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

Nazwa handlowa: **TETRAPUR 90, 91 COMPONENT A**

UFI: 7S30-705E-Y00Q-XYMD

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

Relevant identified uses: two-component, solvent-based polyurethane lacquer for finishing indoor and outdoor flexible sports surfaces.

Uses advises 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: +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

Flam. Liq. 3 H226

Flammable liquid and vapour.

2.2 Label elements

Hazard pictograms and signal words

WARNING

Names of substances mentioned on label

None.

Hazard statements

H226 Flammable liquid and vapour.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P501 Dispose of contents/container to properly labeled containers for selective waste collection emptied by an authorised company.

Additional labelling

EUH208 Contains dibutyltin dilaurate; fatty acids, C14-18 and C16-18-unsatd., maleated. May produce an allergic reaction.

2.3 Other hazards

Product does not contain ingredients, which meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

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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

2-methoxy-1-methylethyl acetate

Concentration range:	25-40%
CAS number:	108-65-6
EC number:	203-603-9
Index number:	607-195-00-7
Registration number:	01-2119475791-29-XXXX
Classification:	Flam. Liq. 3 H226

Substance with a specific value at the European Union level of the permissible concentration in the work environment.

fatty acids, C14-18 and C16-18-unsatd., maleated

Concentration range:	< 0,25%
CAS number:	85711-46-2
EC number:	288-306-2
Index number:	-
Registration number:	01-2119976378-19-XXXX
Classification:	Skin Irrit. 2 H315, Skin Sens. 1 H317, Eye Irrit. 2 H319

xylene

Concentration range:	< 0,25%
CAS number:	1330-20-7
EC number:	215-535-7
Index number:	601-022-00-9
Registration number:	01-2119488216-32-XXXX
Classification:	Flam. Liq. 3 H226, Acute Tox. 4 H332, Acute Tox. 4 H312, Skin Irrit. 2 H315, Acute Tox. 4 H332, STOT RE 2 H373, Asp. Tox. 1 H304, Aquatic Chronic 3 H412

Substance with a specific value at the European Union level of the permissible concentration in the work environment.

dibutyltin dilaurate

Concentration range:	< 0,2%
CAS number:	77-58-7
EC number:	201-039-8
Index number:	050-030-00-3
Registration number:	-
Classification:	Skin Corr. 1C H314, Skin Sens. 1 H317, Muta. 2 H341, Repr. 1B H360FD, STOT SE 1 H370, STOT RE 1 H372 (immune system), Aquatic Acute 1 H400 (M=1), Aquatic Chronic 1 H410 (M=1)

2-methoxypropyl acetate

Concentration range:	< 0,2%
CAS number:	70657-70-4
EC number:	274-724-2
Index number:	607-251-00-0
Registration number:	-
Classification:	Flam. Liq. 3 H226, Repr. 1B H360D, STOT SE 3 H335

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: take off contaminated clothing. Wash the contaminated skin with water and soap. Consult a doctor if disturbing symptoms occur.

Eye contact: consult a doctor, if disturbing symptoms occur, show the container or label. Protect non-irritated eye, remove contact lenses. Rinse contaminated eyes with plenty of water for 10-15 minutes. Avoid strong stream of water – risk of damage of the cornea.

Ingestion: do not induce vomiting. Rinse mouth with water. Do not consume alcohol! Never give anything by mouth to an unconscious person. Call a doctor immediately and show container or label.

Inhalation: consult a doctor immediately. Remove the victim to fresh air, keep warm and calm.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact: in case of prolonged contact redness, drying or other skin changes.

Eye contact: possible redness, tearing, burning.

After ingestion: possible abdominal pain, nausea, vomiting.

After inhalation: may cause irritation of the respiratory tract, sore throat, coughing, headache and dizziness.

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: carbon dioxide, extinguishing powder, extinguishing foam, sand, water spray.

Unsuitable extinguishing media: water jet.

5.2 Special hazards arising from the substance or mixture

During combustion harmful vapours and gases consisting of e.g. carbon oxides and other unidentified products of thermal decomposition may be produced. Do not inhale combustion products, it may cause health risk.

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. Do not let them enter the sewage system, surface water and groundwater. Flammable liquid and vapour. In case of fire cool endangered containers with water fog from safe distance. 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 large spills, isolate the area at risk. Use personal protective equipment. Avoid eyes and skin contamination. Ensure adequate ventilation.

Do not breathe vapours. Remove all sources of ignition and naked flames. Do not use sparking tools. Warning! Risk of slipping on a 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 relevant emergency services.

6.3 Methods and material for containment and cleaning up

Collect the leak with non-flammable materials absorbing liquids (e.g. sand, earth, vermiculite, universal binders, silica, etc.) and place in waste containers for disposal. Clean the contaminated place.

6.4 Reference to other sections

Appropriate conduct with waste product – see section 13. Personal protection 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. Do not allow product to get into mouth. Do not breathe vapours. Ensure adequate general or/and local ventilation. Use personal protective equipment. Work away from sources of heat and fire, do not use sparking tools. Avoid electrostatic discharges.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original, properly labeled and tightly closed containers. Keep packaging away from sources of heat and ignition, protect against direct sunlight. Prohibit smoking, using open fire and sparking tools. Keep away from food, beverages, animal feed. Recommended storage temperature: 10-25 °C.

7.3 Specific end use(s)

No information about uses other than mentioned in subsection 1.2.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Specification	TWA 8 hour		STEL 15 minutes	
xylene [CAS 1330-20-7]*	221 mg/m^3	50 ppm	442 mg/m^3	100 ppm
ethylbenzene [CAS 100-41-4]*	442 mg/m^3	100 ppm	884 mg/m^3	200 ppm

* A skin notation assigned to the OEL identifies the possibility of significant uptake through the skin

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

The table above shows the maximum workplace concentration values in the European Union level.

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

Recommended control procedures

Procedures concerning the control over the dangerous components concentrations in the air and control over the air quality in the workplace - if they are available and Justified for the position - in Accordance with the European Standards, with the conditions within the exposure place and a proper test methodology adapted to the working conditions.

DNEL values for components

2-methoxy-1-methylethyl acetate [CAS 108-65-6]

For workers:

long-term exposure - systemic effects - dermal: 153,5 mg/kg

long-term exposure - systemic effects - if inhaled: 275 mg/m^3

For the general population:

long-term exposure - systemic effects - dermal: 54,8 mg/kg

long-term exposure - systemic effects - if swallowed: 1,67 mg/kg

long-term exposure - systemic effects - if inhaled: 33 mg/m^3

PNEC values for components

2-methoxy-1-methylethyl acetate [CAS 108-65-6]
fresh water – 0,635 mg/l
sea water – 0,0635 mg/l
intermittent release - 6,35 mg/l
sediment - fresh water – 3,29 mg/kg
sediment - sea water – 0,329 mg/kg
soil – 0,29 mg/kg
sewage treatment plant - 100 mg/l

8.2 Exposure controls

Appropriate engineering controls

Observe good occupational hygiene and safety practices. Do not eat, drink or smoke when using the product. Before break and after work wash hands carefully. Use protective hand creams. Avoid eyes and skin contamination. Immediately remove contaminated clothing. In the workplace, general and/or local ventilation should be provided in order to keep the concentrations of harmful substances in the air below the permissible concentration limits. If during work processes there is a risk of clothing fire on the employee - no more than 20 m in a horizontal line from the stations where these processes are performed, emergency showers (safety showers) for washing the whole body and separate showers (showers) for eye washing should be installed.

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

Use chemical-resistant protective gloves in accordance with EN 374. Recommended glove material: butyl rubber. In case of short term contact use protective gloves with effectivness level 2 or higher (permeation time > 30 minutes). In case of long term contact use protective gloves with effectivness level 6 (permeation time > 480 minutes). Wear chemical resistant gloves and protective clothing.

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 or face protection in accordance with 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. The selection of the respiratory mask should be made on the basis of the known or expected level of exposure, the danger of the product and the safety limits of the selected mask. Protection classes (class 1/protection against vapours with a concentration in the air volume not exceeding 0,1 %, class 2/protection against vapours with a concentration in the air not exceeding 0,5 %, class 3/protect against vapours at concentrations in the air volume to 1 %). In cases where the oxygen concentration is ≤ 19 % and/or maximum concentration of toxic substances in the air is ≥ 1,0 % by volume.

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:	acc. assortment
Odour	characteristic
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Flammability:	flammable product
Lower and upper explosion limit:	7 % vol. / 1,5 % vol. (2-methoxy-1-methylethyl acetate)
Flash point:	30,5°C (closed cup)
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:	1,21 g/cm^3 (23ºC)
Relative vapour density:	not determined
Particle characteristics:	not applicable

9.2 Other information

Dry matter content:	62±2%

Section 10: Stability and reactivity

10.1 Reactivity

Product is reactive. Vapours of the product may form explosive mixtures with air. See also subsections 10.3 and 10.5.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

Avoid sources of heat and direct sunlight.

10.5 Incompatible materials

Strong oxidants.

10.6 Hazardous decomposition products

Under proper use and storage of the product there are no hazardous decomposition products.

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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 sensitization

Based on available data, the classification criteria are not met. However, the product contains components 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 on the effects from each possible route of the exposure, see subsection 4.2.

Symptoms related to the physical, chemical and toxicological characteristics

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.

Data for components
biodegradation in 83%/28 days.

12.3 Bioaccumulative potential

Bioaccumulation is not expected.
2-methoxy-1-methylethyl acetate: log Po/w 1,2

12.4 Mobility in soil

The product has low mobility in soil.

12.5 Results of PBT and vPvB assessment

Substances contained in the product are not assessed as PBT and vPvB.

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

The mixture is not classified as hazardous to the ozone layer.

Section 13: Disposal considerations

13.1 Waste treatment methods

Disposal methods for the mixture: the waste product should be recycled or disposed of in authorized incineration plants or waste treatment/disposal plants in accordance with applicable regulations. Do not empty into drains. Store residues in original containers. Waste code should be given in the place of waste 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, 94/62/EC as amended.

Section 14: Transport information

14.1 UN number or ID number

UN 1263

14.2 UN proper shipping name

PAINT

14.3 Transport hazard class(es)

3

14.4 Packing group

III

14.5 Environmental hazards

Product is not classified as dangerous for the environment according to transport regulations.

14.6 Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

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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.

Commission Regulation (EU) No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

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).

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.

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

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

It is not necessary to carry out a chemical safety assessment for the mixture.

Section 16: Other information

Full text of indicated H phrases mentioned in section 3

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H360	May damage fertility or the unborn child.
H360FD	May damage fertility. May damage the unborn child.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms

Aąuatic Chronic 1, 3	Hazardous to the aquatic environment category 1,3
Flam. Liq. 3	Flammable Liquid category 3
Asp. Tox. 1	Aspiration hazard category 1
Acute Tox. 4	Acute Toxicity category 4
Eye Irrit. 2	Eye irritation category 2
Flam. Liq. 3	Flammable liquid category 3
Muta. 2	Germ cell mutagenicity category 2
Skin Corr. 1C	Skin corrosion category 1C
STOT SE 1, 3	Specific Target Organ Toxicity – single exposure category 1, 3
STOT RE 1, 2	Specific Target Organ Toxicity – repeated exposure category 1, 2
Skin Sens. 1	Skin sensation category 1
Repr. 1B	Reproductive toxicity category 1B
PBT	Persistent, Bioaccumulative and Toxic substance
vPvB	very Persistent, very Bioaccumulative substance
DNEL	Derived no-effect level
PNEC	Predicted No Effect Concentration
TWA	Time Weighted Average
STEL	Short-Term Exposure Limits

Trainings

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training. Persons related to the transportation of the dangerous goods in compliance with the ADR Agreement should be properly trained within the scope of performed tasks (general training, on-the-job training and training related to the safety issues).

Key literature references and sources of data

This SDS was prepared on the basis of on manufacturer's data, literature data, online databases (eg. ECHA, TOXNET, COSING) as well as our knowledge and experience, taking into account current legislation.

Procedures used for the mixture classification

Classification was based on physico-chemical data and on hazardous substances calculation method under the guidance of Regulation 1272/2008/EC (CLP) as amended and test results.

Additional information

Safety Data Sheet made by: **THETA Consulting Sp. z o.o.** (on the basis of producer'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.