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

Trade name: **TETRAPUR 137 COMPONENT A**

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

Relevant identified uses: polyurethane screed.

Uses advised against: not determined

1.3 Details of the supplier of the safety data sheet

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

Address: ul. 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@thetaconsulting.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.

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 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.

3.2 Mixtures

Product based on castor oil [CAS 8001-79-4] and propoxylated propan-1,2-diol [CAS 25322-69-4]. Product does not contain components for which workplace exposure limits on the European Union level were established.

Section 4: First aid measures

4.1 Description of first aid measures

Skin contact: take off contaminated clothing. Wash skin 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 casualty to fresh air, keep warm and clam. Consult a doctor in case of disturbing symptoms occur.

4.2 Most import ant symptoms and effects, both acute and delayed

Skin contact: in case of a prolonged contact with the product may cause redness, dryness.

Eye contact: possible redness, tearing, burning sensation.

After ingestion: possible abdominal pain, nausea, vomiting.

After inhalation: possible irritation of the respiratory tract, cough.

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. Symptomatic treatment.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: CO_2, extinguishing powder, extinguishing foam.

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

5.2 Special hazards arising from the substance or mixture

During combustion harmful vapours eg. carbon 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.

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 inflammable liquid absorbing materials (eg. sand, universal binding substances, silica, vermiculite etc.) and place it in properly labeled containers. Treat collected material as a waste. Clean and ventilate contaminated place.

6.4 Reference to other sections

Appropriate conduct with waste product – section 13. Appropriate personal protective equipment – 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 the workplace.. Do not breathe vapours.

7.2 Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Avoid elevated temperatures and direct sunlight. Store only in tightly closed and properly labeled containers. Opened container should be resealed and kept upright to prevent leakage. Avoid sources of heat and fire. Do not store with food and feeding stuffs. Recommended storage temperature: 10-25ºC.

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 European Union 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

Appropriate engineering controls

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

Individual protection measures, such as personal protective equipment

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 (EN 374) and protective clothing (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.
In case of prolonged contact: recommended gloves with protection class 5 or higher.

When using protective gloves during work with chemical products, it should be noted that the efficacy levels and corresponding breakthrough times do not indicate actual times of protection at a particular workplace, because the protection can be affected by many factors, e.g. temperature, other substances etc. If there are any signs of degradation, damage or change in appearance (colour, flexibility, shape), it is recommended to replace the gloves with a new pair. Please follow the manufacturer's instructions, not only in terms of gloves' usage, but also in terms of their cleaning, maintenance and storage. It is also important to know how to take off the gloves in order to avoid hands contamination

Eye protection

Use tightly protective glasses if there is a risk of eye contamination (EN 166).

Respiratory protection

A properly fitted, self-contained breathing apparatus or air filter should be used when a risk assessment indicates this 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:	red
Odour	characteristic
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Flammability:	non-flammable product
Lower and upper explosion limit:	not determined
Flash point:	not determined
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
pH:	not determined
Kinematic viscosity:	not determined
Solubility:	not determined
Partition coefficient n-octanol/water (log value):	not determined
Vapour pressure:	not determined
Density and/or relative density (23 °C):	1,65 g/cm^3
Relative vapour density:	not determined
Particle characteristics:	not applicable

9.2 Other information

Dynamic viscosity (23 °C):	16000 ± 500 mPa·s

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.

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.

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 on the effects from each possible route of the exposure, see subsection 4.2.

Symptoms related to physical, chemical and toxicological properties

See subsection 4.2.

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

See subsection 4.2.

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 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 % by weight.

Other information

Not known.

Section 12: Ecological information

12.1 Toxicity

Product is not classified as hazardous for the aquatic environment.

12.2 Persistence and degradability

No data for the mixture.

12.3 Bioaccumulative potential

No data.

12.4 Mobility in soil

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 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 applicable regulations. Do not empty into drains. Store residues in original containers. Waste code should be given in the place of its formation.

Disposal methods for used packing: recover / recycle / eliminate packaging waste in accordance with applicable regulations. Reusable packaging can be further used after cleaning.

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 dangerous 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

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 (Text with EEA relevance) 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.

Regulation (EU) No 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.

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.

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.

15.2 Chemical safety assessment

Chemical safety assessment is not required for mixtures.

Section 16: Other information

Explanation of abbreviations and acronyms

PBT	Persistent, Bioaccumulative and Toxic
vPvB	very Persistent, very Bioaccumulative

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.

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.

2 Other data

Version: 2.0/EN
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.