

DIA – Fast Setting

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Mixture identification: Product Name: Code:

DIA Dental Impression Alginate – Fast Setting 3S1002, 3S1000, 3S1001

1.2. Relevant identified uses of the substance or mixture and uses advised against For professional use only. Alginate for dental impression.

1.3. Details of the supplier of the safety data sheet

Name TRAYART srl Via Paiette, 13/Q 35040 Castelbaldo (PD) Italy tel. +39 0425 546515 Competent person responsible for the safety data sheet: info@trayart.it

1.4. Emergency telephone number

tel. +39 0425-546515

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

STOT RE 2, H373 May cause damage to organs through prolonged or repeated exposure. Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

The Regulation EC 1272/2008, on classification, labelling and packaging of substances and mixtures (CLP), shall not apply to a medical device in the finished state used in direct physical contact with the human body according to art. 1.5, letter d). Therefore the product is exempted from the CLP labeling requirements.

Hazard pictograms:



Warning

Hazard statements:

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

P260 Do not breathe dust.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314 Get medical advice/attention if you feel unwell.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Contains



Cristobalite

Special provisions according to Annex XVII of REACH and subsequent amendments: None

2.3. Other hazards

Classification of the mixture is based on the results of an in vitro assay conducted in accordance with the guidelines provided by OCSE (OECD Test Guideline 437 resp. EU Method B.47 – Bovine Corneal Opacity and Permeability (BCOP) Test Method) and GLP certified - Good Laboratory Practices. For more information refer to section 11.

No PBT, vPvB or endocrine disruptor substances present in concentration $\geq 0.1\%$ Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

Not Applicable

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numbe	er	Classification
>= 5% - < 8%	Cristobalite	CAS: EC:	14464-46-1 238-455-4	STOT RE 1 H372 Causes damage to organs (lungs) through prolonged or repeated exposure if inhaled.
>= 1% - < 3%	Dipotassium exafluorotitanate		16919-27-0 240-969-9 01-21199782 68-20-XXXX	Acute Tox. 4 H302 Harmful if swallowed. Eye Dam. 1 H318 Causes serious eye damage. Acute Toxicity Estimate: ATE - Oral 324 mg/kg bw

Substances in nanoform:

>= 3% - < 5% Magnesium hydroxide

REACH No.: 01-2119488756-18-XXXX, CAS: 1309-42-8, EC: 215-170-3

>= 1% - < 3% Dipotassium exafluorotitanate REACH No.: 01-2119978268-20-XXXX, CAS: 16919-27-0, EC: 240-969-9

>= 0,5% - < 2,5% Silicic acid, calcium salt REACH No.: 01-2119427745-34-XXXX, CAS: 1344-95-2, EC: 215-710-8

>= 0,1% - < 0,3%

5,12-Dihydro-2,9-dimethylquino[2,3-b]acridine-7,14-dione REACH No.: 01-2119456804-33-XXXX, CAS: 980-26-7, EC:

213-561-3

>= 0,1% - < 0,3% 29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper - Nanoform CAS: 147-14-8, EC: 205-685-1

> <0,1% Silicon dioxide CAS: 112926-00-8



SECTION 4: First aid measures

TRAYART s.r.l.

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4.1. Description of first aid measures In case of skin contact: Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. Wash with plenty of water and soap. Wash thoroughly the body (shower or bath). Remove contaminated clothing immediatley and dispose off safely. In case of eyes contact: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of Ingestion: Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY. In case of Inhalation: Remove casualty to fresh air and keep warm and at rest. 4.2. Most important symptoms and effects, both acute and delayed None 4.3. Indication of any immediate medical attention and special treatment needed In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Treatment: None SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media: Water. Carbon dioxide (CO2). Extinguishing media which must not be used for safety reasons: None in particular. 5.2. Special hazards arising from the substance or mixture Do not inhale explosion and combustion gases. Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel: Wear personal protection equipment. Remove persons to safety. See protective measures under point 7 and 8. For emergency responders: Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

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6.3. Methods and material for containment and cleaning up Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling Avoid contact with skin and eyes, inhalation of vapours and mists. Don't use empty container before they have been cleaned. Before making transfer operations, assure that there aren't any incompatible material residuals in the containers. See also section 8 for recommended protective equipment. Advice on general occupational hygiene: Contamined clothing should be changed before entering eating areas. Do not eat or drink while working. 7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed. Incompatible materials: See section 10.5. Instructions as regards storage premises: Adequately ventilated premises.

7.3. Specific end use(s)

See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DIA Fast Setting Cristobalite - CAS: 14464-46-1

OEL Type	TWA	Duratio	STEL	Duratio	Notes	Country
		n		n		
EU	0.1 mg/m3	8h			Respirable	
TLV	0.1 mg/m3	8h			Respirable	ITALY
ACGIH	0.025 mg/m3	8h			(R), A2 - Pulm fibrosis, lung cancer	

Dipotassium exafluorotitanate - CAS: 16919-27-0

OEL Type	TWA	Duratio	STEL	Duratio	Notes	Country
		n		n		
No data available						

DNEL Exposure Limit Values

Dipotassium exafluorotitanate - CAS: 16919-27-0

Worker Professional: 5.2 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects Worker Professional: 5.2 mg/m3 - Exposure: Human Inhalation - Frequency: Long

Term, systemic effects

Worker Professional: 5.2 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects



Worker Professional: 75 mg/kg bw/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects Worker Professional: 75 mg/kg bw/d - Exposure: Human Dermal - Frequency: Short

Worker Professional: 75 mg/kg bw/d - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Consumer: 37.5 mg/kg bw/d - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Consumer: 37.5 mg/kg bw/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

Dipotassium exafluorotitanate - CAS: 16919-27-0

Target: Fresh Water - Value: 0.131 mg/l

Target: Marine water - Value: 0.131 mg/l

Target: Freshwater sediments - Value: 24.45 03

Target: Marine water sediments - Value: 4.89 03

Target: Microorganisms in sewage treatments - Value: 1.5 mg/l

Target: Soil (agricultural) - Value: 19.1 mg/kg

Target: intermittent release - Value: 0.108 mg/l

8.2. Exposure controls

Precautionary measures:

Give adequate ventilation to the premises where the product is stored and/or handled. Eye protection:

Wear airtight protective goggles (EN 166).

Protection for skin:

Wear professional overalls and safety footwear (EN 14605).

Protection for hands:

Protect hands with work gloves (EN 374).

The following should be considered when choosing work glove material (EN 374):

compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

Respiratory protection:

Mask with filter "P2 or P3".

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Physical state:	Dust		
Colour:	Violet		
Odour:	Mangosteen		
Melting point/freezing	Not available		
point:			
Boiling point or initial	Not available		
boiling point and boiling			
range:			
Flammability:	Non-flammable		
Lower and upper explosion	Not available		
limit:			



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Flash point:	Not available			
Auto-ignition temperature: Not available				
Decomposition	Not available			
temperature:				
pH:	Not available			
Kinematic viscosity:	Not available			
Solubility in water:	Partially soluble			
Solubility in oil:	Solubility in oil: Not available			
Partition coefficient	Not available			
n-octanol/water (log value):				
Vapour pressure:	Not available			
Density and/or relative	0.2 - 0.5 g/cm3			
density:				
Relative vapour density:	Not available			
Particle characteristics:				
Particle size:	Not available			

9.2. Other information

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

- Stable under normal conditions
- **10.2. Chemical stability** Stable under normal conditions
- 10.3. Possibility of hazardous reactions None
- **10.4. Conditions to avoid** Stable under normal conditions.
- 10.5. Incompatible materials
- None in particular.
- **10.6. Hazardous decomposition products** None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological information of the product:

- DIA Fast Setting
- a) acute toxicity
 - Not classified
- b) skin corrosion/irritation Not classified
- c) serious eye damage/irritation
 - Not classified
 - (INTERNAL TEST Bridging Principle, OECD 437 resp. EU Method B.47, GLP, in vitro, study report 2014).
- d) respiratory or skin sensitisation Not classified
- e) germ cell mutagenicity

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Not classified	
f) carcinogenicity Not classified	
g) reproductive toxicity Not classified	
h) STOT-single exposure Not classified	
i) STOT-repeated exposure The product is classified: STOT RE 2 H373 j) aspiration hazard Not classified	
Toxicological information of the main substances found in the product: Cristobalite - CAS: 14464-46-1	
i) STOT-repeated exposure: Route: Inhalation - Notes: Silicosis, pulmonary fibrosis; Target organ: lungs (MSDS supplier).	s - Source:
Dipotassium exafluorotitanate - CAS: 16919-27-0	
a) acute toxicity	
ATE - Oral 324 mg/kg bw Test: LD50 - Route: Oral - Species: Rat 324 mg/kg - Source: (OECD 401, I dossier).	ECHA
 b) skin corrosion/irritation: Species: Rabbit - Based on available data, the classification criteria are not Source: (OECD 404, MSDS supplier). 	t met -
c) serious eye damage/irritation:	
Species: Rabbit - Eye Corrosive - Source: (OECD 405, MSDS supplier). d) respiratory or skin sensitisation:	
Test: Skin Sensitization - Species: Guinea pig - Based on available data, th classification criteria are not met - Source: (OECD 406, MSDS supplier). e) germ cell mutagenicity:	ıe
Test: In vitro - Species: Salmonella Typhimurium - Negative - Source: (OE) MSDS supplier).	CD 471,
Test: In vitro - Positive - Source: (OECD 487, MSDS supplier). Test: In vitro - Negative - Source: (OECD 476, MSDS supplier). Test: In vivo - Species: Rat - Negative - Source: (OECD 474, MSDS suppli	er).
11.2. Information on other hazards	
Endocrine disrupting properties: No endocrine disruptor substances present in concentration >= 0.1%	

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment. **DIA Fast Setting**

Not classified for environmental hazards

Based on available data, the classification criteria are not met

Dipotassium exafluorotitanate - CAS: 16919-27-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 172 mg/l - Duration h: 96h (OECD 203, Danio rerio, ECHA dossier).

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Endpoint: EC50 - Species: Daphnia 48.2 mg/l - Duration h: 48h (OECD 203, Daphnia magna, ECHA dossier). Endpoint: IC50 - Species: Algae 10.81 mg/l - Duration h: 72h (OECD 201, Pseudokirchneriella subcapitata, ECHA dossier).

Endpoint: NOEC - Species: Algae 1.31 mg/l (OECD 201, Pseudokirchneriella subcapitata, ECHA dossier).

12.2. Persistence and degradability

Cristobalite - CAS: 14464-46-1 Biodegradability: Non-readily biodegradable Dipotassium exafluorotitanate - CAS: 16919-27-0 Biodegradability: Non-readily biodegradable

12.3. Bioaccumulative potential

Cristobalite - CAS: 14464-46-1

Not bioaccumulative

12.4. Mobility in soil

Not available

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Endocrine disrupting properties No endocrine disruptor substances present in concentration >= 0.1%

12.7. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

14.1. UN number or ID number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

- Not available
- 14.3. Transport hazard class(es)
 - Not available
- 14.4. Packing group
- Not available **14.5. Environmental hazards** ADR-Enviromental Pollutant: No
 - IMDG-Marine pollutant: No
- **14.6. Special precautions for user** Not available
- 14.7. Maritime transport in bulk according to IMO instruments Not Applicable

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work) Dir. 2000/39/EC (Occupational exposure limit values) Regulation (EC) n. 1907/2006 (REACH) Regulation (EC) n. 1272/2008 (CLP) Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013 Regulation (EU) n. 2020/878



Re Re Re Re Re Re Re Re Re Restrictio (EC) 190 Re	egulation (EU) n. 286/2011 (ATP 2 CLP) egulation (EU) n. 618/2012 (ATP 3 CLP) egulation (EU) n. 487/2013 (ATP 4 CLP) egulation (EU) n. 944/2013 (ATP 5 CLP) egulation (EU) n. 605/2014 (ATP 6 CLP) egulation (EU) n. 2015/1221 (ATP 7 CLP) egulation (EU) n. 2016/918 (ATP 8 CLP) egulation (EU) n. 2016/1179 (ATP 9 CLP) egulation (EU) n. 2016/1179 (ATP 9 CLP) egulation (EU) n. 2017/776 (ATP 10 CLP) egulation (EU) n. 2018/1480 (ATP 13 CLP) egulation (EU) n. 2018/1480 (ATP 13 CLP) egulation (EU) n. 2019/521 (ATP 12 CLP) egulation (EU) n. 2020/217 (ATP 14 CLP) egulation (EU) n. 2020/1182 (ATP 15 CLP) egulation (EU) n. 2021/643 (ATP 16 CLP) ons related to the product or the substances contained according to Annex XVII Regulation 7/2006 (REACH) and subsequent modifications: estrictions related to the product: Restriction 3 Restriction 40 estrictions related to the substances contained: Restriction 75
Provision	ns related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1 None

WGK Classification (Water hazard class - Verwaltungsvorschrift wassergefährdende Stoffe)

Lagerklasse according to TRGS 510: LGK 10: Combustible liquids

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012: None.

California Proposition 65

Substance(s) listed under California Proposition 65: Cristobalite - Listed as carcinogen.

WARNING: This product can expose you to silica, crystalline (airborne particles of respirable size) and phenolphthalein, which are known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture. Substances for which a Chemical Safety Assessment has been carried out: Dipotassium exafluorotitanate

SECTION 16: Other information

Hazard class and hazard category	Code	Description
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Eye Dam. 1	3.3/1	Serious eye damage, Category 1



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STOT RE 1	3.9/1	Specific target organ toxicity - repeated
		exposure, Category 1
STOT RE 2	3.9/2	Specific target organ toxicity - repeated
		exposure, Category 2

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
STOT RE 2, H373	Calculation method

This document was prepared by a competent person who has received appropriate training. Main bibliographic sources:

ECHA – European Chemical Agency

GESTIS - Information system on hazardous substances of the German Social Accident Insurance

IARC – International Agency for Research on Cancer

IPCS INCHEM – International Programme on Chemical Safety

ISS - Istituto Superiore di Sanità

PubChem - open chemistry database at the National Institutes of Health (NIH)

A safety data sheet is not required for this product under article 31 of Regulation 1907/2006/EC. This safety data sheet has been created on a voluntary basis.

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS: GefStoffVO:	European Inventory of Existing Commercial Chemical Substances. Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods

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	by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.