

MATERIAL SAFETY DATA SHEET

According to (EU) 830/2015

PRIMER HARD TOP (hardener)



ADHESIVES • PLASTERS • THERMAL INSULATION

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Issue: 1

Pages (number): 8

1. Identification of the Substance/Mixture and of the Company

1.1. Product identifier – *PRIMER HARD TOP (hardener)*

1.2. Application of the substance

Two-component water-based epoxy coating – **Component 1 – Hardener.**

1.3. Details of the supplier of the safety data sheet

TERAZID Ltd.

5, 5004 Street, Gara Iskar1528 Sofia, Bulgaria

tel. +359 2 9799971, office@terazid.com

1.4. Emergency telephone number (EU)

UMHATEM “Pirogov” (toxicology) -

112

+3592/9154409; +3592/9154233

2. Hazards Identification

2.1. Classification of the substance or mixture

- *Classification in accordance with Regulation (EO) 1272/2008 – CLP: **The product is classified as “hazardous”.***

2.2. Label elements

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:

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P273 - Avoid release to the environment.

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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2.3. Other hazards - None.

For all warnings and recommendations, see **Section 15**.

3. Composition/information on ingredients

General chemical description: N/A.

Information of the substances in accordance with CLP 1272/2008/EC

CAS №/ EINECS №	Name	Concentration (%)	Signal word	H-codes
38294-64-3/ 500-101-4	Aduct of aliphatic polyamine (Bis A epoxy adduct whit 3 aminomethylcyclohexylamine)	≤ 30	Warning	H314, H317
2855-13-2/ 220-666-8	3-aminomethyl- 3,5,5-trimethylcyclohexylamine	≤ 20	Danger	H302, H314, H317, H412
111-76-2/ 203-905-0	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve	≤ 15	Warning	H302, H312, H315, H319
111-40-0/ 203-865-4	2,2'-iminodiethylamine; diethylenetriamine	< 5	Danger	H302, H312, H314, H317, H335
9046-10-0/ 618-561-0	PPG-70 BIS-(2-aminopropyl) ether	< 5	Danger	H302, H312, H314, H318, H412

4. First Aid Measures

4.1. Description of the first aid measures - Call a physician immediately.

Inhalation – Remove person to fresh air and keep comfortable for breathing.

Skin contact – Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.

Eye contact – Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

Ingestion – Rinse mouth. Do not induce vomiting. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after skin contact - Burns. May cause an allergic skin reaction.

Symptoms/effects after eye contact - Serious damage to eyes.

Symptoms/effects after ingestion - Burns.

4.3. Indication of any immediate medical attention and special treatment needed – see p. 4.1.

Treat symptomatically.

5. Firefighting Measures

5.1. Extinguishing media

Water mist, water spray – sprayer, dry chemical, foam, carbon dioxide.

5.2. Special hazards, arising from the substance or mixture

Hazardous decomposition products in case of fire - Toxic fumes may be released.

5.3. Advice for firefighters:

Protection during firefighting - Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures - Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment - Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up - Take up liquid spill into absorbent material.

Other information - Dispose of materials or solid residues at an authorized site.

7. Handling and Storage

7.1. Precautions for safe handling

Precautions for safe handling – Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.

Handling temperature - 10 – 30 °C

Hygiene measures - Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions - Store in a well-ventilated place. Keep cool.

Maximum storage period - 12 months

Storage temperature - 5 – 30 °C

Storage area - Store in a well-ventilated place.

Special rules on packaging - Keep only in original container.

7.3. Specific Usage

Manufacture of paints, varnishes and similar coatings, printing ink and mastics.

8. Exposure Controls/Personal Protection

8.1. Control parameters – N/A

8.2. Exposure controls

Ensure good ventilation of the work station.

8.2.1. Respiratory protection – use a protective mask, filter P2.

8.2.2. Skin protection – skin contact should be avoided, wear protective gloves.

8.2.3. Eye protection – eye contact should be avoided, wear safety glasses.

8.2.4. Common protection – it should be stored away from food, drinks and food for animals.

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9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

- Physical state - liquid
- Appearance – liquid
- Color – colourless
- Odour - characteristic
- Density - 1.1 g/cm³
- Solubility - insoluble in water

9.2. Other information – no data.

10. Stability and reactivity

10.1. Reactivity – The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability – Stable under normal conditions.

10.3. Possibility of hazardous reactions – No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid – None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials – No additional information available.

10.6. Hazardous decomposition products – Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological Information

11.1. Information for the toxicological effects

Acute toxicity (oral) - Harmful if swallowed.

Acute toxicity (dermal) - Not classified

Acute toxicity (inhalation) - Not classified

Skin corrosion/irritation - Causes severe skin burns.

Serious eye damage/irritation - Assumed to cause serious eye damage.

Respiratory or skin sensitisation - May cause an allergic skin reaction.

Germ cell mutagenicity - Not classified

Carcinogenicity - Not classified

Reproductive toxicity - Not classified

STOT-single exposure - Not classified

STOT-repeated exposure - Not classified

Aspiration hazard - Not classified

12. Ecological Information

12.1. Toxicity

Ecology (general) - Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term (acute) - Not classified

Hazardous to the aquatic environment, long-term (chronic) - Harmful to aquatic life with long lasting effects.

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12.2. Persistence and degradability – No additional information available.

12.3. Bio-accumulative potential – No additional information available.

12.4. Mobility in soil – No additional information available.

12.5. Results of PBT and vPvB assessment – the product does not meet the criteria of PBT (persistent, bio-accumulative and toxic) and vPvB (very persistent and very bio-accumulative).

12.6. Other adverse effects – No additional information available.

13. Disposal Considerations

Product waste, such as residual quantities and packages, should be collected into a special, tightly sealed and labelled containers, temporarily stored, and after that to be transferred to people, holding a permit in accordance with article 37 of the Waste Management Act (publication SG, issue 53, 2012).






Waste code, in accordance with Regulation №2 from 23.07.2014 for Waste Classification:

08 01 11* - waste paint and varnish containing organic solvents or other dangerous substances

Waste Packages code:

14. Transport Information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR		IMDG		IATA	ADN	RID
14.1.	UN number					
1263		1263		1263	1263	1263
14.2.	UN proper shipping name					
PAINT RELATED MATERIAL		PAINT		Paint	PAINT	PAINT
Transport document description						
UN 1263 PAINT RELATED MATERIAL, 3, I, (D/E)		UN 1263 PAINT, 3, I		UN 1263 Paint, 3, I	UN 1263 PAINT , 3, I	UN 1263 PAINT, 3, I
14.3.	Transport hazard class(es)					
3		3		3	3	3
						
14.4.	Packing group					
I		I		I	I	I
14.5.	Environmental hazards					
Dangerous for the environment : No		Dangerous for the environment : No Marine pollutant : No		Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
			No	supplementary information available		

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14.6 Special precautions for user

Overland transport

▪ Classification code (ADR):	F1
▪ Special provisions (ADR):	163, 650, 367
▪ Limited quantities (ADR):	500 ml
▪ Excepted quantities (ADR):	E3
▪ Packing instructions (ADR):	P001
▪ Mixed packing provisions (ADR):	MP7, MP17
▪ Portable tank and bulk container instructions (ADR):	T11
▪ Portable tank and bulk container special provisions (ADR):	TP1, TP8, TP27
▪ Tank code (ADR) Vehicle:	L4BN
▪ For tank carriage Transport:	FL
▪ Category (ADR):	1
▪ Special provisions for carriage operation:	S2, S20
▪ Hazard identification number:	33
▪ Orange plates:	
▪ Tunnel restriction code (ADR):	D/E
▪ EAC code:	•3YE

Transport by sea

▪ Special provisions (IMDG):	163, 367
▪ Limited quantities (IMDG):	500 ml
▪ Excepted quantities (IMDG):	E3
▪ Packing instructions (IMDG):	P001
▪ Tank instructions (IMDG):	T11
▪ Tank special provisions (IMDG):	TP1, TP8, TP27
▪ EmS-No. (Fire):	F-E
▪ EmS-No. (Spillage):	S-E
▪ Stowage category (IMDG):	E
▪ Properties and observations (IMDG):	Miscibility with water depends upon the composition.

Air transport

▪ PCA Excepted quantities (IATA):	E3
▪ PCA Limited quantities (IATA):	Forbidden
▪ PCA limited quantity max net quantity (IATA):	Forbidden
▪ PCA packing instructions (IATA):	351
▪ PCA max net quantity (IATA):	1L
▪ CAO packing instructions (IATA):	361
▪ CAO max net quantity (IATA):	30L
▪ Special provisions (IATA):	A3, A72, A192
▪ ERG code (IATA):	3L

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Inland waterway transport

- | | |
|--------------------------------------|---------------|
| ▪ Classification code (ADN): | F1 |
| ▪ Special provisions (ADN): | 163, 367, 650 |
| ▪ Limited quantities (ADN): | 500 ml |
| ▪ Excepted quantities (ADN): | E3 |
| ▪ Equipment required (ADN): | PP, EX, A |
| ▪ Ventilation (ADN): | VE01 |
| ▪ Number of blue cones/lights (ADN): | 1 |

Rail transport

- | | |
|--|----------------|
| ▪ Classification code (RID): | F1 |
| ▪ Special provisions (RID): | 163, 367, 650 |
| ▪ Limited quantities (RID): | 500ml |
| ▪ Excepted quantities (RID): | E3 |
| ▪ Packing instructions (RID): | P001 |
| ▪ Mixed packing provisions (RID): | MP7, MP17 |
| ▪ Portable tank and bulk container instructions (RID): | T11 |
| ▪ Portable tank and bulk container special provisions (RID): | TP1, TP8, TP27 |
| ▪ Tank codes for RID tanks (RID): | L4BN |
| ▪ Transport category (RID): | 1 |
| ▪ Hazard identification number (RID): | 33 |

15. Regulatory information

15.1. Classification and labeling of the product in accordance with Regulation (EO) 1272/2008 - CLP /full text of the codes/

GHS Pictograms:



Signal word: Danger!

Recommendations for danger (N - codes): None.

Hazard statements (H - codes):

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 (P - codes):

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

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15.2. Legislation

National Legislation:

- Law of Protection from the Harmful Impact of the Chemical Substances and Preparations.
- Environmental Protection Law.
- Health and Safety at Work Act.
- Ordinance №3 on the minimum requirements for safety and protection of the workers when using personal protective equipment at the workplace.
- Waste Management Act.
- Ordinance №2 from 23.07.2014 for Waste Classification.
- Ordinance on the order and the method of classification, labeling and packaging of chemical substances and preparations.

European Legislation:

- Regulation (EO) 1272/2008 – CLP from 16th December 2008, concerning the classification, labelling and packaging of substances and preparations.
- Regulation (EO) 830/2015 from 28th May 2015.

16. Other Informaiton

16.1. Indication of changes

Format in accordance with Regulation (EO) 830/2015 from 28th May 2015 amending Regulation № 1907/2006 (REACH) of the European Parliament.

16.2. Training advice

In addition to the training programs on environment and health and safety of the workers, the companies need to be sure that their workers read, understand and apply the requirements of the MSDS.

16.3. Additional information

See the application(s) of exposure scenarios for the following substances:

The basic information of the exposure scenarios of the substances in the mixture are included in points 1, 2, 3, 8, 11 and 12.

16.4. Disclaimer

This safety data sheet and the data inside of it are based on industrial and commercial experience of many years and are fully complied with the current active legislation of the Republic of Bulgaria and the European Union. This safety data sheet is not intended to guarantee any specific properties and qualities of the product. The information inside of it is reliable but, on the circumstance, that the product is used in accordance with the indicated conditions and the application, specified on the package and/or in the technical literature. Responsibility of any other use of the product, including when using it in combination with another product or process is completely under the responsibility of the user. It is understood that the user is responsible for defining the appropriate precautions and for applying the legislation, concerning his own activity.