETOPOX 3D DESIGN HÄRTER / 0.6 KG

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05.12.2022	102000082884	Date of first issue: 05.12.2022

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects**Product:**

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14: Transport information**14.1 UN number**

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

14.2 UN proper shipping name

ADN : POLYAMINES, LIQUID, CORROSIVE, N.O.S.
 ADR : POLYAMINES, LIQUID, CORROSIVE, N.O.S.
 RID : POLYAMINES, LIQUID, CORROSIVE, N.O.S.
 IMDG : POLYAMINES, LIQUID, CORROSIVE, N.O.S.
 (Trimethylolpropane poly(oxypropylene)triamine)

ETOPOX 3D DESIGN HÄRTER / 0.6 KG

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05.12.2022	102000082884	Date of first issue: 05.12.2022

IATA : POLYAMINES, LIQUID, CORROSIVE, N.O.S.

14.3 Transport hazard class(es)

ADN : 8
ADR : 8
RID : 8
IMDG : 8
IATA : 8

14.4 Packing group

ADN
 Packing group : II
 Classification Code : C7
 Hazard Identification Number : 80
 Labels : 8

ADR
 Packing group : II
 Classification Code : C7
 Hazard Identification Number : 80
 Labels : 8
 Tunnel restriction code : (E)

RID
 Packing group : II
 Classification Code : C7
 Hazard Identification Number : 80
 Labels : 8

IMDG
 Packing group : II
 Labels : 8
 EmS Code : F-A, S-B

IATA (Cargo)
 Packing instruction (cargo aircraft) : 855
 Packing instruction (LQ) : Y840
 Packing group : II
 Labels : Corrosive

IATA (Passenger)
 Packing instruction (passenger aircraft) : 851
 Packing instruction (LQ) : Y840
 Packing group : II
 Labels : Corrosive

14.5 Environmental hazards

ADN
 Environmentally hazardous : yes

ADR
 Environmentally hazardous : yes

ETOPOX 3D DESIGN HÄRTER / 0.6 KG

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05.12.2022	102000082884	Date of first issue: 05.12.2022

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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**

Relevant EU provisions transposed through retained EU law

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation : Not applicable

Fire Hazard Class : Exempt

Seveso III Directive (2012/18/EU) implemented by Control of Major Accident Hazards Regulations 2015 (COMAH) E2 ENVIRONMENTAL HAZARDS

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 21,75 %, 215,33 g/l**15.2 Chemical safety assessment**

A Chemical Safety Assessment is not required for this substance.

ETOPOX 3D DESIGN HÄRTER / 0.6 KG

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05.12.2022	102000082884	Date of first issue: 05.12.2022

SECTION 16: Other information**Full text of H-Statements**

H302	:	Harmful if swallowed.
H314	:	Causes severe skin burns and eye damage.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H332	:	Harmful if inhaled.
H412	:	Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Skin Corr.	:	Skin corrosion
Skin Sens.	:	Skin sensitisation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; 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 Maritime 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; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Classification of the mixture:

Acute Tox. 4	H302
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Classification procedure:

Calculation method

SAFETY DATA SHEET

ETOPOX 3D DESIGN HÄRTER / 0.6 KG

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05.12.2022	102000082884	Date of first issue: 05.12.2022

Skin Corr. 1B	H314	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method
Aquatic Chronic 2	H411	Calculation method

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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