

Release date: 2005-06-20
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2013-06-26, 2013-12-03,
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Characteristic Sheet

Card in accordance with Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of December 18, 2006 (REACH), as amended by COMMISSION REGULATION (EU) 2020/878 of June 18, 2020.

SECTION 1 : Identification of the substance/mixture and identification of the company.

1.1. Product ID.

Trade name: **Abrasive POLGRIT**

Chemical name, other names : Copper slag

EC number (EINECS): 266-968-3

CAS number : 67711-92-6

Index number: N/A

REACH registration number: 01-2119513228-45-XXXX

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

Relevant applications: abrasive for blast cleaning.

Uses advised against: unknown.

1.3. Details of the supplier of the safety data sheet.

Łukasiewicz Research Network – Institute of Non-Ferrous Metals Division in Legnica
PL 59-220 Legnica, street Złotoryjska 89

Abrasives Production Department (smelter site "Głogów")
PL 67-200 Głogów, Żukowicka 1 Street
Phone No. +48 76 757 67 44

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e-mail: biuro.polgrit@imn.lukasiewicz.gov.pl

1.3.1 Name of responsible person:

Justyna Byczkowicz
Phone no. +48 76 757 67 44
e-mail: justyna.byczkowicz@imn.lukasiewicz.gov.pl

1.4. Emergency phone number.

+48 76 757 67 44 or +48 603 307 245 (from Monday to Friday from 6.00 a.m. to 3:00 p.m.)

998 – the nearest unit of the State Fire Service

SECTION 2 : Identification of risks.

2.1. Classification of the substance or mixture.

Based on **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 1907/2006, the substance is not classified as hazardous.

2.2. Signage elements.

Not subjected to labelling.

2.3. Other hazards.

Polgrit does not meet the criteria for classification as a PBT substance.

May cause mechanical irritation of the body, dusting of the eyes and respiratory tract. Does not pose a risk to the environment.

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Abrasive requirements and testing.

1. Requirements.

According to the regulations on the safety of blasting operations (German "Strahlarbeiten" - VGB 48 of 01.04-1994), when using non-silicogenic abrasives, the content of free crystalline silicic acid (quartz, cristobalite, tridymite) in the abrasive must not exceed 2% by weight. In addition, it must be ensured that the sum of all toxic and carcinogenic metals or their compounds contained in the abrasive (calculated in each case as metal content, chromates are calculated as CrO₃) must not exceed 2 wt%. In addition, for carcinogenic metals and their compounds, the rule is that their content (calculated in each case as metal content, chromates are calculated as CrO₃) must not exceed 0.2% by weight. The content of cadmium and cobalt (calculated as metal content) and chromates (calculated as CrO₃ content) must not exceed 0.1 percent by weight in each case.

2. Scope of the study and research method.

The tests were carried out by the Quality Research Center in Lubin and were performed using atomic absorption and infrared absorption spectrometry methods (test report No. WBJ-1-51-5-424-2013).

3. Research results.

Mineralogical and chemical analyses of the Polgrit abrasive showed the content in weight percent:

Substance tested	Sb	Pb	Cd	Zn	As	Cr	Co	Ni
contents %	0,0004	0,9	0,0004	0,77	0,0106	0,0344	0,0702	0,0119

a) silicogenic components

Quartz	< 1 %
Crystobalite	-
Tridymite	-
Sum of silicogenic components: (free crystalline silicic acid)	< 1 %

b) toxic components

Antimony Sb	0,0004 %
Lead Pb	0,9 %

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Cadmium Cd	0,0004 %
Zinc Zn	0,77 %
Sum of toxic components	< 2 %
c) carcinogenic components	
Arsenic As	
Chromiany	
Cobalt Co	
Nickel Ni	
Sum of carcinogenic components:	< 1 %

Based on the analyses submitted, the permissible limit value is

- silicogenic components	<u>not exceeded</u>
- arcinogenic components	<u>not exceeded</u>
- carcinogenic and toxic components	<u>not exceeded</u>

No additional labeling requirements.

SECTION 3: Composition/information on ingredients.

3.1. Substances.

Name of the substance	Percentage content	Hazard classification according to the Regulation No. 1272/2008
Decopperisation slag CAS No.: 67711-92-6 Index no: nie dotyczy Registration No.: 01-2119513228-45-XXXX	100 %	Not classified

Chemical composition

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SiO ₂ [%]	CaO [%]	Fe [%]	Al ₂ O ₃ [%]	MgO [%]	Pb [%]	Zn [%]	Cu [%]	Co [%]	Sog. [%]	As [%]	Ag [ppm]
35,95	19,63	10,69	8,92	5,50	0,92	0,72	0,65	< 0,1	0,022	0,0055	5

3.2. Mixtures.

N/A

SECTION 4 : First aid measures.

4.1. Description of first aid measures.

Respiratory tract: Protect respiratory tract, eyes and skin from secondary dust. In case of exposure to vapors or dusts, move out to fresh air, lay the patient down, seek medical advice if discomfort persists.

Gastrointestinal tract: Rinse the mouth thoroughly. Give 200-300 ml of water to drink. Do not induce vomiting. Get medical attention if discomfort persists.

Eye contact: The substance is not irritating to the eyes. If eye irritation occurs, apply general measures. Do not rub eyes. Remove any contact lenses. Flush eyes thoroughly with water, taking care to rinse under eyelids. If irritation persists, continue rinsing for 15 minutes, occasionally rinsing eyelids. If discomfort persists, consult a doctor.

Skin contact: the substance is not irritating to the skin and does not sensitize the skin. In case of contact with the material, use general hygiene measures: wash with soap and warm water. In case of contact with melted product, cool quickly with water and seek medical help immediately. Do not attempt to remove the melted product from the skin, as the skin tears easily. Treat wounds or abrasions immediately by thoroughly cleaning the affected area.

4.2. Most important acute and delayed symptoms and effects of exposure.

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Routes of exposure:

- digestive tract: N/A
- respiratory tract: N/A
- eye contact: N/A
- skin contact: N/A

Acute poisoning symptoms : N/A

Long-term exposure: N/A

4.3. Indication of any immediate medical attention and special treatment of the victim:

If the victim is unconscious, make sure the airway is clear and place the victim in the lateral position. Provide medical assistance.

SECTION 5 : Fire procedure.

5.1. Extinguishing media.

5.1.1. Suitable extinguishing media:

Non-flammable material. Use extinguishing agents suitable for surrounding material.

5.1.2. Unsuitable extinguishing media:

Do not use water on molten metal: this may cause an explosion hazard.

5.2. *Special hazards associated with the substance or mixture.*

N/A

5.3. *Information for firefighters.*

Non-flammable material. Wear self-contained breathing apparatus and full protective clothing in case of fire.

SECTION 6 : Accidental release measures.

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6.1. Personal precautions, protective equipment and emergency procedures.

6.1.1. For non-assistance personnel.

No specific requirements.

6.1.2. For those providing assistance.

No specific requirements.

6.2. Environmental precautions.

No specific requirements.

6.3. Methods and materials to prevent the spread of contamination and for the removal of contamination.

Clean up the material manually or mechanically and protect it from dispersal, contact the manufacturer for management.

6.4. References to other sections.

Use personal protective equipment as described in section 8.2.2

Risk control measures and handling described in sections 7 and 8.

Waste handling section 13.

SECTION 7 : Handling and storage of substances and mixtures.

7.1. Safety precautions.

Prevent the formation and spread of dust. Provide adequate ventilation if dust exposure is expected. Grinding, crushing, sandblasting operations can generate dust.

Avoid contact with molten material. Do not use water on molten metal.

Avoid inhalation of dust and small particles and contact with skin and eyes. Wear appropriate clothing; protective

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equipment if necessary. Follow good industrial hygiene practices.

7.2. Conditions for safe storage, including information on any incompatibilities.

No special requirements.

7.3. Specific end use(s).

The product is intended for professional use only. Identified uses are listed in section 1.2.

SECTION 8 : Exposure controls/personal protective equipment.

8.1. Control parameters.

In accordance with the Ordinance of the Minister of Family, Labor and Social Policy dated June 12, 2018, as amended, on the maximum permissible concentrations and intensities of harmful factors for health in the work environment for substances, the following hygienic norms in the workplace have been established:

Name of the substance		
Copper and its compounds - per Cu 7440-50-8	NDS NDSCh	0,2 mg/m ³ None
Crystalline silica - quartz [14808-60-7]; cristobalite [14464-46-1]. - respirable fraction ⁶⁾	NDS NDSCh	0,1 mg/m ³ None
Dusts not classified for toxicity	NDS NDSCh	10 mg/m ³ None

NDS - LTEL
NDSCh – STEL

8.2. Exposure control.

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8.2.1. Relevant technical control measures.

Use process guards, local exhaust ventilation or other safeguards to protect the worker from exposure. Respiratory protection in case of inadequate ventilation or risk of dust inhalation. Use the personal protective equipment listed in Section 8.2.2 when working with the substance.

8.2.2. Individual protective measures such as personal protective equipment:

- a) Eye or face protection : Tight safety goggles required. Recommended safety goggles that comply with EN 166.
- b) Skin protection: Wear appropriate protective clothing. Required use of protective gloves conforming to EN388 standard.
- c) Respiratory protection: Use masks with a dust-absorbing filter (recommended type P3).
- d) Thermal hazards: When handling hot product, use appropriate heat-resistant protective gloves in accordance with EN 407 and protective clothing.

8.2.3. Environmental exposure controls.

Prevent release and comply with national emission regulations.

SECTION 9 : Physical and chemical properties

9.1. Information on basic physical and chemical properties.

- a) State of aggregation - solid
- b) Color - brown, brown-black granules
- c) Odor - odorless
- d) Melting/freezing point - 1,027 - 1,341 °C
- e) Boiling point or initial boiling point and boiling range - not accessible
- f) Flammability of materials - non-flammable

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- g) Lower and upper explosive limits – N/A
- h) Flash point – N/A
- i) Auto-ignition temperature - 239 °C
- j) Decomposition temperature - 240°C
- k) pH - 6.1 - 9.9
- l) Kinematic viscosity – N/A
- m) Solubility in water - 200 - 1,000 µg/L 30°C
- n) Partition coefficient n-octanol/water (log ratio value) – N/A
- o) Vapor pressure - 0.00239 Pa at 25°C.
- p) Density or relative density - 3.04 - 4.12 g/cm³ Temp. 20°C
- q) Relative vapor density – N/A
- r) Particle characteristics - no data.

9.2. Other information.

9.2.1. Information on the physical hazard classes.

None.

9.2.2. Other safety features.

None.

SECTION 10 : Stability and reactivity.

10.1. Reactivity.

Under normal conditions of storage and use, the substance shows no tendency to dangerous reactions.

10.2. Chemical stability.

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Stable at normal temperature and pressure.

10.3. Possibility for hazardous reactions.

No information on the possibility of hazardous reactions.

10.4. Conditions to be avoided.

No counter-indications.

10.5. Non-compatible materials.

The substance does not tend to react dangerously.

10.6. Hazardous decomposition products.

None.

SECTION 11 : Toxicological information.

11.1. Information on hazard classes as defined in Regulation (EC) No. 1272/2008.

Substance not classified as hazardous. No hazard classes have been defined based on Regulation (EC) No. 1272/2008.

11.1.1. Information for specific hazard classes.

None.

11.1.2. Data relating to the substance or mixture as placed on the market.

Substance not classified as dangerous.

11.1.3. Summary of test results by exposure route.

The substance can cause mechanical irritation of the body, dusting of the eyes and respiratory tract.

11.1.4. Information on not meeting the classification criteria.

The classification criteria for the substance are met. The substance is not classified as hazardous.

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11.1.5. Information on likely exposure routes.

The substance is not classified as hazardous. See subsections 4.1 and 4.2.

11.1.6. Symptoms related to physical, chemical and toxicological properties.

See section 4.

11.1.7. The effects of interaction.

No data available.

11.1.8. Delayed, immediate and chronic effects of short- and long-term exposure.

See sections 11.1.1. and 11.1.2.

11.1.9. No specific data available

Detailed hazard data are described in the safety data sheet.

11.1.10. Mixtures.

N/A

11.1.11. Information on mixtures vs. information on substances.

No data available.

11.2. Information on other hazards.

11.2.1. Endocrine disrupting properties.

No data available.

11.2.2. Other information.

None.

SECTION 12: Ecological information.

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12.1. Toxicity.

N/A

12.2. Persistence and degradability.

N/A

12.3. Bioaccumulative potential.

N/A

12.4. Mobility in soil.

Not mobile.

12.5. PBT and vPvB assessment results.

The substance is not classified as PBT or vPvB.

12.6. Endocrine disrupting properties.

No data available.

12.7. Other harmful effects.

No data available.

SEKCJA 13 : Waste disposal.

13.1. Waste disposal methods.

Product disposal method:

The Łukasiewicz Research Network - Institute of Non-Ferrous Metals accepts used Polgрит abrasive material purchased from the IMN (**Decision No. SR.6233.31.2015 of the Polkowice Starost dated 30 October 2015**).

Method of disposal of packaging:

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The Łukasiewicz Research Network - Institute of Non-ferrous Metals accepts used packaging of Polgrit abrasive purchased from IMN (**Decision No. SR.6233.31.2015 of the Polkowice Starost dated 30 October 2015**).

Deliveries of used abrasive and packaging are to be agreed in each case.

SEKCJA 14. Transportation information.

14.1. Numer UN lub numer identyfikacyjny ID.

N/A

14.2. UN proper shipping name.

N/A

14.3 Transport hazard class(es).

N/A

14.4 Packaging group.

N/A

14.5 Environmental hazards.

N/A

14.6 Specific precautions for users.

N/A

14.7 Bulk maritime transport in accordance with IMO instruments.

N/A

SECTION 15 : Regulatory information.

15.1. Safety, health and environmental regulations specific to the substance or mixture.

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- Act of 28 October 2002 on Road Transport of Dangerous Goods (Journal of Laws 02.199.1671) and Government Statement of 16 January 2009 on entry into force of amendments to Annexes A and B of the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), done at Geneva on 30 September 1957 (Journal of Laws 09.27.162).
- Regulation of the Minister of Health of 30 December 2004 on health and safety at work related to the presence of chemical agents in the workplace (Dz.U.05.11.86), as amended.
- Regulation of the Minister of Economy of 21 December 2005 on the essential requirements for personal protective equipment (Dz.U.05.259.2173).
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the 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 (OJ EU L136 of 29 May 2007), as amended.
- Regulation (EC) No 1336/2008 of the European Parliament and of the Council of 16 December 2008 amending Regulation (EC) No 648/2004 in order to adapt it to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (Official Journal of the EU L 354 of 31 December 2008).
- 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 (Official Journal of the EU L 353 of 31 December 2008) as amended by 790/2009.
- 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.
- Act of 25 February 2011 on chemical substances and their mixtures (Journal of Laws 2011, No. 63, item 322, as amended).
- Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classification of chemical substances and their mixtures (Dz.U.12.0.1018), as amended.
- Act of 14 December 2012 on waste, as amended (Dz.U.2013, item 21)
- Regulation of the Minister of Environment of 24 August 2012 on levels of certain substances in the air, Dz.U. 2012, item 1031
- Regulation of the Minister of Environment of 09.12.2014. (Dz.U. pos.1923 of 2014) on the catalogue of waste.
- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Official Journal of the EU L 132)
- Ordinance of the Minister of Family, Labour and Social Policy of 12 June 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the working environment (Journal of Laws 2018 item 1286)
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- Polish Standard PN-EN ISO 11126-3:2000 on technical requirements for non-metallic abrasives used in granulated slag blasting operations.

15.2. Chemical safety assessment.

A chemical safety assessment has not been carried out for this product. Report available from the Abrasives Production Department in Głogów.

SECTION 16 : Other information.

2023-06-19 Updating e-mail addresses in the section 1.3
2023-05-26 Zip Code update in the section 1.3
2022-10-28 The sheet has been updated to align and harmonise its content with current legislation
2022-05-18 Update of the sheet as required by COMMISSION REGULATION (EU) 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).
2017-05-31 Update of the fiche in accordance with the requirements of Commission Regulation (EU) 2015/830 as amended.
2016-01-29 The sheet has been updated to bring its contents into line with current legislation. Information on the available grain size has also been modified in section 9.1.
2014-01-22 The sheet has been updated to bring its content in line with current legislation.
2013-12-03 The sheet has been updated to bring its contents into line with current legislation. Additional test results for human health hazards have also been modified in section 2.3.
2013-06-26 The most recent update of the sheet additionally includes information on the chemical composition. This information can be found in section 3.1. of the fiche. The REACH registration confirmation number has also been changed in section 1.1.

The CAS number is the numerical designation assigned to a chemical substance by the US Chemical Abstracts Service (CAS) to identify the substance.

Index number - is the identification code given in Part 3 of Annex VI of 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.

EC number - means the number assigned to a chemical in the European Inventory of Existing Chemical Substances

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(EINECS), or the number assigned to a substance in the European List of Notified Chemical Substances (ELINCS), or the number in the list of chemicals listed in the publication No-longer polymers.

Registration number - the number assigned by the European Chemicals Agency (ECHA) following registration of a substance/intermediate by a manufacturer/importer under the REACH Regulation.

UN number - is the unique designation of substances and dangerous goods established by the United Nations Central Committee to ensure international recognition and use.

IUPAC name - the name of the substance as established by the IUPAC Nomenclature Committee - International Union of Pure and Applied Chemistry.

PAC - maximum permissible concentration - weighted average value - ndsnie of a toxic chemical compound, the exposure of which to a worker during an 8-hour average daily working week, as defined in the Labour Code, throughout his working life, should not cause any adverse changes in his state of health, and that of his future generations.

MAK - maximum permissible instantaneous concentration - the average value of the concentration of a specific, toxic chemical compound, which should not cause negative changes in the employee's state of health, if it occurs in the working environment for not longer than 15 minutes and not more often than 2 times during the working shift with an interval of not less than 1 hour.

LD50 - the dose of a toxic substance, expressed in milligrams per kilogram of body weight, needed to kill 50% of a test population in a specified time.

LDo - is the maximum dose of a substance that, when introduced into the body, does not cause the death of any individual in the test population within a specified time.

LC50 - the concentration of a substance in inhaled air, expressed in milligrams / litre, which causes the death of 50% of the test population after a specified time of inhalation.

EC50 - the dose of a substance, expressed in milligrams / litre, that produces a given pharmacological effect (e.g. growth inhibition) in 50% of a test population over a specified time.

IC50 - the concentration of a substance producing a given systemic inhibition in 50% of the test population over a specified time.

The information contained in the sheet is based on our current knowledge and is derived from the data contained in the suppliers' safety data sheets, available literature data and currently applicable legislation. Among others: Computer

Database - Safety Data Sheets of Hazardous Substances, prepared by the Central Institute for Labour Protection - National Research Institute, 2008. "Harmful Factors in the Work Environment - Limit Values"- Published by the Central

Institute for Labour Protection - National Research Institute, 2009. Computer Database EINECS, 2009. Portal <http://ecb.jrc.ec.europa.eu/esis/>. ChemID Plus Computer Database, 2009. <http://chem.sis.nlm.nih.gov/chemidplus/>.

Computer Database eChemPortal, 2009. Portal <http://webnet3.oecd.org/eChemPortal/Home.aspx>.

The above information is believed to be correct but may not be sufficient and should only be regarded as an aid to safe handling in the transportation, distribution, use and storage of the product.

Any person representing the company assumes no legal liability for the consequences of using the information contained in particular circumstances.

The sheet does not constitute a technical specification of product properties.

The sheet does not release the user from knowledge of the regulations governing the use of the product.

The recipient is responsible for measures to protect personnel and the environment when using the material.

This product should be stored, transported and used in accordance with good industrial hygiene principles and in compliance with all legal provisions.

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2013-06-26, 2013-12-03,
2014-01-22, 29-01-2016,
2017-05-31, 2022-05-18,
28-10-2022, 26.05.2023,
19.06.2023

Prodct: *Abrasive POLGRIT* _____

Training advice.

Read the safety data sheet before use.

Any person representing the company assumes no legal liability for the consequences of the use of the information contained in particular circumstances.

The safety data sheet does not constitute a technical specification of the product property.

The safety data sheet does not release the user from the knowledge of the regulations concerning the use of the product.

The recipient is responsible for measures to protect personnel and the environment when using the product.

This product should be stored, transported and used in accordance with good industrial hygiene principles and in compliance with all legal provisions.