

WSDS-030 Resinoid Bonded Grinding and Cut Off Wiscos Resinct Denaed Control of Solution Carbide, Wheels with Aluminum Oxide, Silicon Carbide, and Zirconia Safety Data Sheet

	ION 1: Identification	
1.1.	Identification	
Product	names	 Tiger (AO), Tiger Inox, Tiger Zirc, Tiger Ceramic, Tiger Aluminum, Tiger Roughneck, Wolverine, Tiger, Ultra Cut, Vortec Pro (Cups, Cones, Plugs, Mounted Points, and Wheels)
1.2.	Relevant identified uses of the sub	stance or mixture and uses advised against
Use of t	he substance/mixture	: Industrial manufacturing for cutting and grinding of various materials.
1.3.	Details of the supplier of the safety	/ data sheet
1 Weile	Corporation r Drive PA 18326	
1.4.	Emergency telephone number	
Emerge	ncy number	: 570-595-7495
SECT 2.1.	ION 2: Hazard(s) identification Classification of the substance or r	
exposit be sign product exposit	ire hazards are anticipated during noi ificantly greater than material release t it is possible that some dust particle	ied as hazardous according to the OSHA Hazard Communication Standard 29 CFR 1910.1200. No rmal product handling conditions. In most cases, the material(s) removed from the workpiece will ed by the product. Based upon the materials that are contained within the working portion of this es from this product may be generated. The following safety data is presented for potential st particles that are related to this product. Based on this, no labeling is required for the product
Classif	ication (GHS-US)	
Not clas	ssified	
2.2.	Label elements	
	S labeling	
Not app	blicable	
	Other hazards	
Not app 2.3.	Othersharenda	
Not app 2.3.	Other hazards	
Not app 2.3. No add 2.4.	Other hazards itional information available Unknown acute toxicity (GHS US)	
Not app 2.3. No add	Other hazards itional information available Unknown acute toxicity (GHS US)	
Not app 2.3. No add 2.4.	Other hazards itional information available Unknown acute toxicity (GHS US)	
Not app 2.3. No add 2.4.	Other hazards itional information available Unknown acute toxicity (GHS US)	
Not app 2.3. No add 2.4.	Other hazards itional information available Unknown acute toxicity (GHS US)	

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SECTION 3: Composition/information on ingredients

3.1. Chemical Characterization

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:

	EC-N° CAS-N°		REACH Registration N°	Conc. %	Classification acc. to Regulation (EC) N° 1272/2008 (CLP)	
Substance		CAS-N°			Hazard classes/ hazard categories	Hazard statements
Aluminium Oxide Mineral (non- fibrous)		1344-28-1		0 - 95		
Silicon Carbide		409-21-2		0 - 95		
Zirconium Oxide		1314-23-4		0 - 50		
Cured Resin		N/A		0 - 30		
Inorganic Fluoride		15096-52-3		0 - 30		
Iron Pyrite		12068-85-8		0 - 20		
Calcium Compounds		N/A		0 - 15		
Sulphur Compounds		N/A		0 - 15		
Woven Fiberglass		N/A		0 - 15		
Iron Oxide		1309-37-1		0 - 5		
Titanium Dioxide		13463-67-7		0 - 5		

N/A: Not applicable.

SECTION 4: First aid measures					
4.1. Description of first aid measures					
First-aid measures after inhalation :	Remove victim from source of exposure to fresh air. If breathing is difficult administer oxygen. Seek medical attention.				
First-aid measures after skin contact :	Wash with soap and water. Seek medical advice if skin irritation develops or persists.				
First-aid measures after eye contact : Flush with plenty of water for at least 15 minutes. Seek medical advice if irritation develops or persists.					
First-aid measures after ingestion	Seek medical attention.				
4.2. Most important symptoms and effects	, both acute and delayed				
Symptoms/injuries after inhalation :	Dusts may cause coughing, shortness of breath. Prolonged breathing of dusts may affect breathing capacity.				
Symptoms/injuries after skin contact :	Dusts may cause irritation. May cause abrasions.				
Symptoms/injuries after eye contact :	Dust may irritate or damage the eyes without protection.				
Symptoms/injuries after ingestion :	Symptoms/injuries after ingestion : None under normal use.				
4.3. Indication of any immediate medical attention and special treatment needed					
No additional information available					
SECTION 5: Firefighting measures					

5.1.	Extinguishing media	
Suitable extinguishing media		: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media		: None.

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5.2. S	Special hazards arising from the substance or mixture					
Fire hazard	I	None known.				
Explosion hazard :		None known.				
5.3. A	5.3. Advice for firefighters					
Protection of	during firefighting	: Firefighters should wear full protective gear.				
SECTION	N 6: Accidental release measu	ires				
6.1. P	Personal precautions, protective equi	pment and emergency procedures				
6.1.1. F	or non-emergency personnel					
No addition	al information available					
6.1.2. F	or emergency responders					
	al information available					
6.2. E	invironmental precautions					
None.						
6.3. N	lethods and material for containmen	t and cleaning up				
For contain	ment	No special measures required.				
Methods for	r cleaning up	No special measures required.				
6.4. R	Reference to other sections					
No addition	al information available					
SECTION	N 7: Handling and storage					
7.1. P	Precautions for safe handling					
Precautions for safe handling :		Avoid breathing of dust created by cutting, sanding, grinding or machining. For industrial or professional use only. Damaged product can break apart during use and cause serious injury to face or eyes. Check product for damage such as cracks or nicks prior to use. Replace if damaged. Always wear eye and face protection when working at sanding or grinding operations or when near such operations. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Combustible dust may form by action of this product on another material (substrate). Dust generated from the substrate during use of this product may be explosive if in sufficient concentration with an ignition source. Dust deposits should not be allowed to accumulate on surfaces because of the potential for secondary explosions.				
7.2. C	conditions for safe storage, including	any incompatibilities				
Storage cor	nditions	: Store in a dry place.				

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits:

Ingredient	C.A.S. No.	Agency	Limit type	
		Chemical Manufacturer Recommended Guidelines	TWA:1 fibre/cc	
Aluminium Oxide	1344-28-1	OSHA	TWA(as total dust):15 mg/m ³ ; TWA(respirable fraction):5 mg/m ³	
		ACGIH	TWA(respirable fraction):1 mg/m ³	
		ACGIH	TWA:10 mg/m ³	
Titanium Dioxide	13463-67-7	Chemical Manufacturer Recommended Guidelines	TWA(as respirable dust): 5mg/m ³	
		OSHA	TWA(as total dust):15 g/m ³	

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Inergenia Eluerida	15096-52-3	ACGIH	TWA(as F):2.5 mg/m ³	
Inorganic Fluoride		OSHA	TWA(as dust):2.5 mg/m³; TWA(as F):2.5 mg/m³	
Woven Fiberglass	N/A	Manufacturer determined	TWA(as dust):10 mg/m ³	

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls

8.2.1 Engineering controls

Provide appropriate local exhaust ventilation for sanding, grinding, or machining. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

Warning: Excessive operating speed or generation of extreme heat may result in harmful emissions. Use local exhaust ventilation. Provide local exhaust at process emission sources to control exposure near the source and to prevent the escape of dust into the work area.

Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

8.2.2 Personal protective equipment (PPE)

Eye/face protection

To minimize the risk of injury to face and eyes, always wear eye and face protection when working at sanding or grinding operations or when near such operations. Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended: Safety Glasses with side shields.

Skin/hand protection

Wear appropriate gloves to minimize risk of injury to skin from contact with dust or physical abrasion from grinding or sanding.

Respiratory protection

Assess exposure concentrations of all materials involved in the work process. Consider material being abraded when determining the appropriate respiratory protection. Select and use appropriate respirators to prevent inhalation overexposure. An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure: Half face piece or full face piece air-purifying respirator suitable for particulates.

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SECTION 9: Physical and chemic	
9.1. Information on basic physical ar	
Physical state	: Solid
Appearance	: Solid abrasive
Odor	: Odorless
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data avalable

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Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

9.2. Other information

No additional information available

SECTI	ON 10: Stability and reactivity			
10.1.	Reactivity			
No addit	ional information available			
10.2.	Chemical stability			
The proc	duct is stable at normal handling and storage conditions.			
10.3.	Possibility of hazardous reactions			
Will not o	pocur.			
10.4.	Conditions to avoid			
None.				
10.5.	Incompatible materials			
None.				
10.6.	Hazardous decomposition products			
None known. Refer to section 5.2 for hazardous decomposition products during combustion.				

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:

Dust from grinding, sanding or machining may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Skin Contact:

Mechanical Skin irritation: Signs/symptoms may include abrasion, redness, pain, and itching.

Eye Contact:

Mechanical eye irritation: Signs/symptoms may include pain, redness, tearing and corneal abrasion.

Dust created by cutting, grinding, sanding, or machining may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

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Carcinogenicity:

Ingredient	CAS No.	Class Description	Regulation
Generic: GLASS FILAMENTS	65997-17-3	Anticipated human carcinogen	National Toxicology Program Carcinogens
Generic: GLASS FILAMENTS	65997-17-3	Grp. 2B: Possible human carcinogen	International Agency for Research on Carcinogens
Titanium Dioxide	13463-67-7	Grp. 2B: Possible human carcinogen	International Agency for Research on Carcinogens

Additional Information:

This document covers only the Weiler Corporation product. For complete assessment, when determining the degree of hazard, the material being abraded must also be considered.

This product contains titanium dioxide. Cancer of the lungs has been observed in rats that inhaled high levels of titanium dioxide. No exposure to inhaled titanium dioxide is expected during the normal handling and use of this product. Titanium dioxide was not detected when air sampling was conducted during simulated use of similar products containing titanium dioxide. Therefore, the health effects associated with titanium dioxide are not expected during the normal use of this product.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE>5,000 mg/kg
	Dermal		LD50 estimated to be > 5,000 mg/kg
Aluminium Oxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 2.3 mg/l
	Ingestion	Rat	LD50 > 5,000 mg/kg
	Dermal	Rabbit	LD50 > 2,100 mg/kg
Inorganic Fluoride	Inhalation-Dust/Mist (4 hours)	Rat	LC50 4.5 mg/l
	Ingestion	Rat	LD50 5,000 mg/kg
	Dermal	Rabbit	LD50 > 10,000 mg/kg
Titanium Dioxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 6.82 mg/l
	Ingestion	Rat	LD50 > 10,000 mg/kg
	Dermal		LD50 estimated to be > 5,000 mg/kg
Fiberglass	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg

Acute Toxicity

ATE = acute toxicity estimate

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Skin Corrosion/Irritation

Name	Species	Value
Aluminium Oxide	Rabbit	No significant irritation
Inorganic Fluoride		Minimal irritation
Titanium Dioxide	Rabbit	No significant irritation
Fiberglass		No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Aluminium Oxide	Rabbit	No significant irritation
Inorganic Fluoride		Moderate irritant
Titanium Dioxide	Rabbit	No significant irritation
Fiberglass		No significant irritation

Skin Sensitization

Name	Species	Value
Titanium Dioxide	Human and animal	Not sensitizing

Germ Cell Mutagenicity

Name	Species	Value
Aluminium Oxide	In Vitro	Not mutagenic
Titanium Dioxide	In Vitro	Not mutagenic
Titanium Dioxide	In Vitro	Not mutagenic
Fiberglass	In Vitro	Some positive data exist, but the data are not sufficient for classification

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Carcinogenicity

Name	Species	Species	Value
Aluminium Oxide	Inhalation	Rat	Not carcinogenic
Titanium Dioxide	Ingestion	Multiple animal species	Not carcinogenic
Titanium Dioxide	Inhalation	Rat	Carcinogenic
Fiberglass	Inhalation	Multiple animal species	Some positive data exist, but the data are not sufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name Route Value	Species	Test Result	Exposure Duration
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No additional information available

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Aluminium Oxide	Inhalation	pneumoconiosis pulmonary fibrosis	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL: Not available	occupational exposure
Inorganic Fluoride	Inhalation	bone, teeth, nails, and/or hair	Some positive data exist, but the data are not sufficient for classification		ННА	
Titanium Dioxide	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL: 0.010 mg/l	2 years
		pulmonary fibrosis	All data are negative	Human	NOAEL: Not available	occupational exposure
Fiberglass	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL: Not available	occupational exposure

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Sulfur (7704-34-9)	
LC50 fish 1	866 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
LC50 fish 2	< 14 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
12.2. Persistence and degradab	ility
No additional information available	
12.3. Bioaccumulative potential	
Zirconium oxide (1314-23-4)	
BCF fish 1	(no bioaccumulation)
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Effect on ozone layer	: No additional information available
Effect on the global warming	: No known ecological damage caused by this product.
SECTION 13: Disposal consi	

Dispose of contents/container in accordance with the local/regional/national/international regulations.

The substrate that was abraded must be considered as a factor in the disposal method for this product. Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during the incineration processes.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT Not a dangerous good in sense of transport regulations

SECTION 15: Regulatory information

15.1. US Federal regulations

Aluminum oxide (1344-28-1)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313		
SARA Section 313 - Emission Reporting 1.0 % (fibrous forms)		
Silicon carbide (409-21-2)		
Listed on the United States TSCA (Toxic Subs	tances Control Act) inventory	
Zirconium oxide (1314-23-4)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Trisodium hexafluoroaluminate (15096-52-3)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Iron sulfide (FeS2) (12068-85-8)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		

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Sulfur (7704-34-9)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Iron oxide (Fe2O3) (1309-37-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Titanium dioxide (13463-67-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

15.2. US State regulations

Titanium dioxide (13463	-67-7)			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	No	No	No	
Aluminum oxide (1344-2	8-1)			
U.S Massachusetts - Ri U.S Minnesota - Hazard U.S New Jersey - Right U.S Pennsylvania - RTK	ous Substance List to Know Hazardous Substance I	_ist		
Silicon carbide (409-21-2	2)			
U.S Massachusetts - Ri U.S Minnesota - Hazard U.S New Jersey - Right U.S Pennsylvania - RTK	ous Substance List to Know Hazardous Substance I	_ist		
Zirconium oxide (1314-2	3-4)			
U.S Massachusetts - Rig	ght To Know List			
Trisodium hexafluoroalu	ıminate (15096-52-3)			
U.S New Jersey - Right to Know Hazardous Substance List				
Sulfur (7704-34-9)				
U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List				
Iron oxide (Fe2O3) (1309)-37-1)			
U.S Massachusetts - Right To Know List U.S Minnesota - Hazardous Substance List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List				
Titanium dioxide (13463	-67-7)			
U.S Massachusetts - Ri U.S Minnesota - Hazard U.S New Jersey - Right U.S Pennsylvania - RTM	ous Substance List to Know Hazardous Substance I	_ist		

Note: Iron oxide, titanium dioxide and silica are not added but are materials that may naturally occur in trace amounts within some of the substances listed. Third-party laboratory tests have shown that any residual amount of respirable silica generated when grinding to be well below the OSHA permissible exposure limits.

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SECTION 16: Other information

Full text of H-phrases:

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Acute Tox. 4 (Inhalation)	I (Inhalation) Acute toxicity (inhalation) Category 4	
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2	
Carc. 2	Carcinogenicity Category 2	
Skin Irrit. 2	Skin corrosion/irritation Category 2	
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1	
H315	Causes skin irritation	
H332	Harmful if inhaled	
H351	Suspected of causing cancer	
H372	Causes damage to organs through prolonged or repeated exposure	
H411	Toxic to aquatic life with long lasting effects	

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product