



MATERIAL SAFETY DATA SHEET

PRODUCT NUMBER: 13 51 20 - 13 51 23

SECTION 1 PRODUCT IDENTIFICATION AND MANUFACTURE

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PRODUCT: Zirconia Abrasive Belts

SECTION 2 SUBSTANCE HAZARD IDENTIFICATION

2.1. Classification

Not applicable
Abrasives are articles and not dangerous substances or mixtures according to Regulation (EC) N° 1272/2008.
See also section 8 and 16.

2.2. Label elements

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

2.3. Other hazards

Not known.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

The product contains the following ingredients which are classified according to Regulation (EC) Nr. 1272/2008 or for which a community occupational exposure limit value exists:

Substance	EC-N°	CAS-N°	REACH Registration N°	Conc. (%)	Classification acc. to Regulation (EC) N° 1272/2008 (CLP)		Classification Acc.to Directive 67/548/EWC
					Hazard classes/ hazard categories	Hazard statements	
Cryolite	237-410-6	13775-53-6	01-2119511565-43	as annexed	Acut Tox. Ca STOT rep ex Cat. 1 Repro Tox. Chron Aqu. Cat 2	H332 H372 H362 H411	T:R48/23/25 Xn: R20;R64 N: R51/53

(For full text of H-phrases see section 16)



SECTION 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 acute and delayed

Not known.

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

Not relevant. Treat symptomatically.

SECTION 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.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Not applicable.

SECTION 7 HANDLING AND STORAGE

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



SECTION 8

EXPOSURE CONTROL/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)

Limit value type (country of origin)	substance	EC-N°	CAS-N°	Occupational limit value				Peak limit	source, remark
				Long term		Short term			
				mg/m ³	ml/m ³ (ppm)	mg/m ³	ml/m ³ (ppm)		
EU	Cryolite	237-410-6	13775-53-6	2,5				Respirable dust as F	
UK	Cryolite	237-410-6	13775-53-6	2				UK.EH40 WELs 2007	
UK	Cryolite	237-410-6	13775-53-6	2,5				UK.EH40n WELs 2007 as F	

Note: Hazardous dust of the 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)

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

- a) Physical state: solid
- b) Colour: as annexed
- c) Solubility in water: as annexed

9.2. Other information

None.



SECTION 10

STABILITY AND REACTIVITY PROPERTIES

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.

SECTION 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.

SECTION 12

ECOLOGICAL INFORMATION

12.1. Toxicity

No effects known.

12.2. Persistence and degradability

No biodegradable potentials known.

12.3. Bioaccumulative 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.



SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

13.1. Product

Follow national and regional regulations.

- O Due to the ingredients and properties disposal as non hazardous waste (1357/2014/EC) is possible if no hazardous materials are added to the abrasives. (EWC – Nr. 120121),
- X Due to the ingredients and properties disposal as hazardous waste (1357/2014/EC) (EWC – Nr. 120120*)

13.2. Packing

Follow national and regional regulations.

SECTION 14 TRANSPORT INFORMATION

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

SECTION 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.

SECTION 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) No.1907/2006
Directive (67/548/EWG), amended by Directive 2009/2/EC.
REACH Regulation (EC) Nr. 1907/2006, amended by Regulation (EC) No 552/2009
Regulation (EC) No 1272/2008, amended by Regulation (EC) No 790/2009
Directive 2000/39/EG, amended by Directive 2009/161/EC
Directive 75/324/EWG, amended by Regulation (EC) No 219/2009
Transport regulations according to ADR, RID and IATA.

Hazard statements referred to in section 2 and 3

According to Regulation (EC) N° 1272/2008:

H332	Harmful if inhaled
H362	May cause harm to breast-fed children
H372	Causes damage to organs through prolonged or repeated exposure
H411	Toxic to aquatic life with long lasting effects.



According to Directive 67/548/EWC:

R20	Harmful by inhalation
R48/23/25	Toxic: danger of serious damage to health by prolonged exposure through Inhalation and if swallowed.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R64	May cause harm to breastfed babies

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 to existing laws and regulations.