# SAFETY DATA SHEETS

# **This SDS packet was issued with item:** 073650439

N/A

# **DENTSPLY International** DENTSPLY PROSTHETICS

# Safety Data Sheet

Safety Data Sheet (in compliance with Regulation (EC) 1907/2006, Regulation (EC) 1272/2008 and Regulation (EC) 453/2010)

Date Issued: 5 February 2002 Document Number: 378 Date Revised: 27 February 2015 Revision Number: 4

## **1. PRODUCT IDENTIFICATION**

Austenal<sup>®</sup> Cutting Discs Trade Name (as labeled): **Product Identifier (Part/Item Number):** N056100, N056300, N056500 **U.N. Number:** None **U.N. Dangerous Goods Classification:** None **Recommended Use:** Abrasives for cutting dental resin appliances **Restrictions on Use:** For Professional Use Only Manufacturer/Supplier Name: **DENTSPLY** Prosthetics Manufacturer/Supplier Address: 570 West College Ave. York, PA 17401 Manufacturer/Supplier Telephone Number: 717-845-7511 (Product Information) **Emergency Contact Telephone Number:** 800-424-9300 Chemtrec **Email address:** Prosthetics\_MSDS@Dentsply.com

# 2. HAZARD(s) IDENTIFICATION

EU Classification (1999/45/EC): Not Classified as Hazardous

Labeling in accordance with 1999/45/EC: No labeling required

US Hazard Classification: Hazardous

Hazardous Components	C.A.S. # EC#	EINECS #	Substance Classification	WT %
Aluminum Oxide	1344-28-1	215-691-6	Not classified as hazardous	<80%
Iron Oxide	1309-37-1	215-168-2	Not classified as hazardous	<10%

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Titanium dioxide	13463-67-7	236-675-5	Not classified as hazardous	<10%

# 4. FIRST-AID MEASURES

If exposed to dust from polishing or grinding:

Routes of Exposure	First Aid Instructions
Eye	Flush eyes thoroughly with water, holding open eyelids. Get medical attention if irritation persists.
Skin	Wash skin with soap and water after use.
Inhalation	Remove victim to fresh air. If irritation persists, get medical attention.
Ingestion	No adverse effects expected.
Most important symptoms of exposure	Dust may cause eye and respiratory irritation. Dust particles may cause abrasive injury to the eyes. This product contains titanium dioxide, which may cause cancer based on animal studies
Note to Physicians	(Treatment, Testing, and Monitoring): Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Medi	<b>a:</b> Use media appropriate f	Use media appropriate for surrounding fire.		
Fire Fighting Procedures:	Use water to cool fire ex	Use water to cool fire exposed containers.		
Specific Hazards Arising fro the Chemical:	m This product is not com	This product is not combustible		
Precautions for Fire Fighters	G• C	Firefighters should wear full emergency equipment and approved positive pressure self-containing breathing apparatus.		
	Recommended Protective Equipment for Fire Fighters:			
EYES/FACE	HANDS	RESPIRATORY	THERMAL	
Cy	COM/			

# 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, PPE and Emergency Procedures: Avoid contact with eyes. Avoid breathing dust.

Environmental Precautions: Report releases as required by local and national authorities

Methods and Materials for Containment and Clean-up: Pick up, sweep up or vacuum up and place into a container for disposal. Minimized the generation of dust.

Recommend	Recommended Personal Protective Equipment for Containment and Clean-up:			
EYES/FACE	HANDS	RESPIRATORY	THERMAL	

# 7. HANDLING AND STORAGE

**Precautions for Safe Handing:** Avoid breathing dust. Wash hands thoroughly after cutting or grinding. Use with adequate ventilation. Avoid generating dust. Use good housekeeping to prevent the accumulation of dust on surfaces.

Conditions for Safe Storage: No special storage required.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:	
Aluminum Oxide	5 mg/m <sup>3</sup> TWA OSHA PEL (respirable fraction), 15 mg/m <sup>3</sup> TWA OSHA PEL (total dust)) 1 mg/m <sup>3</sup> TWA ACGIH TLV (respirable fraction) (as aluminum insoluble compounds) 1.5 mg/m <sup>3</sup> TWA (respirable), 4 mg/m <sup>3</sup> TWA (inhalable) DFG MAK 10 mg/m <sup>3</sup> (inhalable); 4 mg/m <sup>3</sup> (respirable dust) TWA UK OEL
Iron Oxide	10 mg/m <sup>3</sup> TWA OSHA PEL (fume) 5 mg/m <sup>3</sup> TWA ACGIH TLV (respirable fraction) 5 mg/m <sup>3</sup> TWA UK OEL, 10 mg/m <sup>3</sup> STEL
Titanium Dioxide	15 mg/m <sup>3</sup> TWA OSHA PEL (total dust) 10 mg/m <sup>3</sup> TWA ACGIH TLV 10 mg/m <sup>3</sup> (inhalable); 4 mg/m <sup>3</sup> (respirable dust) TWA UK OEL

Biological Exposure Limits: None

**Appropriate Engineering Controls:** Use adequate general or local exhaust ventilation to maintain exposures below the occupational exposure limits.

## Individual Protection Measures (PPE)

Specific Eye/face Protection: Safety glasses or goggles recommended,

**Specific Skin Protection:** Wear rubber or other impervious gloves to avoid prolonged contact. Impervious clothing as needed to avoid contamination of personal clothing. Recommended glove: Rubber. Consult glove supplier for thickness and breakthrough times.

**Specific Respiratory Protection:** If the exposure limits are exceeded an approved particulate respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory

equipment must be in accordance with all applicable regulations and good industrial hygiene practice. **Specific Thermal Hazards:** None needed.

	<b>Recommended Personal</b>	Protective Equipment	
EYES/FACE	HANDS	RESPIRATORY	THERMAL
Environmental Exposure Cont	rols: Use dust collection if nee	ded to avoid release to the envi	ronment.
General Hygiene Consideration after handling.	ns and Work Practices: Av	void contact with eyes, skin, a	nd clothing. Wash thoroughly
Protective Measures During	Repair and Maintenance of	Contaminated Equipment:	Wear appropriate protective

clothing and equipment.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Abrasive discs.	Explosive limits:	Not applicable
Odor:	May produce an odor in use.	Vapor pressure:	Not applicable
Odor threshold:	None	Vapor density:	Not applicable
рН:	Not applicable	Relative density:	2-4
Melting/freezing point:	Not applicable	Solubility:	Slightly
Initial boiling point and range:	Not applicable	Partition coefficient: n- octanol/water:	Not available
Flash point:	Not flammable	Auto-ignition temperature:	Not applicable
Evaporation rate:	Not applicable	Decomposition temperature:	Not available
Flammability:	Not flammable	Viscosity:	Not applicable
Explosive Properties:	None	Oxidizing Properties:	None

# **10. STABILITY AND REACTIVITY**

**Reactivity:** Not reactive.

Chemical Stability: Stable.

Possibility of Hazardous Reactions: None known.

Conditions to Avoid: None known.

Incompatible materials: None known.

**Hazardous Decomposition Products**: Dust is generated during use. In most cases, the material removed from the base material will be significantly greater than the grinding wheel components.

# 11. TOXICOLOGICAL INFORMATION

#### **Potential Health Effects:**

Eves: Dust generated during grinding may cause mechanical eye irritation.

Skin: Dust may cause abrasive irritation.

Ingestion: No adverse effects expected. Ingestion of large amounts may cause gastrointestinal irritation.

Inhalation: Dust may cause mucous membrane and upper respiratory tract irritation with coughing and sneezing.

Chronic Health Effects: Prolonged skin contact may cause irritation.

<u>Carcinogenicity</u>: Titanium dioxide is classified by IARC as possibly carcinogenic to humans (Group 2B). None of the other components are listed as carcinogens by OSHA, IARC, NTP, ACGIH or the EU Substances Directive.

**Mutagenicity:** No data is available. This product is not expected to cause mutagenic activity.

Medical Conditions Aggravated by Exposure: None known.

#### Acute Toxicity Data:

Aluminum Oxide: Oral rat LD50 >10,000 mg/kg; Inhalation rat LC50 >6.82 mg/L/4 hr; Inhalation rat LC50 7.6 mg/L/1 hr Iron Oxide: No data available.

Titanium Dioxide: Oral rat LD50 >5,000 mg/kg; Inhalation rat LC50 >6.82 mg/L/4 hr.

**Reproductive Toxicity Data:** No data available. This product is not expected to cause adverse reproductive effects.

#### Specific Target Organ Toxicity (STOT):

Single Exposure: No data available.

<u>Repeated Exposure</u>: Male rats were exposed by oral gavage for 29 days to 24,000 mg/kg of titanium dioxide. Under the conditions of this study, no adverse effects at this dose were observed. NOEL 24,000 mg/kg. In a 2 year inhalations, rats were exposed to 10, 50 and 250 mg/kg of titanium dioxide. Bronchioloalveolar adenomas and cystic keratinising squamous cell carcinoma occurred at 250 mg/m<sup>3</sup> TiO2 exposure (the tumours produced were ultimately characterised as primarily benign pulmonary keratin cysts while no compound-related lung tumours were found in rats exposed either to 10 or 50 mg/m<sup>3</sup>.

# **12. ECOLOGICAL INFORMATION**

Toxicity: Aluminum Oxide: No data available. Iron Oxide: No data available. Titanium Dioxide: No data available

Persistence and Degradability: Biodegradation is not applicable to inorganic substances.

Bio-accumulative Potential: The potential for bioacumulate is expected to be low.

Mobility in Soil: No data available.

Other Adverse Effects: None known

Results of PBT/vPvB Assessment: Not required

# **13. DISPOSAL CONSIDERATIONS**

Regulations: Dispose in accordance with all national and local regulations.

Properties (Physical/Chemical) Affecting Disposal: None currently known.

Waste Treatment Recommendations: None known.

# **14. TRANSPORT INFORMATION**

UN Number:	ADR/RID: None	IMDG: None	IATA: None	DOT: None
UN proper shipping name:	ADR/RID: Not Regulated IMDG: Not Regulated IATA: Not Regulated			
	DOT: Not Regulated			
Transport hazard class(es):	ADR/RID: None	IMDG: None	IATA: None	DOT: None
Packaging group:	ADR/RID: None	IMDG: None	IATA: None	DOT: None
Environmental hazards:	ADR/RID: No	IMDG Marine pollutant: No	IATA: No	DOT: No

**Special precautions for user:** Not applicable

# **15. REGULATORY INFORMATION**

**U.S. Federal Regulations** 

US OSHA Hazard Classification: Carcinogen.

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA): This product is not subject to

CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

Toxic Substances Control Act (TSCA): This product is an article and is exempt from the TSCA regulations.

Clean Water Act (CWA): This material is not regulated under the Clean Water Act

Clean Air Act (CAA): This material is not regulated under the Clean Air Act

#### Superfund Amendments and Reauthorization Act (SARA) Title III Information:

SARA Section 311/312 (40 CFR 370) Hazard Categories:

Immediate Hazard:	No	Pressure Hazard:	No
Delayed Hazard:	Yes	Reactivity Hazard:	No
Fire Hazard:	No		

# This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372):

Components	C.A.S. #	WT %
None		

#### State Regulations

**California:** This product contains the following chemicals(s) known to the State of California to cause cancer, birth defects or reproductive harm:

Components	C.A.S. #	WT %
Acrylonitrile	107-13-1	<1 ppm
1, 3 Butadiene	106-99-0	< 1 ppm
Titanium Dioxide	13463-67-7	<10%

#### **International Regulations**

**Canadian Environmental Protection Act:** This product is a manufactured article and not subject to chemical notification requirements.

Canadian Workplace Hazardous Materials Information System (WHMIS): Not a controlled product.

**European Inventory of Existing Chemicals (EINECS):** This product is a manufactured article and not subject to chemical notification requirements.

EU REACH: All components requiring registration have been pre-registered.

**Australian Inventory of Chemical Substances:** This product is a manufactured article and not subject to chemical notification requirements.

**China Inventory of Existing Chemicals and Chemical Substances:** This product is a manufactured article and not subject to chemical notification requirements.

Japanese Existing and New Chemical Substances: This product is a manufactured article and not subject to chemical notification requirements.

**Korean Existing Chemicals List:** This product is a manufactured article and not subject to chemical notification requirements.

**Philippine Inventory of Chemicals and Chemical Substances:** This product is a manufactured article and not subject to chemical notification requirements.

# **16. OTHER INFORMATION**

HMIS Hazard Rating:

Health –1 Flammability – 0 Physical Hazard– 0

Full text of Classification abbreviations used in Section 2 and 3: None

Date of Latest Revision: 27 February 2015

Supersedes: 11 September 2011

Revision Summary: Comprehensive review. Changes to all sections.

Data Sources: US NLM ChemID Plus and HSDB, Substance SDS for components, IUCLID Dataset EU Chemical Bureau, ESIS, Country websites for occupational exposure limits.

#### Dentsply (Australia)

Chemwatch: 4620-23 Version No: 4.1.1 Material Safety Data Sheet according to NOHSC and ADG requirements

#### SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### **Product Identifier**

Product name	Dentsply Cutting Discs & Ultra Thin Discs	
Chemical Name	Not Applicable	
Synonyms	Cutting Discs & Ultra Thin Discs	
Proper shipping name	Not Applicable	
Chemical formula	Not Applicable	
Other means of identification	Not Available	
CAS number	Not Applicable	

#### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified	Dental restoration
uses	

#### Details of the manufacturer/importer

Registered company name	Dentsply (Australia)
Address	11-21 Gilby Road Mount Waverley 3149 VIC Australia
Telephone	+61 3 9538 8240
Fax	+61 3 9538 8260
Website	www.dentsply.com.au
Email	Not Available

#### **Emergency telephone number**

Association / Organisation	Not Available
Emergency telephone numbers	1300 552 929 (Mon-Fri 9am-5pm)
Other emergency telephone numbers	1300 552 929 (Mon-Fri 9am-5pm)

#### **SECTION 2 HAZARDS IDENTIFICATION**

#### Classification of the substance or mixture

NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. According to NOHSC Criteria, and ADG Code.

#### CHEMWATCH HAZARD RATINGS

	Min	Max	
Flammability	0		
Toxicity	2		0 = Minimum
Body Contact	2		1 = Low
Reactivity	0		2 = Moderate 3 = High
Chronic	0		4 = Extreme

Poisons Schedule	Not Applicable	
Risk Phrases	es Not Applicable	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI	

#### Chemwatch Hazard Alert Code: 2

Issue Date: 01/01/2013 Print Date: 07/10/2014 Initial Date: Not Available S.Local.AUS.EN

#### Not Applicable

Relevant risk statements are found in section 2

Indication(s) of danger	Not Applicable

SAFETY ADVICE

Not Applicable

#### Other hazards

May produce discomfort of the eyes, respiratory tract and skin*.
Inhalation may produce health damage*.

#### SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

#### Substances

See section below for composition of Mixtures

#### **Mixtures**

CAS No	%[weight]	Name
409-21-2	NotSpec.	silicon carbide, fibrous form
1332-58-7	NotSpec.	kaolin

#### **SECTION 4 FIRST AID MEASURES**

#### Description of first aid measures

Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	<ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5 FIREFIGHTING MEASURES**

Fire Fighting

#### Extinguishing media

	<ul> <li>There is no restriction on the type of extinguisher which may be used.</li> <li>Use extinguishing media suitable for surrounding area.</li> </ul>
Special hazards arisi	ng from the substrate or mixture
Fire Incompatibility	None known.
Advice for firefighters	5
	Alert Fire Brigade and tell them location and nature of hazard.

Prevent, by any means available, spillage from entering drains or water courses.
Use fire fighting procedures suitable for surrounding area.

• Wear breathing apparatus plus protective gloves in the event of a fire.

	► Non combustible.
Fire/Explosion Hazard	Not considered a significant fire risk, however containers may burn.
	Decomposition may produce toxic fumes of:, silicon dioxide (SiO2May emit poisonous fumesMay emit corrosive fumes.

#### SECTION 6 ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Minor Spills	<ul> <li>Remove all ignition sources.</li> <li>Clean up all spills immediately.</li> <li>Avoid contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> </ul>
Major Spills	<ul> <li>Moderate hazard.</li> <li>CAUTION: Advise personnel in area.</li> <li>Alert Emergency Services and tell them location and nature of hazard.</li> <li>Control personal contact by wearing protective clothing.</li> </ul>
	Personal Protective Equipment advice is contained in Section 8 of the MSDS.

#### SECTION 7 HANDLING AND STORAGE

#### Precautions for safe handling

Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> </ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry area protected from environmental extremes.</li> <li>Store away from incompatible materials and foodstuff containers.</li> </ul>

#### Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Polyethylene or polypropylene container.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	None known

#### PACKAGE MATERIAL INCOMPATIBILITIES

Not Available

#### SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control parameters**

#### OCCUPATIONAL EXPOSURE LIMITS (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	silicon carbide, fibrous form	Silicon carbide (a)	10 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	kaolin	Kaolin (a)	10 mg/m3	Not Available	Not Available	Not Available

#### EMERGENCY LIMITS

Ingredient	TEEL-0	TEEL-1	TEEL-2	TEEL-3
Dentsply Cutting Discs & Ultra Thin Discs	Not Available	Not Available	Not Available	Not Available
Ingredient	Original IDLH		Revised IDLH	
			Revised IDLH	
silicon carbide, fibrous form	Not Available		Not Available	

#### Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.		
Personal protection			
Eye and face protection	<ul> <li>Safety glasses with side shields</li> <li>Chemical goggles.</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This shou include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience.</li> </ul>		
Skin protection	See Hand protection below		
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> </ul>		
Body protection	See Other protection below		
Other protection	<ul> <li>Overalls.</li> <li>P.V.C. apron.</li> <li>Barrier cream.</li> </ul>		
Thermal hazards	Not Available		

#### Recommended material(s)

#### **GLOVE SELECTION INDEX**

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

Dentsply Cutting Discs & Ultra Thin Discs Not Available

Materia	al	СРІ

#### \* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion C: Poor to Dangerous Choice for other than short term immersion **NOTE**: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

#### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Appearance Grey, odourless solid; does not mix with water.

, ibbearance			
Physical state	Divided Solid	Relative density (Water = 1)	2-4
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Applicable
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Available	Taste	Not Available

Created by Global Safety Management, Inc. -Tel: 1-813-435-5161 - www.gsmsds.com

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	P1 Air-line*	-	PAPR-P1 -
up to 50 x ES	Air-line**	P2	PAPR-P2
up to 100 x ES	-	P3	-
		Air-line*	-
100+ x ES	-	Air-line**	PAPR-P3

\* - Negative pressure demand \*\* - Continuous flow

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

Evaporation rate	Not Applicable	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Applicable
Vapour pressure (kPa)	Not Applicable	Gas group	Not Available
Solubility in water (g/L)	Partly Miscible	pH as a solution(1%)	Not Applicable
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Available

#### SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7		
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>		
Possibility of hazardous reactions	See section 7		
Conditions to avoid	ee section 7		
Incompatible materials	See section 7		
Hazardous decomposition products	See section 5		

#### SECTION 11 TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

	-		
Inhaled	Inhalation of dusts, generated by the material during the course of normal handling, may be damaging to the health of the individual. Limited evidence or practical experience suggests that the material may produce irritation of the respiratory system, in a significant number of individuals, following inhalation. In contrast to most organs, the lung is able to respond to a chemical insult by first removing or neutralising the irritant and then repairing the damage. The repair process, which initially evolved to protect mammalian lungs from foreign matter and antigens, may however, produce further lung damage resulting in the impairment of gas exchange, the primary function of the lungs.		
Ingestion	The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health).		
Skin Contact	Limited evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis.		
Eye	Limited evidence exists, or practical experience suggests, that the material may cause eye irritation in a substantial number of individuals and/or is expected to produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur. • Hazard relates to dust released by cutting, grinding, trimming or other shaping operations.		
Chronic	Long term exposure to high dust concentrations may cause changes in lung function (i.e. pneumoconiosis) caused by particles less than 0.5 micron penetrating and remaining in the lung. A prime symptom is breathlessness. Lung shadows show on X-ray.		
Dentsply Cutting Discs & Ultra Thin Discs	TOXICITY IRRITATION Not Available Not Available		

silicon carbide,	TOXICITY	IRRITATION
fibrous form	Not Available	Not Available
kaolin	TOXICITY Not Available	IRRITATION Not Available

Not available. Refer to individual constituents.

SILICON CARBIDE, FIBROUS FORM	No significant acute toxicological data identified in literature search.		
KAOLIN	No significant acute toxicological data identified i for bentonite clays: Bentonite (CAS No. 1302-78-9) consists of a gro were deposited in water. The expected acute oral toxicity of bentonite in h inflammation, uveitis and retrocorneal abscess fr prophypaste.	oup of clays formed by cry numans is very low (LD50>	15 g/kg). However, severe anterior segment
Acute Toxicity	0	Carcinogenicity	0
Skin Irritation/Corrosion	0	Reproductivity	0
Serious Eye Damage/Irritation	0	STOT - Single Exposure	0
		STOT - Repeated	0
Respiratory or Skin sensitisation	0	Exposure	0

Legend: 👽 – Data required to make classification available

🗙 – Data available but does not fill the criteria for classification

🚫 – Data Not Available to make classification

## **CMR STATUS**

Not Applicable

#### SECTION 12 ECOLOGICAL INFORMATION

#### Toxicity

**DO NOT** discharge into sewer or waterways.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation	
	No Data available for all ingredients	

#### Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

#### SECTION 13 DISPOSAL CONSIDERATIONS

#### Waste treatment methods

	<ul> <li>Containers may still present a chemical hazard/ danger when empty.</li> <li>Return to supplier for reuse/ recycling if possible.</li> </ul>
Product / Packaging	Otherwise:
disposal	• If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to
	store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
	Where possible retain label warnings and MSDS and observe all notices pertaining to the product.

#### **SECTION 14 TRANSPORT INFORMATION**

#### Labels Required

•	
Marine Pollutant	NO
HAZCHEM	Not Applicable

#### Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### **SECTION 15 REGULATORY INFORMATION**

#### Safety, health and environmental regulations / legislation specific for the substance or mixture

silicon carbide, fibrous form(409-21-2) is found on the following regulatory lists	"Australia Exposure Standards", "Australia Inventory of Chemical Substances (AICS)"
kaolin(1332-58-7) is found on the following regulatory lists	"Australia Exposure Standards","International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs","Australia Inventory of Chemical Substances (AICS)"

#### **SECTION 16 OTHER INFORMATION**

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net/references

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

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