



According to GHS – GLOBAL HARMONISED SYSTEM Reg. EC 1907/2006 and to Reg. EU 453/2010

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION		
Product name	Shark Industries- Flap Discs	
Use of the product	Abrasive material for mechanical industry	
Company name:	Shark Industries	
Address:	6700 Bleck Drive, Rockford, MN 55373	
Telephone number:	800-537-4275	
Fax number:	763-565-1901	
E-mail	info@sharkind.com	
Emergency phone number:	1-800-424-9300	

2 HAZARDS IDENTIFICATION	
Classification	The product is classified not hazardous according to Reg. EC 1272/2008
Hazards to human	No relevant hazards to human
Hazards to the environment	No relevant hazards to the environment
Physical or chemical hazards	No relevant physical or chemical hazards

3 **COMPOSITION / INFORMATION ON INGREDIENTS**

Material is composed of abrasive powders supported on a structure of cotton/polyester tissue, with a burnished or zinc-coated stainless steel pivot. The product is binded by a polymeric inert matrix

Abrasive material

Matrix Substance	Hazard symbol		Classification				% by
	Substance	Reg. EC 1272/2008	Dir. EC 67/548	Reg. EC 1272/2008	Dir. EC 67/548	CAS N.	EC N.
Abrasive powders Corundum* (Al ₂ O ₃) Zirconium dioxide (ZrO ₂)					1344-28-1	215-691-6	
	TSCA 8(b)) inventory	nventory Listed				
	RTE	CS	BD1200000			100	
					1314-23-4	215-227-2	
	TSCA 8(b) inventory		Listed				
		RTE	ECS	ZH8800000			

Structural support

Matrix	Structural component	Risk symbol	Classification
Support	Cotton fiber		
Support	Polyester fiber		
Binder	Inert polymeric binder film		
Buckle	Zinc coated iron plate		
Support fiber	Fiberglass (amorphous silica, cas n.: 65997-17-3)		

^{*:} Corundum is a natural form of aluminium oxide; it contains small impurities of iron, magnesium and silica
**: any differences on abrasive powder composition (% by weight) does not modify hazard classification of material according to reference





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4 FIRST AID MEASURES	
Preamble	Following statements must be taken as base-rules concerning abrasive materials and has to be completed according to safety data sheets of processed materials and process cooling liquid used
General informations	In case of eyes and skin contact, give priority to eyes first aid measures
Eye contact	Rinse opened eye for several minutes under running water and seek immediate medical advice, showing this MSDS
Skin contact	Remove contaminated clothes. Immediately wash with water and soap and rinse thoroughly.
Inhalation	Supply fresh air; consult doctor in case of complaints
Swallowing	No negative effects in case of swallowing. Drink water and seek immediate medical advice, showing this MSDS

5 FIRE FIGHTING MEASURES	
Suitable extinguishing agents	${\rm CO_{2}},$ extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam
Protective equipment	Ordinary protective equipment in case of fire-fighting
Specifical risks	None

6 ACCIDENTAL RELEASE MEASURES		
Person-related safety precautions		
Measures for environmental protection	Not applicable to the article	
Measures for cleaning/collecting		

7 HANDLING AND STORAGE	
Handling	Avoid direct contact using recommended handling safety equipment (see § 8). According to normal use conditions, product does not contain volatile components.
	Keep in cool, dry, ventilated storage in closed original containers. Do not drinking or eating near the storage place.





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8 EXPOSURE CONTRO	LS / PERSONAL PRO	TECTION			
	Any risk concerning the		,		
Risk scenario	Experimental toxicological data are not available concerning specifical exposure scenarios. Hazard classification of this product was done according to Reg. EC 1272/200 and other available informations				sure EC 1272/2008
Information about design of	Ensure good ventilation	n/exhaustion at the	e workplace.		
technical facilities	Safety washing water r	must be available 1	or skin and eye	s	
			A 2014	ACGIF	
] AWT	mg/m³]	TWA [mg/m³]	
	Substance	Total	Respirable fraction	Inhalable fraction	Respirable fraction
	Corundum [Al ₂ O ₃]	15	5		
Exposure limit values	Zirconium dioxide [as Zr] ACGIH carcinogenicity A4)		ACGIH 2010) L, ACGIH 2010) OSHA PEL 2010 - inhalable fractio		
	Synthetic vitreous fibers – glass wool fibers (ACGIH carcinogenicity A3)		TLW – TWA = 1 f/cc (ACGIH) respirable fibers: length > 5 μ m aspect ratio \geq 3:1		
	Particles not otherwise classified	Particles not otherwise 10 mg/m³ inhalable fraction (TWA 8 h, ACGIH 2014) 3 mg/m³ respirable fraction (TWA 8 h, ACGIH 2014)			
	In case of brief exposure use respiratory filter device				
Respiratory protection					
		Safety go	ggles or face shie	eld	
Eyes protection					
	Protective gloves for chemical products, according to standard EN374; materials for long contact time				
Hands protection					
	Use protective clothes and protective shoes				
Skin protection					
Other informations	Abrasive materials used are inert and cannot cause risks when correctly stored and managed. During use on machineries, they request safety precautions for workers. The most part of powder particles comes from the processed material and eventually from the cooling liquid. Consequently attention and safety precautionary measures on vapours and dusts environmental removing must be applied. Follow the local Safety Management standards and instructions.				





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10 STABILITY AND REACTIVITY		
Stability	Stable in normal handling and storage conditions	
Conditions/materials to avoid	Keep away from strong oxidizers and electrostatic charges	
Dangerous decomposition products	After overheating and drying, thermical decomposition at °T > 250°C can produce dangerous vapours as carbon dioxide, carbon oxide and nitrogen oxides	

TOXICOLOGICAL INFORMATIONS

Material is inert on structural matrix. Data are referring to used abrasive components

Carcinogenic effects:	Zirconium is classified in group 4 of ACGIH (see § 16)
Mutagenic effects:	n.a.
Acute toxicity	Al ₂ O ₃ (Corundum): > 5000 mg/Kg - DL50, oral rat ZrO ₂ (ziconium dioxide): > 8800 mg/Kg – DL50, oral, rat
Chronic toxicity	n.a.
Skin	Mechanical irritating effects
Inhalation	Irritating (superior respiratory system). Powders produced during use can cause respiratory irritating effects
Eyes	Mechanical irritating effects: symptoms can be irritating, reddening, damages of corneal surface, tearing. Powders produced during use can cause eyes irritating effects
Other negative effects	Other risks can be caused depending on the abrasion process material used





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12 ECOLOGICAL INFORMATIONS		
Ecological toxicity	Al ₂ O ₃ (Corundum): > 100 mg/l – 96 h, salmo trutta (long time acute toxicity) > 100 mg/l – 48 h, daphnia magna (long time acute toxicity) ZrO ₂ (Zirconium dioxide): not available data	
Mobility	n.a.	
Biopersistency	n.a.	
Biodegradability	n.a.	
Potential of bioaccumulation	n.a.	

13 DISPOSAL CONSIDERATIONS

Recovery if possible.

Disposal recommendation Waste and uncleaned packages must be disposed of in accordance with state

and local environmental regulations.

14 TRANSPORT INFORMATION

ONU number: n.a.

Transport classification and

regulation

ADR/RID: not regulated (road and railway) ICAO/IATA: not regulated (air transport) IMDG/IMO: nor regulated (maritime transport)

15 REGULATORY INFORMATION					
GHS Hazard labeling symbols		None			
UE Hazard labeling symbols		None			
U.S.A. OSHA labeling symbols		None			
CANADA WHIMIS labeling symbo	ls		None		
GHS hazard statements			None		
UE hazard statements			None		
U.S.A. OSHA hazard statements		None			
CANADA WHIMIS hazard statem	ents		None		
Precautionary statements (Dir. EC 67/548)		S 22	Do not breathe dust		
		S 39	Wear eye/face protection		
Precautionary statements (Reg. EC 1272/2008)		P 260	Do not breathe dust		
		P 280	Wear protective gloves/eye/face protection		





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All ingredients of this product are listed or are excluded from listing on the U.S. Toxic

Substances Control Act Chemical Substance Inventory (see section 3)

Reg. EC 1272/2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives EC 67/548 and EC 1999/45, and amending

Reg. EC 1907/2006 (Reach)

Other regulation references Product does not contains detectable amounts of:

substances classified carcinogenic cat. I or cat. 2

substances included in the ECHA Candidate list of SVHC substances included in the Reach annex 14 (authorization)

No restriction are applicable according to UE Reach Regulation (Annex 17 and

following amendments)

16 OTHER INFORMATIONS			
GHS Hazard statements (full text) (§ 3)	R36/38 – Irritating to eyes and skin H315 – causes skin irritation H319 – causes serious eye irritation		
Further informations and references	Informations are updated to: GHS "Globally Harmonized System of Classification and Labelling of Chemicals, United Nations, 1 st Revised Edition 2005" ANSI Z400.1/Z129.1-2010 Hazard Evaluation and Safety Data Sheet and Precautionary Labeling Preparation Hazard Communication Standard 29 CFR 1910.1200 Reg. EC 1272/2008 and following amendments NIOSH: Registry of toxic effects of chemical substances ACGIH: American Conference of Governmental Industrial Hygienists, 2014 When applicable, according to Reg. 1907/2006/EC - chapter II, all substances used in this preparation where registered Product is according to Reg. 1907/2006/EC — title II requirements (registration of substances) Dir. EC 42/2006 (machineries directive): not applicable. Dir. EC 65/2011 (Rohs 2): not applicable		

ABBREVIATIONS AND ACRONYMS		
LD50	Average letal dose	
TLV - TWA	Threshold Limit Value - Time Weighted Average	
STEL	Short Term Exposure Limit	
OES	Occupational Exposure Standard	
REACH	Registration, Evaluation, Autorisation of Chemicals	
ECHA	European Chemical Agency	
RTECS	Registry of Toxic Effects of Chemical Substances (U.S.A.)	
OSHA	Occupational Safety and Health Administration	
NIOSH	National Institute for Occupational Safety and Health	
ACGIH	American Conference of Governmental Industrial Hygienists	
TSCA	Toxic Substances Control Act	
WHMIS	Workplace Hazardous Materials Information System (Canada)	
OSHA	Occupational Safety and Health Administration	
n.a.	Not applicable/Not available	



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DISCLAIMER

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