

EPDM virgin granules vulcanised with sulphur, produced in Poland.

### STANDARD GRAIN SIZE

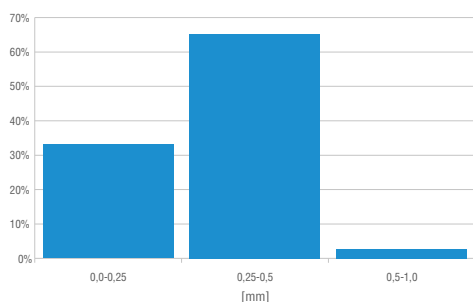
0,0 - 0,5 mm

0,5 - 1,5 mm

1,0 - 3,5 mm

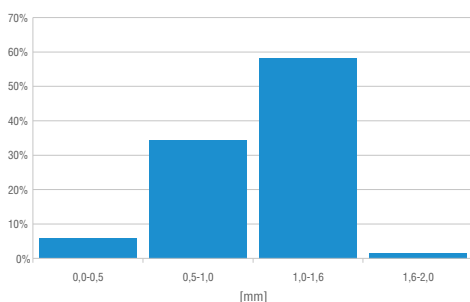
other on request

#### SIEVE ANALYSIS 0,0 - 0,5 mm



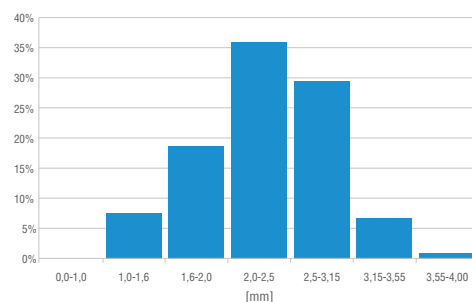
Test according to standard PN-EN 933-1:2012

#### SIEVE ANALYSIS 0,5 - 1,5 mm



Average values

#### SIEVE ANALYSIS 1,0 - 3,5 mm



### TECHNICAL DATA SHEET

Property	Value/Tolerance *	Unit	Test method
Density	1,6 +/- 0,03	[g/cm <sup>3</sup> ]	PN-ISO 2781+AC1:1996
Hardness	60 +/- 5	[°Sh A]	PN-EN 868:2005
Tensile strength	> 5	[MPa]	PN-ISO 37:2007
Elongation at break	> 500	[%]	PN-ISO 37:2007
Bulk density	0,0 - 0,5 mm approx. 450 0,5 - 1,5 mm approx. 550 1,0 - 3,5 mm approx. 670	[g/cm <sup>3</sup> ]	PN-EN ISO 60: 2011
Polymer content	> 24	[%]	
Base polymer	EPDM – ethylene propylene diene monomer rubber		

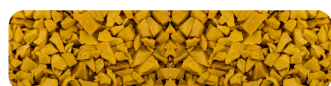
Content: EPDM - Etylen Propylen Dien Monomer, mineral fillers, paraffinic oil, vulcanising agents, additives, pigments.

Flammability class version standard:	C <sub>fl</sub> -S1	standard: PN-EN 13501-1+A1:2010
Flammability class version indoor:	B <sub>fl</sub> -S1	standard: PN-EN 13501-1+A1:2010

### ENVIRONMENTAL PARAMETERS

Standard	Result
DIN EN 71-3:2013-05 Migration of certain elements	Fulfills requirements
AfPS GS 2014:01, PAH Category 1	Fulfills requirements
DIN 18035-7, DOC, EOX, heavy metals, other	Fulfills requirements

## STANDARD COLOURS (number = approximate RAL)



Yellow 1012



Ivory 1014



Orange 2008



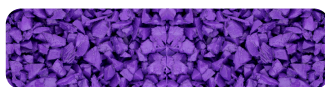
Red 3016



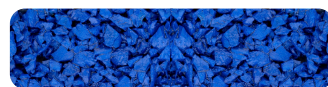
Traffic red 3020



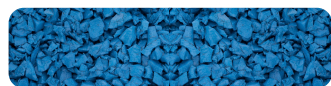
Heather violet 4003



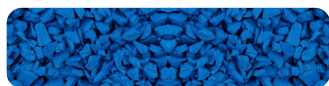
Blue lilac 4005



Gentian blue 5010



Light blue 5012



Sky blue 5015



May green 6017



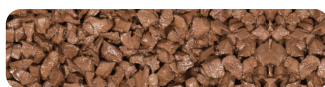
Pale green 6021



Dusty grey 7037



Agate grey 7038



Beige brown 8024



Black 9004



Pure white 9010

Photos present granules with aliphatic binder. Colour of loose product differs from photos.

Granules meet the quality requirements of sport surfaces.

The final decision on the use of granules is to surface contractor who is required to verify the quality of the product before using it.

Last update 02/2019

\* Deviations from the given values are possible. We reserve the right to make changes to the product.

**Safety data Sheet**

According to Regulation (EC) No. 1907/2006 (REACH)

Date of issue: 03.01.2018

Trade name / Substance name: **EPDM GRANULES**

(\*) concerns only chemical notification

(\*\*) either 3.1 or 3.2 must be filled

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING	
1.1	<b>Product identifier</b>
	Trade name / Substance name <b>EPDM GRANULES</b>
	REACH Registration number N/A
1.2	<b>Relevant identified uses of the substance or mixture and uses advised against</b>
	The uses of the chemical Sport surfaces, playgrounds
	Classification of economic activities (NACE) (*) N/A
	Use categories (UC62) (*) N/A
	The chemical can be used by the general public (*) N/A
	The chemical is used by the general public only (*) N/A
1.3	<b>Details of the supplier of the Safety Data Sheet</b>
	Company Zakład Przemysłu Gumowego
	STARGUM, Jan Stankiewicz
	Street address ul. Ciepłna 7
	Postcode and post office 73-110 Stargard
	Post-office box -
	Postcode and post office -
	Telephone number +48 91 578 80 08
	Telefax +48 91 577 77 68
	E-mail address biuro@stargum.pl
	Finnish Business ID (Y code) (*) -

# Safety data Sheet

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Trade name / Substance name: **EPDM GRANULES**

## 1.4 Emergency telephone number

### France Poison Information Centre

-Hopital Central 29 avenue du Marechal de Lattre de Tassigny, 54035 Nancy Cedex

+33 3 83 22 50 50

- Institut national de recherché et de securite (INRS)

+33 1 40 44 30 00

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

The substance is not classified according to CLP regulations

### 2.2 Label elements

N/A

### 2.3 Other hazards

Unknown

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 Substances (\*\*)

Main constituent / constituent	CAS-, EC- or index number	Concentration
EPDM Rubber	25038-36-2	24-26 %
Filling	1317-65-3, 1332-58-7	60 %
Additives	57-11-14, 1314-13-2	2-3 %
Softeners	848301-69-9	5-8 %
Crosslinking agents	7704-34-9, 136-23-2, 120-78-5, 137-26-8	1,0-1,5 %

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

Special measures are not necessary

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

No data is available

### 4.3 Indication of any immediate medical attention and special treatment needed

No data is available

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

CO<sub>2</sub>, extinguishing powder or spray jet

### 5.2 Special hazards arising from the substance or mixture

Do not inhale product vapors. Vapors are harmful to health

### 5.3 Advice for firefighters

In case of extensive fire or fire in a confined or poorly ventilated area use full flame retardant clothing and self-contained breathing apparatus

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<b>SECTION 6: ACCIDENTAL RELEASE MEASURES</b>	
<b>6.1</b>	<b>Personal precautions, protective equipment and emergency procedures</b> Not necessary
<b>6.2</b>	<b>Environmental precautions</b> Do not flush into public sewer or water system
<b>6.3</b>	<b>Methods and material for containment and cleaning up</b> Remove mechanically. Collect spilled material and place in suitable containers for recycling or disposal.
<b>6.4</b>	<b>Reference to other sections</b> See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
<b>SECTION 7: HANDLING AND STORAGE</b>	
<b>7.1</b>	<b>Precautions for safe handling</b> Special measures are not necessary
<b>7.2</b>	<b>Conditions for safe storage, including any incompatibilities</b> Keep away from heat, sparks and flame. No smoking, open flames or sources of ignition in handling and storage area. Store in a dry place. Storage temperature: max. 30° C
<b>7.3</b>	<b>Specific end use(s)</b> No data is available
<b>SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION</b>	
<b>8.1</b>	<b>Control parameters</b>  <b>National occupational exposure limit values</b> Not required <b>Other limit values</b> Not required <b>DNEL</b> N/A <b>PNEC</b> N/A
<b>8.2</b>	<b>Exposure controls</b>  <b>Appropriate engineering controls</b> Not necessary <b>Eye / face protection</b> Not necessary <b>Skin protection</b> Not necessary <b>Hand protection</b> Protective gloves only as a protection against dirt, made of any material <b>Respiratory protection</b> Not necessary <b>Thermal hazards</b> N/A

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES	
9.1	Information on physical and chemical properties
Appearance	Granules
Odour	Characteristic
Odour threshold	Undefined
pH	Not applicable
Melting point/freezing point	is not specified
Initial boiling point and boiling range	is not specified
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	not inflammable
Upper/lower flammability or explosive limits	Not applicable. Product is not explosive
Vapour pressure	Not applicable
Vapour density	Not applicable
Relative density	Not applicable
Density (20°C)	1,6 +/- 0,03 g/cm <sup>3</sup>
Solubility(ies) in water	Not soluble
Partition coefficient: n-octanol/water	Undefined
Auto-ignition temperature	Not applicable
Decomposition temperature	Undefined
Viscosity	is not specified
Explosive properties	Not applicable
Oxidising properties	Not applicable

**9.2 Other information**

Hardness Shore'a A 60 +/-5

Dissolves in all non-polar solvents

**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

The product is not reactive

**10.2 Chemical stability**

Stable under recommended storage conditions.

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<b>10.3</b>	<b>Possibility of hazardous reactions</b>
	Unknown
<b>10.4</b>	<b>Conditions to avoid</b>
	It is recommended to keep the product away from heat sources / open flames / hot surfaces. Avoid exposure to direct sunlight
<b>10.5</b>	<b>Incompatible materials</b>
	No data is available
<b>10.6</b>	<b>Hazardous decomposition products</b>
	No data is available

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Acute toxicity**

According to contemporary professional knowledge the product is not considered hazardous for people and it has no adverse effects on man's health. It is not regarded as dangerous according to the directive No. 1999/45/EC.

**Skin corrosion/irritation**

Based on available data, classification criteria are not met

**Serious eye damage/irritation**

Based on available data, classification criteria are not met

**Respiratory or skin sensitisation**

Based on available data, classification criteria are not met

**Germ cell mutagenicity**

Based on available data, classification criteria are not met

**Carcinogenicity**

Based on available data, classification criteria are not met

**Reproductive toxicity**

Based on available data, classification criteria are not met

**STOT-single exposure**

Based on available data, classification criteria are not met

**STOT-repeated exposure**

Based on available data, classification criteria are not met

**Aspiration hazard**

Based on available data, classification criteria are not met

**Other information**

Not applicable



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SECTION 12: ECOLOGICAL INFORMATION	
<b>12.1</b>	<b>Toxicity</b>
	The product does not endanger the environment
<b>12.2</b>	<b>Persistence and degradability</b>
	Within the environment, it is an extraneous substance with a very slow decomposition. It decays when exposed to UV radiation. It is insoluble in water
<b>12.3</b>	<b>Bioaccumulative potential</b>
	No data is available
<b>12.4</b>	<b>Mobility in soil</b>
	No data is available
<b>12.5</b>	<b>Results of PBT and vPvB assessment</b>
	The substance does not meet the criteria for PBT or vPvB according to Annex XIII of the REACH Regulation
<b>12.6</b>	<b>Other adverse effects</b>
	No data is available
SECTION 13: DISPOSAL CONSIDERATIONS	
<b>13.1</b>	<b>Waste treatment methods</b>
	Any disposal practice must be in compliance with a local and laws regulations.
SECTION 14: TRANSPORT INFORMATION	
<b>14.1</b>	<b>UN number</b>
	Not applicable
<b>14.2</b>	<b>UN proper shipping name</b>
	Not applicable
<b>14.3</b>	<b>Transport hazard class(es)</b>
	Not applicable
<b>14.4</b>	<b>Packing group</b>
	Not applicable
<b>14.5</b>	<b>Environmental hazards</b>
	Not applicable
<b>14.6</b>	<b>Special precautions for user</b>
	Not applicable
<b>14.7</b>	<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>
	Not applicable
SECTION 15: REGULATORY INFORMATION	
<b>15.1</b>	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>
	Not required
<b>15.2</b>	<b>Chemical safety assessment</b>
	European Union: Regulation of the European parliament and of the Council (EC) No. 1272/2008 and with the Directive No. 67/548/EEC/ Regulation (EC) No. 1907/2006, Regulation (EC) No. 1272/2008, Regulation (EC) No. 453/2010



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### SECTION 16: OTHER INFORMATION

#### Indication of changes

Section 1-16 – change of the MSDS design

#### Key literature references and sources for data

Employer is obliged according to the Article 35 of the Regulation of the EP and Council (EC) No.1907/2006 to make information from the Data Sheet accessible to all employees who use this product, or who are exposed to its effects during the work as well as to representatives of these employees.

#### List of relevant R-and S-phrases or/and safety and precautionary statements

R-phrases: not applicable

S-phrases: 16, 22

S 16 - Keep away from sources of ignition – No smoking

S 22 - Do not breathe dust

**Declaration:** the Safety Data Sheet has been elaborated in accordance with the Regulation of the EP and of the Council (EC) No. 453/2010 and replaces the Safety Data Sheet elaborated according to the Regulation (EC) No. 1907/2006 REACH, Appendix II. It contains all data that is necessary for securing safety and health protection at work and for protection of environment. This data does not replace qualitative specification and cannot be regarded as a guarantee for suitability and usability of this product for a concrete application. All the data mentioned correspond with the contemporary knowledge and experiences and is in line with legal regulations of the EU. The purchaser is responsible for observance of valid regional legal regulations.