

MATERIAL SAFETY DATA SHEET

According to (EU) 830/2015

HARD TOP PU (base)



ADHESIVES • PLASTERS • THERMAL INSULATION

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Issue: 1

Pages (number): 6

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

1.1. Product identifier – *HARD TOP PU (base)*

1.2. Application of the substance

Two-component coating mixture based on waterborne polyurethane – Component 1 – Base.

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 not classified.***

2.2. Label elements

Precautionary statements:

P103 - Read label before use.

P201 - Obtain special instructions before use.

P262 - Do not get in eyes, on skin, or on clothing.

P273 - Avoid release to the environment.

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

P302 + P352 - IF ON SKIN: Wash with plenty of water.

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

2.3. Other hazards

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

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

3. Composition/information on ingredients

General chemical description: Waterborne polyurethane and modifying additives.

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

CAS № EINECS №	Name	Concentration (%)	Signal word	H-codes
84133-50-6 -	C12-14 SEC-PARETH-8	0.9 - 2.5	-	Not classified
111-76-2 203-905-0	2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve	0.5 - 2.1	Warning	H332, H312, H302, H319, H315

All warnings can be seen in **Section 15**.

4. First Aid Measures

4.1. Description of the first aid measures

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

Skin contact – Wash skin with plenty of water.

Eye contact – Rinse eyes with water as a precaution.

Ingestion – Call a poison center or a doctor if you feel unwell.

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

No additional information available.

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.

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.

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

Prevent this product from release in the environment. Measures should be taken for preventing contamination of surface and underground watercourses, soil, as well as falling into the drains.

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.

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7. Handling and Storage

7.1. Precautions for safe handling

Precautions for safe handling – Ensure good ventilation of the work station. Wear personal protective equipment. Avoid skin and eye contact.

Hygiene measures - 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

It should be stored in ventilated and dry places, into the originally sealed packages. Temperatures lower than 5°C and higher than +40°C should be avoided. It should be separately stored from food and drinks.

7.3. Specific Usage

There is no specific usage. It should be used only according to its main purpose.

8. Exposure Controls/Personal Protection

8.1. Control parameters

EU	Local name	2-Butoxyethanol
EU	IOELV TWA (mg/m ³)	98 mg/m ³
EU	IOELV TWA (ppm)	20 ppm
EU	IOELV STEL (mg/m ³)	246 mg/m ³
EU	IOELV STEL (ppm)	50 ppm

8.2. Exposure controls

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.

The substance is not classified for human health hazards or for environment effects and it is not PBT or vPvB so that no exposure assessment or risk characterisation is required. For tasks where the intervention of workers is required, the substance must be handled in accordance with good industrial hygiene and safety procedures.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

- Physical state - liquid
- Appearance – viscous
- Color – white
- Odor – characteristic
- pH at 20°C – approximately 7.5 – 9.0
- Freezing point – 0 °C
- Boiling point – 100 °C
-

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 – The product is stable under storage and usage in accordance with the indications.

10.3. Possibility of hazardous reactions – In accordance with section 10.1.

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

10.5. Incompatible materials – No data.

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

Toxicological properties of the product are not tested. The product is classified under the conventional method in accordance with Regulation (EO) 1272/2008 - CLP. On the basis of its composition, the product can be defined as not having any toxic effects under a proper usage.

The product is not hazardous of acute poisoning.

Ingestion – It is less likely that the ingestion will lead to reaction or long-term effect, but is recommended to be avoided.

Inhalation – Not classified.

Skin contact – The product is not absorbed through the skin. It is less likely, the product to cause any skin damage, but is recommended to use gloves.

Eye contact – Avoid eye contact (pH \approx 7.5-9.0).

12. Ecological Information

12.1. Toxicity

The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

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 20 – liquid suspensions of paints, others than those mentioned in 08 01 19

Waste Packages code:

15 01 02 – plastic packages.

Completely empty the packages and dispose them in accordance with the local regulations.

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14. Transport Information

It is not a hazardous load, in accordance with RID, ADR, ADN, IMDG, IATA-DGR.

It should be transported under the respective rules for transportation, concerning the respective type of transport and ensuring the safety of the load.

15. Regulatory information

15.1 Content of volatile organic compounds /VOC/, in accordance with the *Ordinance on limiting the emissions of volatile organic compounds in the use of organic solvents in certain paints, varnishes and auto reparatory products*, category A, sub point c) **< 30 g/l**

15.2 Classification and labeling of the product in accordance with Regulation (EO) 1272/2008 - CLP /not classified/

Hazard statements (H - codes):

H302 - Harmful if swallowed.

H312 - Harmful in contact with skin.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H332 - Harmful if inhaled.

Precautionary statements (P - codes):

P103 - Read label before use.

P201 - Obtain special instructions before use.

P262 - Do not get in eyes, on skin, or on clothing.

P273 - Avoid release to the environment.

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

P302 + P352 - IF ON SKIN: Wash with plenty of water.

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

15.3. 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.

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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.