

MATERIAL SAFTETY DATA SHEET			
Issue Date	09.03.2021	MSDS No.	MSDS-002-GB
Valid Until	01.01.2026	ABRASIVE PRODUCTS	



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1 Identification of Product and Company

1.1 Product Identifier

Grinding and Cutting Wheels, Resinous (Type41, Type42, Type 27)

1.2 Use of Product

Abrasive materials used for cutting and grinding metals, concrete, masonry and building materials.

1.3 Company Identification

Company:	UK:	MARCRIST International Ltd.
	DE:	MARCRIST Vertriebsgesellschaft GmbH
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2 Hazardous Identification

2.1 Classification

Not applicable

Abrasives are articles and not dangerous substances or mixtures according to directive 1999/45/EC or Regulation (EC) N° 1272/2008.

See also section 8 and 16.

2.1.1 EU REACH

This product is an article, without intended release of a chemical substance, under the Regulation No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (refer to REACH, Article 3(3)). It is not a chemical preparation. Therefore, it is not subject to the (pre)-registration or the registration process. It does not require a safety data sheet.

This product, including any article that the product is composed of, does not contain at greater than 0.1% by weight a Substance of Very High Concern (SVHC) substance identified according to Article 59 of REACH. This declaration reflects the substances on the candidate SVHC list, effective January 2021.

2.1.2 EU RoHS

This product does not exceed the maximum concentration values (MCVs) set under EU Directive 2011/65/EU (RoHS recast/RoHS 2), as stated in Annex II to that directive. This means that each of the homogenous materials within this product does not exceed the following MCVs: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; and (b) 0.01% (by weight) for cadmium.

2.1.3 EU RoHS Phthalates

This product does not exceed the maximum concentration values (MCVs) for phthalates set under EU Directive 2011/65/EU (RoHS recast/RoHS 2), as amended by EU 2015/863, which applies to finished EEE after July 22, 2019 for Category 1-7, 10-11 products and after July 22, 2021 for Category 8 and 9 products. This means that each of the homogeneous materials within this product does not exceed the MCV of 0.1% (by weight) for each of the following phthalates: DEHP, BBP, DBP, and DIBP.

2.2 Label elements

Abrasives are articles and not dangerous substances or mixtures and therefore no labelling is required according to directive 1999/45/EC or Regulation (EC) N° 1272/2008.

2.3 Other hazards

Not known.

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3 Composition / Information on Ingredients

Hazardous Component	CAS #	%
Brown/Blue/white Aluminum Oxide	1344-28-1	0-70
and/or Silicon Carbide	409-21-2	0-70
and/or Zirconium Oxide	1314-23-4	0-30
and/or Cubitron	N/A	0-20
and/or Titanium Dioxide	13463-67-7	0-5
Cured Phenolic Resin	N/A	5-20
and/or Woven Fiberglass	N/A	0-20
and/or Calcium Carbonate	1317-65-3	0-2
and/or Calcium Oxide	1305-78-8	0-5
and/or Barium Sulfate	7727-43-7	0-5
and/or Sulfur	7704-34-9	0-5
and/or Zinc Sulfide	1314-98-3	0-5
and/or Magnesium Oxide	1309-48-4	0-5
and/or Iron Oxide	1309-37-1	0-5
and/or Graphite	7782-42-5	0-5
and/or Iron Pyrite	12068-85-8	0-20
and/or Cryolite	15096-52-3	1-10
and/or Potassium Fluoroborate	14075-53-7	0-5

4 First Aid Measures

See also section 8 and 16

4.1 Description of first aid measures

Inhalation: Not possible, due to the form of the product
 Eye contact: Not possible, due to the form of the product
 Skin contact: No harmful effects known
 Ingestion: Not likely, due to the form of the product; if necessary contact physician
 Note to physician: Not available.

4.2 Most important symptoms and effects, both and special treatment needed

Not known.

4.3 Indication of any immediate medical attention and special treatment needed

Not relevant. Treat symptomatically.

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5 Fire Fighting Measures

5.1 Extinguishing media

Extinguishing media: water, foam, sand, powder or CO₂ as appropriate for surrounding materials

5.2 Special hazards arising from the product

Toxic fumes may occur. Use respiratory protective equipment.

5.3 Advice for fire fighters

Extinguishing materials should be selected according to the surrounding area.

6 Accidental release measures

Not applicable.

7 Handling and Storage

Follow instructions of grinding machine manufacturers and the relevant national regulations. In addition, observe the safety recommendations of the manufacturer.

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8 Exposure Controls / Personal Protection

8.1 Control parameters

Before grinding it is recommended to perform a risk assessment and to use personal protection equipment accordingly.

Occupational exposure limit values and/or biological limit values

Keep exposure to the following components under surveillance.
(Observe also the regional official regulations)

Note: Hazardous dust of workpiece material may be generated during grinding and/or sanding operations. National regulations for dust exposure limit values have to be taken into consideration

8.2 Exposure controls

8.2.1 Individual protection measures

8.2.1.1 *Respiratory protection: Use respiratory protective equipment*
(type depends on specific application and material being ground)

8.2.1.2 *Hand protection: Wear protective gloves*
(type depends on specific application and material being ground)

8.2.1.3 *Eye protection: Wear protective goggles or face shield*
(type depends on specific application and material being ground)

8.2.1.4 *Hearing protection: Use hearing protection*
(type depends on specific application and material being ground)

8.2.1.5 *Body protection: Use protective clothing*
(type depends on specific application and material being ground)

8.3 Exposure Guidelines

Hazardous Component	OSHA PEL	ACGIH TLV
Aluminum Oxide	15 mg/m ³ (total dust)	10 mg/m ³
Silicon Carbide	15 mg/m ³ (total dust)	10 mg/m ³ (inhalable fraction)
Zirconium Oxide	5 mg/m ³	5 mg/m ³ 10 mg/m ³ STEL
Cubitron	None Established	None Established
Titanium Dioxide	15 mg/m ³ (total dust)	10 mg/m ³
Cured Phenolic Resin	None Established	None Established
Woven Fiberglass	15 mg/m ³ (total dust)	1 f/cc
Calcium Carbonate	15 mg/m ³ (total dust)	10 mg/m ³
Calcium Oxide	5 mg/m ³	2 mg/m ³
Barium Sulfate	15 mg/m ³ (total dust)	10 mg/m ³
Sulfur	None Established	None Established
Zinc Sulfide	None Established	None Established
Magnesium Oxide	15 mg/m ³ (total dust)	10 mg/m ³ (inhalable fraction)
Iron Oxide	10 mg/m ³	5 mg/m ³
Graphite	15 mg/m ³ (total dust)	2 mg/m ³ (respirable fraction)
Iron Pyrite	None Established	None Established
Cryolite (as fluorides)	2.5 mg/m ³	2.5 mg/m ³
Potassium Fluoroborate (as fluorides)	2.5 mg/m ³	2.5 mg/m ³

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9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

- 9.1.1 **Physical state:** solid
9.1.2 **Colour:** various
9.1.3 **Solubility in water:** not applicable

9.2 Other information

None.

10 Exposure Controls / Personal Protection

10.1 Reactivity

Coated Abrasives are stable when handled or stored correctly.

10.2 Chemical stability

No decomposition in normal use.

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

Coated Abrasives are stable when handled or stored correctly.

10.5 Incompatible materials

No dangerous reactions known.

10.6 Hazardous decomposition products

At temperatures exceeding 250° C hazardous or toxic decomposition products may be generated.

11 Toxicological Information

11.1 Information on toxicological effects

No toxicological effects if inhaled or swallowed or with eye or skin contact are known.
See also section 8.

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12 Ecological Information

12.1 Toxicity

No effects known.

12.2 Persistence and degradability

No biodegradable potentials known.

12.3 Bio accumulative potential

No potentials known.

12.4 Mobility in soil

No potentials known.

12.5 Results of PBT and vPvB assessment

Not relevant.

12.6 Other adverse effects

No effects known.

13 Disposal Considerations

13.1 Waste treatment methods

13.1.1 Product

Follow national and regional regulations.

Due to the ingredients and properties disposal as non hazardous waste (2000/532/EC) is possible if no hazardous materials are added to the abrasives. (EWC –Nr. 120121)

13.1.2 Packing

Follow national and regional regulations.

14 Transport Information

The product is not covered by international regulation on the transport of dangerous goods.

15 Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the product

No specific labelling requirements under respective EC directives.

15.2 Chemical safety assessment

Not relevant.

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16 Other Information

Changes to the previous versions

See sections 1 to 16.

Literature and data sources

Directive (1999/45/EC), amended by Regulation (EC) N°. 1907/2006.

Directive (67/548/EEG), amended by Directive 2009/2/EC.

REACH Regulation (EC) Nr. 1907/2006, amended by Regulation (EC) N° 552/2009.

Regulation (EC) N° 1272/2008, amended by

Regulation (EC) N° 790/2009.

Directive 2000/39/EEG, amended by Directive 2009/161/EC

Directive 75/324/EEG, amended by Regulation (EC) N° 219/2009.

Transport regulations according to ADR, RID und IATA.

Hazard statements referred to in section 2 and 3

R22 Harmful if swallowed

R36/37/38 Irritating to eyes, respiratory system and skin

The above information is based on our current standard of knowledge and does not constitute any warranty of conditions of the product. The information does not form part of any contractual agreement. It remains the user's responsibility to adhere existing laws and regulations.

Issued by: Technical Department
Marcris