

SAFETY DATA SHEETS

This SDS packet was issued with item:

071614502

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

071613629 071613637 071613801 071613835 071613959 071613983 071613991 071614007 071614023 071614031
071614197 071614361 071614403 071614411 071614429 071614486 071614494 071620400 071620418

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).

071613843



SAFETY DATA SHEET

Revision Date 20/08/2013

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

1.1 Product identifier

Product Name **Image Alginate**
Synonyms Alginate impression materials

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

Recommended Use Dental impression material
Uses advised against No information available

1.3 Details of the supplier of the safety data sheet

Dux Dental B.V.
Zonnebaan 14
3542 EC Utrecht
The Netherlands
Tel: +31 (0)30-24 10 924
E-mail: info@dux-dental.com

1.4 Emergency telephone number

National Poisons Information Service (London Centre)
+44 20 7771 5307

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to EU Directives 67/548/EEC or 1999/45/EC
Xi; R43 - Xn; R48/20 - R52/53

2.2 Label elements

This product is a medical device which is regulated under Directive 2007/47/EC (the Medical Device Directive) and complies with ISO 1563:1990. As such it does not present a significant risk to the user or patient when used in accordance with manufacturer's instructions. A Safety Data Sheet is not required for medical devices according to Regulation No 1907/2006 (REACH, Article 2, point 6). This Safety Data Sheet is supplied as an additional service. The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

2.3 Other hazards

This product contains respirable quartz as an impurity.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical Name	EC-No	CAS-No	Weight %	Classification (67/548/EEC)	Classification (1272/2008/EC)	REACH Registration Number
Diatomaceous earth, flux-calcined	272-489-0	68855-54-9	>70	Xn; R48/20	STOT RE 2 H373	no data available
Dipotassium hexafluorotitanate	240-969-9	16919-27-0	1-2.5	Xn; R22-37/38-41-43	Acute Tox. 4 H302 Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Dam. 1 H318 STOT SE 3 H335	no data available
Tetrasodium pyrophosphate	231-767-1	7722-88-5	<1	Xi; R37-41	Eye Dam. 1 H318 STOT SE 3 H335	no data available
Magnesium oxide	215-171-9	1309-48-4	<1	-	-	no data available
Zinc oxide	215-222-5	1314-13-2	<0.25	N; R50/53	Aquatic Acute 1 H400 Aquatic Chronic 1 H410	no data available

For the full text of the R-phrases mentioned in this Section, see Section 16.
For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice	No hazards which require special first aid measures.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
Skin contact	Wash skin with soap and water. Get medical attention if irritation develops and persists.
Ingestion	Get medical attention immediately if symptoms occur.
Inhalation	Move to fresh air. Get medical attention immediately if symptoms occur.
Protection of first-aiders	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

4.2 Most important symptoms and effects, both acute and delayed

Main symptoms	May cause sensitisation by skin contact. Causes damage to organs through prolonged or repeated exposure if inhaled.
----------------------	---

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	Treat symptomatically.
---------------------------	------------------------

SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media**

Suitable extinguishing media The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which must not be used for safety reasons None known.

5.2 Special hazards arising from the substance or mixture

Special hazard None in particular.

5.3 Advice for firefighters

Special protective equipment for fire-fighters Wear self-contained breathing apparatus and protective suit.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

No special precautions.

6.2 Environmental precautions

Should not be released into the environment.

6.3 Methods and material for containment and cleaning up

Sweep up and shovel into suitable containers for disposal.

6.4 Reference to other sections

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE**7.1 Precautions for safe handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid dust formation. Avoid contact with skin, eyes and clothing.

7.2 Conditions for safe storage, including any incompatibilities

Store in original container. Keep container tightly closed in a dry and well-ventilated place. Keep away from direct sunlight.

7.3 Specific end use(s)

Exposure Scenario Not available.

Other information Not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Chemical Name	European Union	The United Kingdom	France	Spain	Germany
Diatomaceous earth, flux-calcined					MAK: 0.3 mg/m ³ TWA: 0.3 mg/m ³
Dipotassium hexafluorotitanate					TWA: 1 mg/m ³
Tetrasodium pyrophosphate		TWA: 5 mg/m ³	VME: 5 mg/m ³	VLA-ED: 5 mg/m ³	
Magnesium oxide		TWA: 10 mg/m ³ as Mg (Inhalable) TWA: 4 mg/m ³ as Mg (respirable)	VME: 10 mg/m ³ (fume)	VLA-ED: 10 mg/m ³	
Zinc oxide			VME: 5 mg/m ³ (fume)	VLA-ED: 5 mg/m ³ VLA-EC: 10 mg/m ³	

Chemical Name	Italy	Portugal	Netherlands	Denmark	Poland
Diatomaceous earth, flux-calcined					NDS: 2.0 mg/m ³ NDS: 1.0 mg/m ³
Dipotassium hexafluorotitanate		TWA: 2.5 mg/m ³	STEL: 2 mg/m ³	TWA: 2.5 mg/m ³	NDSch: 3 mg/m ³ NDS: 1 mg/m ³
Tetrasodium pyrophosphate				TWA: 5 mg/m ³	
Magnesium oxide		VLE-MP: 10 mg/m ³ (inhalable)		GV: 6 mg/m ³ as Mg	NDS: 5 mg/m ³ (fume) NDS: 10 mg/m ³ (dust)
Zinc oxide				GV: 4 mg/m ³	

Chemical Name	Belgium	Sweden	Hungary	Finland	Czech Republic
Dipotassium hexafluorotitanate			STEL: 10 mg/m ³ TWA: 2.5 mg/m ³ *S		
Tetrasodium pyrophosphate	TWA: 5 mg/m ³				
Magnesium oxide	TWA: 10 mg/m ³		TWA: 6 mg/m ³ STEL: 24 mg/m ³		Ceiling: 10 mg/m ³ TWA: 5 mg/m ³
Zinc oxide	TWA: 5 mg/m ³ (inh) STEL: 10 mg/m ³ (inh)	NGV: 5 mg/m ³	STEL: 20 mg/m ³ TWA: 5 mg/m ³	TWA: 2 mg/m ³ STEL: 10 mg/m ³	Ceiling: 5 mg/m ³ TWA: 2 mg/m ³

Legend:

* Skin designation

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2 Exposure controls

Appropriate engineering controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye protection	No special protective equipment required.
Hand protection	Protective gloves.
Skin and body protection	Long sleeved clothing.
Respiratory protection	In case of insufficient ventilation wear suitable respiratory equipment.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

Environmental Exposure Controls The product should not be allowed to enter drains, water courses or the soil.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES
--

9.1 Information on basic physical and chemical properties

Physical state @20°C	solid
Appearance	Powder
Colour	various
Odour	pleasant
pH	No information available
Melting/freezing point	No information available
Boiling point/boiling range	No information available
Flash point	No information available
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Flammability Limits in Air	No information available
Vapour pressure	No information available
Vapour density	No information available
Relative density	No information available
Solubility	
Water solubility	Formation of gel
Partition coefficient (n-octanol/water)	No information available
Autoignition Temperature	Not applicable
Decomposition temperature	No information available
Viscosity, dynamic	No information available
Explosive properties	No information available
Oxidising Properties	No information available

9.2 Other information

Density	various
----------------	---------

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerisation does not occur.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

None in particular.

10.6 Hazardous decomposition products

None under normal use.

52

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Ingestion	No known effect.
Skin contact	No known effect.
Inhalation	No known effect.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Dipotassium hexafluorotitanate	169 mg/kg (Rat)		
Tetrasodium pyrophosphate	2000 mg/kg (Rat)		
Zinc oxide	5000 mg/kg (Rat)		

Skin corrosion/irritation	No known effect.
Serious eye damage/irritation	No known effect. Dust contact with the eyes can lead to mechanical irritation.
Respiratory or skin sensitisation	May cause sensitisation by skin contact.
Germ cell mutagenicity	Not known to cause heritable genetic damage.
Carcinogenicity	Contains no ingredient listed as a carcinogen.
Reproductive toxicity	Not known to cause birth defects or have a deleterious effect on a developing fetus. Not known to adversely affect reproductive functions and organs.
STOT-single exposure	No known effect.
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure. Route of Exposure: Inhalation.
Aspiration hazard	No known effect.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates.
Dipotassium hexafluorotitanate	EC50: 95 mg/L Desmodesmus subspicatus 96 h			
Zinc oxide		LC50: 1.1 mg/L Oncorhynchus mykiss 96 h		EC50: >1000 mg/L Daphnia magna 48h

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste from residues / unused products

Dispose of as hazardous waste in compliance with local and national regulations.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: TRANSPORT INFORMATION

According to. ADR, RID, ADN, IMDG, ICAO.

14.1 UN number

Not regulated.

14.2 UN proper shipping name

Not regulated.

14.3 Transport hazard class(es)

Not regulated.

14.4 Packing group

Not regulated.

14.5 Environmental hazards

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Restrictions on use**

None.

Other regulations

This product is a medical device which is regulated under Directive 2007/47/EC (the Medical Device Directive). As such it does not present a significant risk to the user or patient when used in accordance with manufacturer's instructions. A Safety Data Sheet is not required for medical devices according to Regulation No 1907/2006 (REACH, Article 2, point 6). This Safety Data Sheet is supplied as an additional service.

15.2 Chemical safety assessment

Not required.

SECTION 16: OTHER INFORMATION**Full text of R-phrases referred to under sections 2 and 3**

R22 - Harmful if swallowed

R37 - Irritating to respiratory system

R37/38 - Irritating to respiratory system and skin

R41 - Risk of serious damage to eyes

R43 - May cause sensitisation by skin contact

R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H335 - May cause respiratory irritation

H373 - May cause damage to lung through prolonged or repeated exposure by inhalation

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

Revision Note

Format updated in compliance with European REACH and CLP regulations.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text