SAFETY DATA SHEETS

This SDS packet was issued with item:

077056849

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

070423640 070423657 070423665 077056831 077056856 077056864

Reference Code **Revision Date Revision Number** Material / Trade Name VPDR8025F (29 Cut) & I/PDR8024F (53 Cut)

Reviewed Aug. 2014

Velopex AquaCut 29 Cut & Velopex AquaCut 53 Cut

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SUBSTANCE IDENTIFICATION

Material / Trade Name

Velopex AquaCut 29 Cut & Velopex AquaCut 53 Cut Cutting Agent (Aluminium Oxide)

Material Type Company

Medivance Instruments Limited

Address

Barretts Green Road Harlesden London

NW107AP

Telephone Fax

020 8965 2913 020 8963 1270

Email

enquiries@velopex.com

COMPOSITION

Substance Aluminium Oxide % Wt. >90

Cas Number 1344-28-1

EC (EINECS) Number 215-691-6

HAZARD IDENTIFICATION

a - Hazard Symbols b - Risk & Safety

Not Applicable Do not breath dust Avoid contact with eyes

FIRST-AID MEASURES

a - Inhalation

No toxic effects

Classified as nuisance material

b - Eyes

Irrigate with water for at least 15 minutes.

If irritation persists, contact doctor

c - Skin No harmful effects

Remove contaminated clothing

Wash with soap and clean with plenty of water

d - Ingestion

No toxic effects. Treat symptomatically. Seek medical attention as necessary

Reference Code Revision Date Revision Number Material / Trade Name I/PDR8025F (29 Cut) & I/PDR8024F (53 Cut)

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5 - FIRE FIGHTING MEASURES

a – Suitable Extinguishers b – Unsuitable Extinguishers c – Hazardous Decomposition Not applicable. Non flammable material Not applicable. Non flammable material

Not applicable

None

6 – ACCIDENTAL RELEASE MEASURES

a - Exposure Controls

d - Special Procedures

Isolate the spillage

b - Personal Protection c - Disposal Considerations Clean as appropriate. Use vacuum to remove fine dust If eye contact is possible wear eye protection

Scoop up and plastic container to await transfer

Dispose of in accordance with Local Authority regulations

7 – HANDLING AND STORAGE

a - Handling

Avoid creating dust

Avoid eye contact

b - Storage

Wear suitable protective clothing

Store in tightly closed labelled containers

8 - EXPOSURE CONTROL

Occupational Exposure Limit Biological Exposure Limit Protective Equipment 8hr TWA 10mg/m3 total dust 4mg/m3 respirable dust

Not assigned

Wear appropriate eye and respiratory protection



Wear Nitrite rubber gloves



Use in well ventilated areas



If skin is contaminated wash off immediately



Keep skin covered



If splashing is likely

I/PDR8025F (29 Cut) & I/PDR8024F (53 Cut) Reference Code **Revision Date**

Reviewed Aug. 2014

Revision Number

Velopex AquaCut 29 Cut & Velopex AquaCut 53 Cut Material / Trade Name

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9 - PHYSICAL AND CHEMICAL PROPERTIES

White solid **Appearance** Odour n/a n/a **Boiling Point / range** >3000°C Melting Point / range 2050°C Flash Point n/a

Flammability Non flammable

Auto Flammability n/a **Explosive Properties** n/a **Oxidising Properties** None Vapour Pressure n/a **Relative Density** 3.95 g/cm² Solubility Insoluble **Partition Coefficient** n/a Miscibility n/a Vapour Density n/a **Evaporation Rate** n/a Viscosity n/a

n/a = not applicable

10 - STABILITY AND REACTIVITY

Stability Stable and inert Hazardous Polymerisation Will not occur

Conditions to Avoid n/a **Materials to Avoid** n/a

Hazardous Decomposition

Products

None known

11 – TOXICOLOGICAL INFORMATION

Rat intra-pleural TD LO 90 mg/kg

Health Effects (Classified as non toxic) Irritating to eyes

Acute Effects None known **Chronic Effects** None known

ECOLOGICAL INFORMATION

No adverse environmental effects foreseen

Reference Code **Revision Date Revision Number** Material / Trade Name I/PDR8025F (29 Cut) & I/PDR8024F (53 Cut)

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13 – DISPOSAL CONSIDERATIONS

Dispose of in accordance with Local Authority regulations

14 - TRANSPORT INFORMATION

UN/SI Number

n/e IMO n/e

IATA/ICAO n/e ADR/RID n/e **Transport Name**

Road - Non hazardous

Hazchem/Kemler Code **Marine Pollutant** No

n/e

Packing Group n/e **Packing Group** n/e n/e

n/e = none established

15 – REGULATORY INFORMATION

a - Hazard Symbols

b - Risk and Safety c - Other Regulations Not applicable Not applicable

Health and Safety at Work Act 1974

Control of Substances Hazardous to Health Regulations 1999

Environmental Protection Act 1990

d - Transport Information

UN/SI Number

IMO

IATA/ICAO n/e ADR/RID n/e **Transport Name**

Hazchem/Kemler Code **Marine Pollutant**

Road - Non hazardous n/e

n/e

n/e

No

Packing Group

Packing Group Item

n/e n/e n/e

n/e = none established

OTHER INFORMATION

The Aluminium Oxide used in the Velopex 29 cut and 53 cut contains no free Silica and is classified as a nuisance material. Dust exposure limits are given in EH/40 published by the Health and Safety Executive.

This data sheet is compiled to be of assistance but is without guarantee. Users are responsible for safe working.

ProCut/ProCut⁺ SAFETY DATA SHEET VELOPEX ALUMINIUM OXIDE



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

1.1 Product identifier

Product Name I/PDR 8025F (29 Cut) Aluminium Oxide

I/PDR 8024F (53 cut) Aluminium Oxide

Synonyms PROCUT, PROCUT⁺, Alumina

1.2 Uses of the product

Identified Uses Dental abrasive for professional use

Uses Advised Against None known

1.3 Details of the supplier of the safety data sheet

Supplier Medivance Instruments Ltd.

Barretts Green Road

Harlesden London NW10 7AP

T +44 (0) 20 8965 2913 F +44 (0) 20 8963 1270 enquiries@velopex.com

1.4 Emergency telephone number

020 8965 2913

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification

Not applicable

2.2 Label elements

Does not require labeling under the CLP Regulation (EC) No. 1272/2008. But please take note of this product information. No risk of silicosis during application.

<u>Safety Instructions</u> Possible dust exposure due to fine dust particles.

Do not breathe dust.

Avoid contact with eyes.

2.3 Other hazards

Not known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredients | Mean Values | | |
|---|-------------|--|--|
| Alumina (Al ₂ O ₃) | 99.69% | | |
| Titanium dioxide (TiO ₂) | -/- | | |

| Chemical Characteristation | EINECS | CAS No. | (1) REACH Registration No. (2) CLP Notification No. | Classification according to CLP Regulation EC No. 1272 / 2008 | |
|---|-----------|------------|---|--|-------------------|
| | | | | Hazard classes / Hazard categories | Hazard statements |
| Alumina (Al ₂ O ₃) | 215-691-6 | 1344-28-1 | (1) 01-2119529248-35-0010 | -/- | -/- |
| | | | (2) 02-2119709295-38-0000 | | |
| Titanium dioxide (TiO ₂) | 236-675-5 | 13463-67-7 | (2) 02-2119879066-28-0000 | -/- | -/- |

Hazardous substances

No dangerous ingredients

Substances with prescribed EC exposure limits

Does not contain substances with EC exposure limits

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General Information

Consult a doctor in case of health disorders.

After Inhalation

Provide the affected person with fresh air. Consult a doctor in case of irritation of the respiratory tract.

After eye contact

Remove contact lenses and Irrigate with water for at least 15 minutes. If irritation persists, then consult doctor

After skin contact

No harmful effects Remove contaminated clothing Wash with soap and plenty of water

After swallowing

Rinse mouth and drink plenty of water. Do not induce vomiting. If you feel unwell, seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Not known

4.3 Indication of any immediate medical attention and special treatment need

Treat symptomatically

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Product does not burn. Match extinguishing measures to ambient situation.

Unsuitable extinguishing media

Not known

5.2 Special hazards arising from the product

Not known

5.3 Advice for firefighters

Match the firefighting measures to the environmental conditions.

Additional information

Not known

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 personal precautions

Avoid dust formation

6.2 Environmental protection precautions

Not known

6.3 Methods and material for containment and cleaning up

Pick up mechanically and dispose of properly.

6.4 References to other sections

Refer to protective measures in sections 7 and 8.

Additional Information

Not known

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Information on safe handling

Avoid dust formation

Information on fire and explosion protection

No special fire protection measures are neccessary

Additional Information

Not known

7.2 Conditions for safe storage, including any incompatibilities

Information on storage conditions

Always store product in dry conditions.

Requirements for storage rooms and containers

No special requirements needed.

Storage class VCI

LGK 13 (non-combustible solids)

7.3 Specific end use(s)

Dental air abrasion powder for cutting, caries removal and cavity preparation.

SECTION 8: LIMITATION AND MONITORING OF EXPOSURE/PERSONAL PROTECTICE EQUIPMENT

8.1 Control parameters

Occupational exposure limit values in the workplace and/or biological limit values

Occupational Exposure Limits (OEL) in Germany for dusts

Inhalable fraction (E) Respirable fracton (A) 10 mg/m3 1.25 mg/m3

with exceeding factor 2 each, ref. TRGS 900

Community exposure limits

Country specific. Please inquire in individual cases.

8.2 Exposure Controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over the use of personal protective equipment. Provide adequate ventilation. This can be achieved by local suction or general air extraction.

Aluminium Oxide is not a hazardous substance, thus only the general dust limit value applies.

Suitable assessment methods tap verify the effectiveness of the protective measures taken include metrological and non-metrological determination methods as described in the Technical Rules for hazardous Substances (TRGS) 4021 and BS EN 14042 "Workplace areas, Guidelines for the implementation and application of processes for assessment of exposure to chemical and biological agents".

Personal protective equipment

The use of personal protective equipment is dependent on the concentrations and quantity of hazardous substances and their use in specific workplaces.

Respiratory protection

Normally, no personal respiratory protective equipment is necessary. In case of insufficient ventilation or exceeded workplace limits, a protective breathing mask should be worn (FFP filtering half mask depending on the existing concentration).

Hand protection

Wear appropriate gloves

Eye protection

Tight-sealing protective eyewear (dust-protection goggles) in accordance with EN 166:2001.

Body protection

With normal use, no body protection by half or full-body coverall and boots is required.

Information on industrial hygiene

Minimum standards for protective measure when handling Working materials are listed in TRGS 500.

Do not eat, drink, smoke or take drugs while using this product.

Avoid contact with skin, eyes and clothing.

Remove soiled or soaked clothing immediately.

Wash hands before breaks and at end of work.

Protect skin by using skin creams.

Environmental protection measures

See sections 6 and 7; no further action is required

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Appearance Angular
Physical state Solid
Colour White
Odour Odourless

Safety data

Explosion hazard The product itself is not explosive; however, formation of explosive air/dust mixtures is possible.

Lower explosion limit
Upper explosion limit
Vapour pressure

Not known
Not relevant

Specific gravity approx. 3.9 to 4.1g/cm3

Flow time
Water solubility
pH value
Boling point/range

Not relevant
Insoluble in water
Not applicable
>3000 °C

Flash point Not determined as product is not flammable

Melting point approx. 2000 °C

Ignition temperature Not determined as product is not flammable

9.2 Other Information

None

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Alumina is non-reactive and does not change with proper handling and storage.

10.2 Chemical stability

Alumina is chemically stable and does not change with proper handling and storage.

10.3 Possibility of hazard reactions

No hazardous reactions known.

10.4 Conditions to avoid

None.

10.5 Incompatible materials

No hazardous reactions known.

10.6 Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

According to current IFA reports the product contains no silicosis-inducing, toxic or carcinogenic components. The indications given in section 8 of this product information must be observed.

Acute Toxicity
Irritation
No data on the product available
Corrosivity
No data on the product available
Sensitisation
No data on the product available
No data on the product available
Repeated dose toxicity
No known toxicity of Alumina

CMR effects (carinogenic, mutagenic and toxic to reproduction)

No carcinogenic effect according to IFA reports

Summarised evaluation of the CMR properties No known CMR properties

Practical experience (relevant for classification and other observations)

No data on the product available

 Carcinogenicity
 No known carcinogenicity of Alumina

 Mutagenicity
 No data on the product available

 Reproductive toxicity
 No data on the product available

Other information Not known

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

No known effects

Ecotoxicity

For Aluminium Oxide no environmental problems are to be expected when handled and used properly.

Fish toxicity

Harmful effects for aquatic organisms are not expected.

Aquatic invertebrates

Harmful effects for aquatic organisms are not expected.

Water plants

Harmful effects for aquatic organisms are not expected.

12.2 Persistence and degradability

Based on current experience, this product is inert and not degradable.

12.3 Bioaccumulative potential

No data available. Accumulation in biological materials is rather unlikely, as it is inert and insoluble.

12.4 Mobility in soil

Potential not known

12.5 Results of PBT and vPvB assessment

Not relevant. The substances in this product do not meet the criteria for classification as PBT or vPvB.

12.6 Other harmful effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Alumina. If recycling is not possible, waste must be disposed of in compliance with national and local regulations. Confirm the exact waste code with the disposer.

13.2 Packaging

National and local regulations must be followed.

Contaminated packaging

Packaging with Aluminium Oxide residues can be recycled.

Cleaned packaging

Packaging can be reused after being cleaned or recycled.

SECTION 14: TRANSPORT INFORMATION

Alumina is not dangerous goods.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislations specific for the product

EU Legislation

Not known

National regulations

Water hazard class

Not hazardous to water; classification according to VwVwS, Annex 4.

Technical instruction on air quality (TA-Luft)

Substances not mentioned by name.

<u>Hazardous Incident Ordinance (12. BlmSchV [German Federal Immission Control Regulation])</u>

Substances not mentioned by name.

Chemicals Prohibition Ordinance

Substances not mentioned by name.

Relevant Technical Rules for Hazardous Substances

Contains no hazardous substances.

Employment Restrictions

Not known

Miscellaneous

Aluminium Oxide is not subject to the VOC Regulation.

International regulations

All Aluminium Oxide ingredients are listed with TSCA, A1CS, DSL (NDSL), NEPA and PICCS and registered with MITI / ENCS under 1-23

15.2 Chemical Safety Assessment

Not relevant

SECTION 16: OTHER INFORMATION

Further applicable EC directives

Not known

Restrictions on use recommended by the manufacturer

For Dental application only.

<u>Literature and data sources</u>

Regulations

REACH Regulation (EC) No. 1907/2006 CLP Regulation (EC) No. 1272/2008 Hazardous Substances Ordinance (GefStoffV) Commission Decision 2000/532/EC (AVV) Transport Regulations according to ADR, RID and IATA TRGS 900 VOC Regulation (ChemVOCFarbV)

Hazard statements, referred to in section 2 and 3 according to Regulation (EC) No. 1272/2008:

None

Legend

ADR European agreement concerning the international carriage of dangerous goods by road

AVV/EWC European Waste Catalogue

BlmSchV Regulation on the Implementation of the (German) Federal Immission Control Ordinance

CAS Chemical Abstracts Service EC European Community EN European Standard

IATA-DGR International Air Transport Association-Dangerous Goods Regulations

PBT persistent, bioaccurnulative, toxic

RID Regulations concerning the International Carriage of Dangerous Goods

TRGS Technical Rules For hazardous Substances

TSCA Toxic Substances Control Act
VOC Volatile Organic Compounds (VOCs)
vPvB very persistent and very bioaccumulative

VwVwS Administrative Regulation on Substances Hazardous to Water

Issued by Chemistry Manager

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