

SAFETY DATA SHEET



[In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended]

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

TETRAPUR 100, 100T, 100TS COMPONENT A

TETRAPUR 100 LV, 100 T LV, 100TS LV COMPONENT A

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: two-component adhesive for connecting artificial grass and rubber mats.

Uses advised against: not determined

1.3 Details of the supplier of the safety data sheet

Manufacturer: **BSG Sp. z o. o.**

Address: Andrzeja Struga 20, 95-100 Zgierz, Poland

Telephone/Fax number: +48 42 716 23 38/+48 42 716 23 54

E-mail address for a competent person responsible for SDS: biuro@theta-doradztwo.pl

1.4 Emergency telephone number

112

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Product is not classified as hazardous for human health and for the environment.

2.2 Label elements

Hazard pictograms and signal words

None.

Hazard statements

None.

Precautionary statements

None.

Additional information

EUH208 Contains N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide). May produce an allergic reaction.

2.3 Other hazards

The components do not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation REACH. The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 (3) or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 % by weight.

Section 3: Composition/information on ingredients

3.1 Substances

Not applicable.

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3.2 Mixtures

CAS number: 123-26-2 EC number: 204-613-6 Index number: - Registration number: 01-2119978265-26-XXXX	<u>N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)</u> Skin Sens. 1B H317, Aquatic Chronic 3 H412	≤ 0,5 %
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Full text of each relevant H phrase is given in section 16 of SDS.

Section 4: First aid measures

4.1 Description of first aid measures

Skin contact: remove contaminated clothing. Wash contaminated areas with plenty of water. Consult a doctor if disturbing symptoms occur.

Eye contact: consult an ophthalmologist if disturbing symptoms occur. Protect non-contaminated eye, remove contact lenses. Rinse thoroughly contaminated eyes with water for 10-15 minutes. Avoid strong stream of water - the risk of corneal damage.

Ingestion: do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Call a doctor if disturbing symptoms occur, show container or label.

Inhalation: Remove to fresh air, keep warm and at rest. Consult a doctor if needed.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact: in case of a prolonged contact, possible redness, dry skin, allergic reactions in susceptible people.

Eye contact: possible redness, tearing, burning sensation.

After ingestion: possible abdominal pain, nausea, vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

Physician makes a decision regarding further medical treatment after thoroughly examination of the injured.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: non-flammable product. Adapt extinguishing media to the surrounding materials.

Unsuitable extinguishing media: water can be used when other extinguishing media are not available.

5.2 Special hazards arising from the substance or mixture

During combustion harmful vapours and gases: carbon oxides, nitrogen oxides and other unidentified thermal decomposition products may be released. Do not inhale combustion products – it can be dangerous for health.

5.3 Advice for firefighters

Personal protection typical in case of fire. Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals. In case of fire cool endangered containers with water spray from a safe distance. Do not allow extinguishing water entering drains, surface water and groundwater. Collect used extinguishing media.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Limit the access for the outsiders into the breakdown area, until the suitable cleaning operations are completed. Ensure that only the trained personnel removes the effects of the accident. In case of release of large amounts of the product, isolate the exposed area. Use personal protective equipment. Avoid skin and eyes contamination. Ensure adequate ventilation. Do not breathe vapours. Attention! Risk of slipping on spilled product.

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6.2 Environmental precautions

In case of release of large amounts of the product, it is necessary to take appropriate steps to prevent it from spreading into the environment. Notify the appropriate emergency services.

6.3 Methods and material for containment and cleaning up

Large spill: dam up the spillage area, pump out collected liquid.

Small spill: collect the product using non-flammable liquid absorbing materials (eg. sand, earth, universal binding substances, silica, vermiculite etc.) and place it in properly labeled containers. Treat the collected material as waste. Clean and ventilate contaminated place.

6.4 Reference to other sections

Appropriate conduct with waste product – see section 13. Appropriate personal protective equipment – see section 8.

Section 7: Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good occupational hygiene and safety practices. Avoid contact with eyes and skin. Wash hands after work and before breaks. Use as intended. Ensure adequate ventilation of area, where the product is used. Do not breathe vapours.

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry, cool and well-ventilated place. Avoid high temperatures and direct sunlight. Store only in tightly closed and properly labeled containers at temperature of 10-25 °C. After opening, seal the container and store in an upright position to prevent leakage. Avoid sources of heat and fire. Keep away from food and beverages. Protect from moisture.

7.3 Specific end use(s)

No information on applications other than those mentioned in subsection 1.2.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Product does not contain components with occupational exposure limit values established on the Community level.

Basis: Commission Directive 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU.

Please check any national occupational exposure limit values in your country.

8.2 Exposure controls

Industrial hygiene

Use the product in accordance with good occupational hygiene and safety practices. Avoid contact with eyes and skin. Immediately remove contaminated clothing. In the workplace, general and / or local ventilation. When handling do not eat, drink, smoke or take medications. Before break and after work carefully wash hands.

Personal protection

During the selection of appropriate personal protective equipment, the type of hazard posed by the product, the conditions at the workplace and the way of handling the product should be taken into consideration. The used personal protective equipment must meet the requirements of Regulation (EU) 2016/425/UE and the relevant standards. The employer is obliged to provide protection measures appropriate to the activities performed and meeting all quality requirements, including their maintenance and cleaning. Any contaminated or damaged personal protective equipment must be replaced immediately.

Hand and body protection

Wear protective gloves resistant to chemicals in accordance with EN 374 and protective clothing in accordance with EN 13688. Recommended glove material: PVC, butyl rubber, nitrile rubber, neoprene, viton.

In case of short-term exposure: recommended gloves with protection class 3 or higher.

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In case of prolonged contact: recommended gloves with protection class 5 or higher.

Material of gloves must be impermeable and resistant to the product. Material selection should be made taking into account the penetration times, rates of diffusion and degradation. Moreover, the selection of suitable gloves not only depends on the material, but also on further marks of quality and varies depending on the manufacturer. From the manufacturer's advice should be obtained about the exact break through time has to be observed. It is recommended to regularly change gloves and replace them immediately if you experience any signs of wear, damage or change in appearance (color, elasticity, shape).

Eye protection

Wear tightly fitting glasses in accordance with EN 166 if there is a risk of eye contamination.

Respiratory protection

Properly fitted breathing apparatus, equipped with absorber or filter-absorber, compliant with approved standard should be used when risk assessment indicates that it is necessary.

Thermal hazards

Do not occur.

Environmental exposure controls

Prevent direct runoff into drains/surface waters. Do not contaminate surface waters and drainage ditches with chemicals or used packaging. Any spill or uncontrolled spills into surface water should be reported to the appropriate authorities in accordance with national and local regulations. Export as chemical waste in accordance with national and local regulations.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	liquid
Colour:	green
Odour	characteristic
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	> 300°C
Flammability:	not determined
Lower and upper explosion limit:	not determined
Flash point:	> 250°C
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
pH:	not determined
Kinematic viscosity:	not determined
Solubility:	insoluble in water
Partition coefficient n-octanol/water (log value):	not determined
Vapour pressure:	not determined
Density and/or relative density (23 °C):	1,43 ± 0,05 g/cm ³
Relative vapour density:	not determined
Particle characteristics:	not applicable

9.2 Other information

Dynamic viscosity (23 °C):	thixotropic liquid
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Section 10: Stability and reactivity

10.1 Reactivity

Product is feebly reactive. See also subsections 10.3-10.5.

10.2 Chemical stability

The product is stable under normal conditions of use and storage.

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10.3 Possibility of hazardous reactions

Hazardous reactions are not known.

10.4 Conditions to avoid

Avoid sources of heat and direct sunlight.

10.5 Incompatible materials

Strong oxidizers.

10.6 Hazardous decomposition products

Not known.

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

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

Serious eye damage/irritation

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

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met. However, the product contains component that may cause allergic reactions in contact with skin in susceptible individuals.

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.

Aspiration hazard

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

Information on likely routes of exposure

Routes of exposure: skin contact, eye contact, inhalation, ingestion. For more information – see subsection 4.2.

Symptoms related to the physical, chemical and toxicological characteristics

No data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

No data.

11.2 Information on other hazards

Endocrine disrupting properties

The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 (3) or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 % by weight.

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Other information

Not applicable.

Section 12: Ecological information

12.1 Toxicity

Product is not classified as hazardous for the environment.

12.2 Persistence and degradability

No data for the mixture.

12.3 Bioaccumulative potential

No data.

12.4 Mobility in soil

Product is insoluble in water. Mobility of components of the mixture depends on the hydrophilic and hydrophobic properties and biotic and abiotic conditions of soil, including its structure, climatic conditions, seasons and soil organisms.

12.5 Results of PBT and vPvB assessment

Components of the mixture do not meet the PBT or vPvB criteria.

12.6 Endocrine disrupting properties

The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 (3) or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 % by weight.

12.7 Other adverse effects

This product has no influence on the global warming or the ozone layer depletion.

Section 13: Disposal considerations

13.1 Waste treatment methods

Disposal methods for the product: disposal in accordance with the local legislation. Do not empty into drains. Store residues in tightly sealed, steel containers. Waste code should be given in the place of waste formation.

Disposal methods for used packing: reuse / recycle / eliminate empty containers in accordance with the local legislation. Only completely empty containers can be reused.

Legal basis: Directive 2008/98/EC as amended and 94/62/EC as amended.

Section 14: Transport information

14.1 UN number or ID number

Not applicable, product is not hazardous during transport.

14.2 UN proper shipping name

Not applicable.

14.3 Transport hazard class(es)

Not applicable.

14.4 Packing group

Not applicable.

14.5 Environmental hazards

Not applicable

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14.6 Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

Section 15: Regulatory information

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

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (as amended).

Commission Regulation (EU) No 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives as amended.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste as amended.

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC.

Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC as amended.

Commission Directive 2017/164/EU of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU.

Commission Directive 2019/1831/EU of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

15.2 Chemical safety assessment

Chemical safety assessment is not required for mixtures.

Section 16: Other information

Full text of indicated H- phrases mentioned in section 3

H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

Explanation of abbreviations and acronyms

PBT	Persistent, Bioaccumulative and Toxic
vPvB	very Persistent, very Bioaccumulative
Skin Sens. 1B	Skin sensation category 1B
Aquatic Chronic 3	Hazardous to the aquatic environment - chronic hazard category 3

Trainings

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo proper workplace training.

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Key literature references and data sources

This SDS was prepared on the basis of the SDS of the individual components, literature data, online databases (e.g. ECHA, TOXNET, COSING) as well as our knowledge and experience, taking into account current legislation.

Classification and procedures used to classify the mixture

Classification was based on data on content of hazardous substances using calculation method under the guidance of Regulation 1272/2008/EC (CLP) as amended.

Other data

Changes: Section 1-16

Safety Data Sheet made by: **THETA Consulting Sp. z o.o.** (based on the manufacturer's data)

The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are to be treated as aid to safety in transport, storage and usage of the product. That does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field.