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in accordance the Commission Regulation (EU) No. 830/2015 of 28 May 2015 amending the Regulation (EC) No. 1907/2006 of the European Parliament and Council dated December 18th, 2006 on Registration, Evaluation, Authorization and Restrictions of Chemicals (REACH) (DU European Union series L No. 132/8 of May 29<sup>st</sup>, 2015)

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# 1 SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

DroGum.

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

<u>Identified uses:</u> The modifier of mineral and asphalt mixtures

Uses advised against: None identified.

1.3 Details of the supplier of the safety data sheet

ORZEŁ S.A.

ul. Przemysłowa 50

24-320 Poniatowa

tel.+48 (81) 475 57 00

fax +48 (81) 475 57 04

E-mail: <a href="mailto:granulat@orzelsa.com">granulat@orzelsa.com</a>

Person responsible for the document: Małgorzata Krenke

e-mail: biuro@frc.com.pl

1.4 Emergency telephone number

Nationwide emergency telephones (8:00 - 16:00): +48 81 475 57 00

112 (emergency call)

# 2 SEKCJA 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

# Classification according to Regulation (EC) No 1272/2008

Physical and chemical hazards:

This mixture does not present a physical hazard. Refer to the Recommendations regarding to the other products present on the site.

**Health hazards** 

This mixture does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).

**Environmental hazards:** 

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram

Not applicable

Signal word:

Not applicable

Hazard statement(s)

Not applicable

Precautionary statement(s)

Not applicable

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## 2.3 Other hazards

Possible toxic emissions in smoke when the material is at an elevated temperature.

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European. Chemicals Agency (ECHA) under article 57 of REACH: <a href="http://echa.europa.eu">http://echa.europa.eu</a>. The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

# 3 SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

## 3.1 Substances:

Not applicable

## 3.2 Mixtures:

Components of the mixture: The product consists of crumb rubber originated from recycled tires and finishing additive.

Name and registration number	Index number	CAS No.	EC No.	Weight fractio n %	Classification in line with The Regulation (EC) No. 1272/2008		
					Warning sign	Risk classes and category codes	Codes of H phrases
Copper oxide (II) Registration number: 01- 2119502447-44- xxxx		1317-38-0	215-269-1	<0,01	GHS09 Wng	Aquatic Acute 1 Aquatic Chronic 1 M=100 M(Chronic)=1	H400 H410

Due to their concentration in the mixture, other ingredients do not have to be included in the classification or do not have harmful parameters or they are not the ingredients that have to be monitored.

Full H phrases are specified in point 16 hereof.

## 4 SECTION 4: FIRST AID MEASURES

# 4.1 Description of first aid measures

<u>If inhaled</u>: Take the victim out of the exposure area, place them in a comfortable half-sitting or

lying position, provide calm and protect against heat loss. If needed, seek medical help

<u>In case of skin contact:</u> Wash off with soap and plenty of water.

In case of eye contact: Rinse immediately with plenty of cool, running water and continue rinsing for at least

15 minutes. Remove contact lenses. Do not use heavy streams of water to avoid

cornea damage. If the irritation persists, consult an eye-doctor.

<u>If swallowed:</u> Never give anything by mouth to an unconscious person. Rinse mouth with water.

in accordance the Commission Regulation (EU) No. 830/2015 of 28 May 2015 amending the Regulation (EC) No. 1907/2006 of the European Parliament and Council dated December 18th, 2006 on Registration, Evaluation, Authorization and Restrictions of Chemicals (REACH) (DU European Union series L No. 132/8 of May 29<sup>st</sup>, 2015)

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

The mixture is not harmful to health

<u>Skin contact:</u> No symptoms. Eye contact: No symptoms.

After ingestion: If swallowed, can cause problems gastrointestinal.

<u>After inhalation:</u> Prolonged inhalation of vapors, dusts may cause slight irritation of the respiratory tract (cough, sore throat), headache and dizziness.

4.3 Indication of any immediate medical attention and special treatment needed

In the workplace should be available measures for first aid before medical

## 5 SECTION 5: FIREFIGHTING MEASURES

# 5.1 Extinguishing media

Suitable extinguishing media:

Foam, powder, carbon dioxide, water in spray.

Unsuitable extinguishing media:

Jet water.

5.2 Special hazards arising from the substance or mixture

During combustion, toxic substances can be produced .

5.3 Advice for firefighters

Wear gas resistant protective clothing and respiratory protections regardless of the air in the atmosphere. Containers not consumed by fire but exposed to fire should be cooled down with sprayed water and removed from the risk area, if possible.

## 6 SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures
- 6.1.1 For non-emergency personnel

Take unprotected persons out of the risk area. Avoid direct contact with the mixture. Do not inhale dust.

6.1.2 For emergency responders

Ensure that breakdown and its results are only trained personnel. Use personal protective equipment.

6.2 Environmental precautions

Do not allow spreading or leaking into sewage systems, water and soil.

- 6.3 Methods and material for containment and cleaning up
- 6.3.1 Protect drains. If possible contain (ex. with an industrial vacuum cleaner), and avoid forming dust. Place damaged packaging in a replacement packaging.
- **6.3.2** Small amounts can be collected mechanically, put into in a properly closed and labelled waste container, then recycled or liquidated. Rinse the contamination area with water.
- 6.3.3 No information available.
- 6.4 Reference to other sections

Liquidate as specified in section 13.

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in accordance the Commission Regulation (EU) No. 830/2015 of 28 May 2015 amending the Regulation (EC) No. 1907/2006 of the European Parliament and Council dated December 18th, 2006 on Registration, Evaluation, Authorization and Restrictions of Chemicals (REACH) (DU European Union series L No. 132/8 of May 29<sup>st</sup>, 2015)

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#### 7 SECTION 7: HANDLING AND STORAGE

# 7.1 Precautions for safe handling

# 7.1.1

Ensure proper ventilation. Open and handle containers with care. Apply all necessary safety measures to avoid contact with skin or eyes. Do not breathe in dust. Do not allow spreading or leaking into sewage systems, water or soil.

#### 7.1.2

Do not drink, eat or smoke while handling the product. Wash your hands during breaks and after work. Remove immediately contaminated clothes and wash before wearing again.

# 7.2 Conditions for safe storage, including any incompatibilities

Store in original tightly closed and properly labelled packaging, in cool, dry ventilated storehouse 25 °C.

# 7.3 Specific end use(s)

It modifies the mixtures of minerals and asphalt. No information on other uses.

# 8 SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

# 8.1 Control parameters

Copper and compounds Cu (the convert. Cu) PL: NDS 0.2 mg / m<sup>3</sup>

Predicted no-effect concentration (PNEC)

PNEC Fresh water 7.8 mg / I PNEC sea water: 5.2 mg / I

PNEC sewage treatment plant: 230 g / l PNEC sediment of freshwater: 87 mg / kg PNEC sediment marine waters: 676 mg / kg

PNEC soil 65 mg/kg

#### Legal basis:

The Regulation of the Minister of Labour and Social Policy of June 6<sup>th</sup>, 2014 on maximal authorised concentrations and intensity of factors harmful to health in work environment (Dz. U. poz. 817.)

The Regulation of the Minister of Health of 2 February 2011. On tests and measurements of health hazard factors in the work environment (Dz. U. No. 33, item. 166, 2011).

The Regulation of the Minister of Health of 30 December 2004. On occupational health and safety related to occurrence of chemical agents at work (Dz. U. No. 11, pos. 86, 2005).

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

# Recommended monitoring procedures

Monitoring procedures should be used fot concentrations of hazardous components in the air. Air quality control procedures should be used in the workplace - as long as they are available and reasonable for the job - in accordance with the relevant Polish or European Standards, taking into account the conditions prevailing at the site of exposure and corresponding measurement methodologies adapted to the conditions work. Mode, type and

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frequency of tests and measurements should meet the requirements of the Regulation of the Minister of Health on 2 February 2011. (Dz. U. 2011 No. 33, item. 166).

## 8.2 Exposure controls

# 8.2.1 Appropriate engineering controls

Necessary local and general ventilation. Ventilation inlets close to working area or below. General ventilation outlets in upper and lower parts of premises. In case of poor ventilation, use respiratory system protection. Showers and places to rinse eyes must be ensured.

# 8.2.2 Individual protection measures, such as personal protective equipment

Respiratory system: Not required. In case of heavy dusting, use mask with a filter of P class (white).

Hands and skin: Wear protective clothing made of natural (cotton) or synthetic materials, gloves made

of nitric rubber, chloroprene rubber, polyvinyl chloride

Eyes: Use protective goggles and face mask to avoid dust.

Hygiene at work: Apply general hygiene at work rules. After work, remove contaminated clothes and wash thoroughly the whole body. Wash your hands and face during breaks. Restrain from drinking and eating or smoking at work.

# 8.2.3 Environmental exposure controls

Protect against leaking into communal sewage systems and water.

# 9 SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Information on basic physical and chemical properties
  - a) Appearance

Granules in colour black

b) Odour

Mild

c) Smell threshold

Information unavailable

d) pH

Not determined

e) Melting/clotting point

Information unavailable

f) Initial boiling point and boiling range

Information unavailable

g) Flash point 232 °C lit.

h) Evaporation rate

Information unavailable

i) Flammability

Inapplicable

j) Upper/lower flammability or explosive limits;

No hazardous explosive.

in accordance the Commission Regulation (EU) No. 830/2015 of 28 May 2015 amending the Regulation (EC) No. 1907/2006 of the European Parliament and Council dated December 18th, 2006 on Registration, Evaluation, Authorization and Restrictions of Chemicals (REACH) (DU European Union series L No. 132/8 of May 29<sup>st</sup>, 2015)

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k) Vapour pressure Information unavailable

Vapour densityInformation unavailable

m) Relative density Information unavailable

n) Solubility

Insoluble- in water

- o) Partition coefficient: n-octanol/water Information unavailable.
- p) Auto-ignition temperature Product is not explosive.
- q) Decomposition temperature Information unavailable.
- r) Viscosity at temp. 175 ° C [Pa \* s] 1,5-5,0 – lit.
- s) Explosive properties
  The product is not explosive.
- t) Oxidising properties Information unavailable.
- 9.2 Other information Softening point in MC [° C]: 54 ° C lit

## 10 SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No reactivity under recommended storage and handling conditions.

10.2 Chemical stability

Stable under recommended storage and usage conditions.

10.3 Possibility of hazardous reactions Unknown.

10.4 Conditions to avoid

Unknown.

10.5 Incompatible materials Unknown.

10.6 Hazardous decomposition products Unknown.

## 11 SECTION 11: TOXICOLOGICAL INFORMATION

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in accordance the Commission Regulation (EU) No. 830/2015 of 28 May 2015 amending the Regulation (EC) No. 1907/2006 of the European Parliament and Council dated December 18th, 2006 on Registration, Evaluation, Authorization and Restrictions of Chemicals (REACH) (DU European Union series L No. 132/8 of May 29<sup>st</sup>, 2015)

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# 11.1 Information on toxicological effects

## Acute toxicity of mixtures

ATE MIX oral (mg / kg):>2000,00 [The estimated]

ATE MIX skin (mg / kg):> 2000,0 [The estimated]

ATE MIX inhalation (mg/I/4h):> 20.0 [The estimated]

#### Acute toxicity of product:

## Irritation/corrosivity:

Skin: Based on available information, classification criteria are not met.

Eyes: Based on available information, classification criteria are not met.

#### Respiratory or skin sensitisation

Based on available information, classification criteria are not met..

#### Germ cell mutagenicity

No data available

## Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

## Reproductive toxicity

Based on available information, classification criteria are not met.

#### Specific target organ toxicity - single exposure

Based on available information, classification criteria are not met.

## Specific target organ toxicity - repeated exposure

Based on available information, classification criteria are not met.

#### Aspiration hazard

Based on available information, classification criteria are not met.

## 12 SECTION 12: ECOLOGICAL INFORMATION

# 12.1 Toxicity

The mixture is not classified as hazardous to the environment.

#### 12.2 Persistence and degradability

For mixtures not specified

# 12.3 Bioaccumulative potential

For mixtures not specified

# 12.4 Mobility in soil

For mixtures not specified. It is not determined for the mixture. The mobility of the substance depends on their hydrophilic and hydrophobic properties and abiotic and biotic conditions of soil, including its structures, climatic conditions, seasons (in Poland, in a variable moderate climate) and soil organisms, mainly (bacteria, fungi, algae, invertebrates).

# 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

## 12.6 Other adverse effects

The mixture is not classified as hazardous to the ozone layer. There should be considered the possibility of other harmful effects of the individual components of the mixture on the environment. (eg. the ability of disrupting endocrine, the impact of global warming potential). The release of large quantities of product water causes a decrease in pH.

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# 13 SECTION 13: DISPOSAL CONSIDERATIONS

## 13.1 Waste treatment methods

Waste code:

Do not dispose of the product with commercial waste. Do not allow entering into sewage system. No dot allow pollution of surface and ground waters. Do not store at municipal landfill sites. Consider the possibility of use.

Dispose in accordance with applicable regulations.

## Legal basis:

Law of December 14<sup>th</sup>, 2012 on waste (Journal of Laws No. 0, item 21, 2012 as amended);

Law of June 13<sup>th</sup>, 201 on packaging and packaging waste (Journal of Laws No. 0, item 888, 2013);Regulation of the Minister of Environment dated September 29<sup>th</sup>, 2014 on waste catalogue (Journal of Laws No. 0, item 1923, 2014).

## 14 SECTION 14: TRANSPORT INFORMATION

14.1 UN number

Inapplicable

14.2 UN proper shipping name

Inapplicable

14.3 Transport hazard class (es)

Inapplicable

14.4 Packing group

Inapplicable

14.5 Environmental hazards

The environmental impact as specified in the criteria of the UN model regulations

14.6 Special precautions for user

None

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Inapplicable

# 15 SECTION 15: REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- 1907/2006/EC Regulation on Registration, Evaluation, Authorisation 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

in accordance the Commission Regulation (EU) No. 830/2015 of 28 May 2015 amending the Regulation (EC) No.

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2. **1272/2008/EC** of the Regulation of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures - amending and repealing Directive 67/548/EEC and 1999/45/EC, and Regulation (EC) No 1907/2006.

- 3. **790/2009/EC** of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.
- 4. **2008/98/EC** Directive of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives
- 5. **94/62/EC** Commission Directive 2013/2/EUof 7 February 2013;amending Annex I to Directive 94/62/EC of the European Parliament and of the Council on packaging and packaging waste
- 6. **2015/830/EU** Commission Regulation (EU) 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)
- 15.2 Chemical safety assessment

The supplier has not assessed chemical safety It is not required for the mixture.

#### 16 SECTION 16: OTHER INFORMATION

#### Other sources of information:

IUCLID Data Bank (European Commission – European Chemicals Bureau).

ESIS – European Chemical Substances Information System (European Chemicals Bureau).

The information above is based on the currently available data concerning the product and the experience and knowledge in this field of the producer.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Orzeł S.A shall not be held liable for any damage resulting from handling or from contact with the above product

The drafter card: Małgorzata Krenke Card issued by: "Feed Reach Consulting"

# H (hazard) phrases specified in point 2 and 3 hereof:

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

Aquatic Acute 1 Hazardous to the aquatic environment (Category 1)

Aquatic Chronic 1 Hazardous to the aquatic environment (Category 1)

NDS = maximum concentration at the workplace (TLV-TWA) (OEL-TWA) (PEL-TWA)

TWA = maximum instantaneous concentration (TLV-STEL)

NDSP = maximum concentration limits (TLV-CL)

CAS no. Chemical abstracts Service

EC no. means one of the three numbers provided below:

(EINECS): number assigned to the substance in the European Inventory of Existing Commercial Chemical

Substances.

(ELINCS): number assigned to the substance on the European List of Notified Chemical substances.

(NLP): number on the list of chemical substances "No Longer Polymers".

GHS Globally Harmonised System of Classification and Labelling of Chemicals.

in accordance the Commission Regulation (EU) No. 830/2015 of 28 May 2015 amending the Regulation (EC) No. 1907/2006 of the European Parliament and Council dated December 18th, 2006 on Registration, Evaluation, Authorization and Restrictions of Chemicals (REACH) (DU European Union series L No. 132/8 of May 29<sup>st</sup>, 2015)

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UN number Identification number of the material.

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID Regulations Concerning International Transport of Dangerous Goods by Rail.

IMDG International Maritime Dangerous Goods Code.

IATA International Air Transport Association.
ICAO International Civil Aviation Organisation.

MARPOL International Convention for the Prevention of Marine Pollution from Ships.

MARPOL "P" The product is included in the code because of it pollution hazards.

EmS Emergency Response Procedures for Ships carrying Dangerous Goods.

EmS "F-A" Fire Schedule "Alpha": General Fire Schedule EmS "S-A" Spillage Schedule "Alpha": Toxic substances

**Training** 

Prior to working with the product you should be familiar with safety rules for handling the chemicals, in particular take proper workplace training.