



U.S. safety data sheet for coated abrasives

1. Identification of the product and of the company/undertaking

1.1 Product identifier

Coated abrasives Group A (Products which belong to this group are listed in the annex)

1.2 Use of the product

Coated abrasives for industrial and professional use

1.3 Details of the supplier of the voluntary product information:

Company: Hermes Abrasives, LTD.

Address: 524 Viking Drive
Virginia Beach, VA 23452

Phone: (757) 486-6623 Fax: (757) 431-2370

E-mail: www.hermesabrasives.com

1.4 Emergency telephone number:

CHEMTREC (U.S.): (800) 424-9300

2. Hazards identification

2.1. Classification

GHS Classification

Carcinogenicity Category 1A H350 May Cause Cancer

Full text of H statements: See Section 16

2.2. Label elements



Signal word:

Danger



Hazards statement:
H350: May Cause Cancer

Precautionary statement:
P201: Obtain special instructions before use.
P260: Do not breathe dust.
P501: Dispose of contents and container in accordance with local and national regulations.

2.3. Other hazards

A greater hazard than that posed by the abrasive material, in most cases, is the exposure to the dust/fumes from the material or paint/coatings being ground. Most of the dust generated during grinding is from the base material being ground and the potential hazard from this exposure must be evaluated. This dust may present a fire or dust explosion hazard and may present a serious health hazard.

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	CAS-N°	Conc. (%)	Classification acc. OSHA Hazard Communication Standard, 29 CFR 1910.1200.	
			Hazard classes/ hazard categories	Hazard statements
Quartz	14808-60-7	<0.4	Carc 1A	
Silicon Carbide	409-21-2	0-60	Carc 1A	
Formaldehyde	50-00-0	<0.1	Carc. 1B Acute Tox.3 Skin Corr. 1B Skin Sens.1	H 350 H 301+H 311+H 331 H 314 H 317 H 341 H 370 H 335
Carbon Black	1333-86-4	0-2	Carc 2	
Titanium Dioxide	13463-67-7	0-4	Carc 2B	
Cryolite	13775-53-6	0-15	Acute Tox. Cat. 4 STOT rep. ex. Cat. 1 Repro. Tox. chron. Aqu. Cat. 2	H 332 H 372 H 362 H 411
potassium tetrafluoroborate	14075-53-7	0-15	Not classified	
Trilithium hexafluoroaluminate	13821-20-0	0-5	Acute Tox. Cat. 4 Acute Tox. Cat. 3 Lact. STOT RE 1 chron. Aqu. Cat. 3	H 302 H 331 H 362 H 372 H 412
potassium fluoroaluminate	60304-36-1	0-5	Acute Tox. Cat. 4 Eye Irrit. 2 Lact. STOT RE 1 chron. Aqu. Cat. 3	H 332 H 319 H 362 H 372 H 412
Aluminium Oxide	1344-28-1	0-70	Not classified	
Alumina Zirkonia (Zirkon Oxide Mineral)	1314-23-4	0-30	Not classified	
Calcium Carbonate	1317-65-3 471-34-1	0-40	Not classified	--

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

*Ranges are used for Trade Secret



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.

5. Firefighting 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 materials in 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.



Section 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.

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

Occupational exposure limit values and/or biological limit values

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

substance	CAS-N°	TWA	STEL	Source, remark
Formaldehyde	50-00-0	0.1 ppm	0.3 ppm	ACGIH
Formaldehyde	50-00-0	0.75 ppm	2 ppm	OSHA
Formaldehyde	50-00-0	0.016 ppm		NIOSH
Alpha-Alumina	1344-28-1	(total dust) 15 mg/m ³		OSHA
Alpha-Alumina	1344-28-1	(respirable fraction) 5 mg/m ³		OSHA
Alpha-Alumina	1344-28-1	1 fiber/cm ³		CMRG
Alpha-Alumina	1344-28-1	(as Al; respirable fraction) 1 mg/m ³		ACGIH
Silicon Carbide	409-21-2	(total dust) 15 mg/m ³		OSHA
Silicon Carbide	409-21-2	(respirable fraction) 5 mg/m ³		OSHA
Silicon Carbide	409-21-2	10 mg/m ³ (inhalable fraction, particulate matter containing no asbestos and < 1% crystalline silica)		ACGIH
Silicon Carbide	409-21-2	3 mg/m ³ (respirable fraction, particulate matter containing no asbestos and < 1% crystalline silica)		ACGIH
Titanium Dioxide	13463-67-6	10 mg/m ³		ACGIH
Titanium Dioxide	13463-67-6	(respirable dust) 5 mg/m ³		CMRG
Titanium Dioxide	13463-67-6	(total dust) 15 mg/m ³		OSHA
Titanium Dioxide	13463-67-6	(respirable dust) 5 mg/m ³		OSHA
Quartz	14808-60-7	(Respirable dust) 0.05 mg/m ³		OSHA
Quartz	14808-60-7	(Action level: respirable dust) 0.025 mg/m ³		OSHA
Quartz	14808-60-7	(respirable dust) 0.025 mg/m ³		ACGIH
Quartz	14808-60-7	0.05 mg/m ³		NIOSH
Carbon Black	1333-86-4	3.5 mg/m ³		OSHA
Carbon Black	1333-86-4	3.5 mg/m ³		NIOSH
Calcium Carbonate	1317-65-3	(total dust) 10 mg/m ³		OSHA
Calcium Carbonate	1317-65-3	(respirable dust) 5 mg/m ³		OSHA
Calcium Carbonate	1317-65-3	(total dust) 10 mg/m ³		NIOSH
Calcium Carbonate	1317-65-3	(respirable dust) 5 mg/m ³		NIOSH

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer's Recommended Guidelines

OSHA: United States Department of Labor – Occupational safety and Health Administration

NIOSH: National Institute for Occupational Safety and Health

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit



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)

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

- a) Physical state: solid
- b) Colour: not applicable/different colours
- c) pH: not applicable
- d) Melting point: not applicable
- e) Boiling point: not applicable
- f) Density: not applicable
- g) Viscosity: not applicable
- h) Solubility in water: not relevant (article)

9.2. Other information

None.

10. Stability and reactivity

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

Inhalation: Dust may cause respiratory irritation.

Ingestion: None expect under normal use conditions.

Skin Contact: None expected under normal use conditions. Rubbing product across the skin may cause mechanical irritation or abrasions.

Eye Contact: Dust may cause eye irritation. Dust particles may cause abrasive injury to the Eyes

Carcinogenicity: Prolonged and repeated exposure by inhalation to fine dusts of silicon carbide, titanium dioxide, quartz, and/or carbon black, and/or formaldehyde aerosols or vapours is associated with development of cancers of the respiratory system.

Acute Toxicity:

substance	CAS-N°	ORAL	INHALATION	DERMAL
Formaldehyde	50-00-0	100mg/kg (LD50, rat)	0.578mg/L/4h (LD50, rat)	292mg/kg (LD50, rabbit)
Aluminium Oxide	1344-28-1	>5000mg/kg (LD50, rat)	>7.6mg/L/h (LD50, rat)	
Silicon Carbide	409-21-2			
Titanium Dioxide	13463-67-6	>10000mg/kg (LD50, rat)	>6.82mg/L/4h (LD50, rat)	>10000mg/kg (LD50, rabbit)
Quartz	14808-60-7			
Carbon Black	1333-86-4	>2000mg/kg (LD50, rat)		>1130mg/kg (LD50, rat)
Calcium Carbonate	1317-65-3	>5000mg/kg (LD50, rat)		

12. Ecological information

12.1. Toxicity

No effects known.

12.2. Persistence and degradability

No effects 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.

13. Disposal considerations

13.1. Waste treatment methods

- 13.1. Product
Follow local, national and regional regulations.
 - 13.2. Packing
Follow local, national and regional regulations.
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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

California Proposition 65:

 **WARNING:** This product contains chemicals (specifically Formaldehyde (CAS No 50-00-0) and Silica (CAS No 14808-60-7)) known to the state of California to cause cancer, lung damage or physical injury. Use of engineering controls to capture or control dust is recommended as stated in the SDS. Wear approved PPE when working with this product. Failure to follow this warning can result in serious injury.

15.2. Chemical safety assessment

Not relevant.

16. Other information

Changes to the previous versions

See sections 1 to 16.



Hazard statements referred to in section 2 and 3

- H 301 Toxic if swallowed.
- H 311 Toxic in contact with skin.
- H 314 Causes severe skin burns and eye damage.
- H 317 May cause an allergic skin reaction.
- H 331 Toxic if inhaled.
- H 335 May cause respiratory irritation.
- H 341 Suspected of causing genetic defects
- H 350 May cause cancer

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.

Revision Date: 15/06/2020

Issued by: Hermes Abrasive, LTD

Contact: www.hermesabrasives.com

Appendix: Hermes Abrasives types group A



Annex: Hermes coated abrasives group A

Art.-Nr. / Code	Type	Art.-Nr. / Code	Type	Art.-Nr. / Code	Type
11000	BW 110	31970	RB 319 X-flex	53021	HERMESIT RB 530 X
11005	BW 110 SK	32020	RB 320 X	53060	HERMESIT RB 530 J
11500	BW 115	32021	RB 320 21 X	53066	HERMESIT RB 530 J SK
11507	BW 115 VEL	34602	RB 346 MJ	53067	HERMESIT RB 530 J VEL
11523	CB 115	34603	RB 346 03 MJ	53520	HERMESIT RB 535 X
11600	BW 116	34623	RB 346 23 MX	53521	HERMESIT RB 535 X
11601	BW 116 01	34625	RB 346 23 MX SK	53530	HERMESIT RB 535 Y
11623	CERAMIT CR 116	34626	RB 346 26 MX	54003	HERMESIT RB 540 EJ
11627	CERAMIT CR 116 VEL	34660	RB 346 J-flex	54010	HERMESIT BS 540
11800	BS 118	34662	RB 346 CX	54020	HERMESIT RB 540 X
11805	BS 118 SK	34670	RB 346 X-flex	54520	HERMESIT RB 545 X
11807	BS 118 VEL	34674	RB 346 X-flex Procut	54521	HERMESIT RB 545 X
11900	BS 119	34687	RB 346 87 MX VEL	54530	HERMESIT RB 545 Y
11970	BS 119-Longlife	34697	RB 346 97 MX VEL	59010	MERCURIT BW 590
15170	VC 151-Longlife	37433	RB 374 Z	59030	MERCURIT RB 590 Y
15177	VC 151-Longlife, VEL	37442	ProBoard RB 374 42 Z	59130	MERCURIT RB 591 Y
15179	VC 151-Longlife, VEL Multihole	37490	RB 374 90 ZZ	59131	MERCURIT RB 591 Y op
15200	VC 152	37492	ProBoard RB 374 92 ZZ	59530	MERCURIT RB 595 Y
15201	VC 152 01	37530	RB 375 Y	59730	MERCURIT RB 597 Y
15205	VC 152 SK	37536	RB 375 36 Z	59830	MERCURIT RB 598 Y
15207	VC 152 VEL	37538	RB 375 38 Z	61400	WS flex 14
15470	VC 154-Longlife	37710	RB 377 YX	61810	WS flex 18 C
15475	VC 154-Longlife, SK	37711	RB 377 11 YX	61814	WS flex 18 C film
15477	VC 154-Longlife, VEL	37730	RB 377 Y	61815	WS flex 18 C SK
15807	VC 158 VEL	37840	SB 378 YR	61816	WS flex 18 C SK 302
17600	CERAMIT CR 176	37992	ProBoard SB 379 92 ZZ	63600	FB 636
17900	ProBoard BS 179	38823	SB 388 23 Y	70000	webrax-MAG
27400	ProBoard RP 274	40660	RB 406 J-flex	70150	webrax-AN 701 50
30480	RB 304 J-flex	41710	RB 417 YX	70200	webrax-AN 702
30660	RB 306 J-flex	45440	CERAMIT CR 454 Z	70450	webrax-AN 704 Fastcut
30661	RB 306 61 J-flex	45631	CERAMIT SB 456 Y	70500	webrax-MSG
30665	RB 306 J-flex SK	45640	CERAMIT CR 456 Z	70700	webrax-AN 707
30667	RB 306 J-flex VEL	45647	CERAMIT CR 456 Z VEL	70710	webrax-AN 707 10
30760	RB 307 J-flex	45648	CERAMIT CR 456 Z VEL	70720	webrax-AN 707 20
30800	RB 308 J	45650	CERAMIT CR 456 fibre- Procut	70800	webrax-OA 708
30860	RB 308 J-flex	45660	CERAMIT CR 456 J-flex	70807	webrax-OA 708 VEL
31444	RB 314 fibre	46440	CERAMIT CN 464 Z	70900	webrax-OS 709
31446	RB 314 46 fibre	46640	CERAMIT CN 466 Z	70907	webrax-OS 709 VEL
31510	RB 315 YX	46670	CERAMIT CN 466 X-flex	71002	webrax-OA 710
31511	RB 315 11 YX	47600	CERAMIT CR 476 J	71007	webrax-OA 710 VEL
31515	RB 315 YX SK	48031	SB 480 Y	71010	webrax-OA 710 10
31522	RB 315 X	51440	HERMESIT RB 514 J-flex	71300	webrax-OA 713
31633	RB 316 33 X op	51441	HERMESIT RB 514 J-flex	71307	webrax-OA 713 VEL
31636	RB 316 36 Z op	51522	Kork RB 515 X	71502	webrax-OS 715
31652	RB 316 52 EJ	51530	Kork RB 515 Y	71600	webrax-OS 716
31722	RB 317 LX	53007	HERMESIT RB 530 J VEL		
31770	RB 317 J-flex-w	53020	HERMESIT RB 530 X		