

according to 29 CFR 1910.1200(g)

A03623-G2F4

Revision date: 06.06.2019

Page 1 of 8

1. Identification**Product identifier**

A03623-G2F4

Further trade names

Substance name: Refractory Ceramic Fibres (Alumino-silicat wools)

CAS No: 142844-00-6

Recommended use of the chemical and restrictions on use**Use of the substance/mixture**

Reserved for industrial and professional use.

Manufacture (Mixtures)

Barrier (Sealant) (heat insulating)

Uses advised against

Do not use for sputtering or spraying.

Details of the supplier of the safety data sheet

Company name:	Sirona Dental Systems GmbH
Street:	Fabrikstraße 31
Place:	D-64625 Bensheim
Telephone:	+49 (0)625116-0
e-mail (Contact person):	http://srvcontact.sirona.com/webformulars/EntryPage
Internet:	www.dentsplysirona.com

Emergency phone number: GBK (24 h) +49 (0)6132-84463**2. Hazard(s) identification****Classification of the chemical****29 CFR Part 1910.1200**

Carcinogenicity: Carc. 1B

Label elements**29 CFR Part 1910.1200****Signal word:** Danger**Pictograms:****Hazard statements**

May cause cancer by inhalation

Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves/protective clothing/eye protection/face protection.

If exposed or concerned: Get medical advice/attention.

Store locked up.

Dispose of waste according to applicable legislation.

Special labelling of certain mixtures

Restricted to professional users.

Hazards not otherwise classified

IF exposed: Irritating to eyes, respiratory system and skin. (reversible.)

Safety Data Sheet

according to 29 CFR 1910.1200(g)

A03623-G2F4

Revision date: 06.06.2019

Page 2 of 8

3. Composition/information on ingredients**Substances****Chemical characterization**

Product/Substance is inorganic.

Hazardous components

CAS No	Components	Quantity
142844-00-6	Refractory Ceramic Fibres (Alumino-silicat wools)	100 %

4. First-aid measures**Description of first aid measures****After inhalation**

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Immediately remove any contaminated clothing, shoes or stockings. In case of skin reactions, consult a physician.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not subject to friction. Consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Get medical advice/attention.

Most important symptoms and effects, both acute and delayed

IF exposed: Irritating to eyes, respiratory system and skin. (reversible.)

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures**Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

Specific hazards arising from the chemical

The product itself does not burn.

Special protective equipment and precautions for fire-fighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Suppress gases/vapours/mists with water spray jet. Knock down dust with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures**Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

Environmental precautions

Knock down dust with water spray jet. Do not allow to enter into surface water or drains. Observe in addition any national regulations!

Methods and material for containment and cleaning up

Use approved industrial vacuum cleaner for removal. High efficiency particulate air filter (HEPA filter) Wet clean

Safety Data Sheet

according to 29 CFR 1910.1200(g)

A03623-G2F4

Revision date: 06.06.2019

Page 3 of 8

or vacuum up solids. Do not use a brush or compressed air for cleaning surfaces or clothing. Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

Clean contaminated articles and floor according to the environmental legislation.

Reference to other sections

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Obtain special instructions before use. If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep/Store only in original container. Keep container dry. Keep container tightly closed. Protect containers against damage. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations.

Packaging materials: plastic, paper and cardboard

Hints on joint storage

No special measures are necessary.

8. Exposure controls/personal protection

Control parameters

Exposure limits

CAS No.	Substance	ppm	mg/m ³	f/cc	Category	Origin
-	Fibrous glass dust (total)	-	5		TWA (8 h)	REL
-	Fibrous glass dust			3	TWA (8 h)	REL
-	Particulates not Otherwise regulated (PNOR) Respirable fraction	529.5 mp/m ³	5		TWA (8 h)	PEL
-	Particulates not Otherwise regulated (PNOR) Total dust	1765 mp/m ³	15		TWA (8 h)	PEL
-	Synthetic vitreous fibers: Refractory ceramic fibers (respirable fibers)	-	-	0.2	TWA (8 h)	ACGIH-2018

Exposure controls



Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations. Technical measures and the application of suitable work processes have priority over personal protection equipment.

according to 29 CFR 1910.1200(g)

A03623-G2F4

Revision date: 06.06.2019

Page 4 of 8

Protective and hygiene measures

Take off contaminated clothing and wash it before reuse. Street clothing should be stored separately from work clothing. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Do not breathe dust.

Use approved industrial vacuum cleaner for removal. High efficiency particulate air filter (HEPA filter) Do not use a brush or compressed air for cleaning surfaces or clothing.

Eye/face protection

Wear eye/face protection. Eye glasses with side protection

Hand protection

Wear suitable gloves.

Suitable material: Chromate-free leather

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.
Filtering device (full mask or mouthpiece) with filter: FFP2

IF exposed: short-term (< 1 hour(s)) Filter material/medium FFP3

Environmental exposure controls

Avoid release to the environment.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	solid (Fibers)	
Color:	white	
Odor:	odorless	
pH-Value:		not determined

Changes in the physical state

Melting point/freezing point:	> 1650 °C
Initial boiling point and boiling range:	not determined
crystallisation point::	> 900 °C
Flash point:	not applicable

Flammability

Solid:	not determined
Gas:	not applicable

Explosive properties

The product is not: Explosive.

Lower explosion limits:	not determined
Upper explosion limits:	not determined
Ignition temperature:	not determined

according to 29 CFR 1910.1200(g)

A03623-G2F4

Revision date: 06.06.2019

Page 5 of 8

Auto-ignition temperature

Solid: not determined
Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties

Not oxidising.

Vapor pressure: not determined

Density: > 2,30 - < 2,5 g/cm³

Water solubility: insoluble in: Water

Solubility in other solvents

not determined

Partition coefficient: not determined

Viscosity / dynamic: not determined

Viscosity / kinematic: not determined

Vapor density: not determined

Evaporation rate: not determined

Other information

Odor threshold: not applicable

Particle size (µm): 1,4 - 3 (Fibers)

10. Stability and reactivity**Reactivity**

No hazardous reaction when handled and stored according to provisions.

Chemical stability

Stability: Stable

Product/Substance is inorganic.

The product is stable under storage at normal ambient temperatures.

Crystallization: Temperature: > 900 °C

Possibility of hazardous reactions

Hazardous reactions: Will not occur

No known hazardous reactions.

Conditions to avoid

Avoid dust formation.

Incompatible materials

No information available.

Hazardous decomposition products

No known hazardous decomposition products.

11. Toxicological information**Information on toxicological effects****Route(s) of Entry**

inhalative, dermal, Eye contact

Toxicokinetics, metabolism and distribution

Half-life time: 60 day(s) (Fibers > 20 µm)

Species: Rat

Test duration: 3 week(s)

according to 29 CFR 1910.1200(g)

A03623-G2F4

Revision date: 06.06.2019

Page 6 of 8

Acute toxicity

Based on available data, the classification criteria are not met.

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitizing effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

May cause cancer (Refractory Ceramic Fibres (Alumino-silicat wools))

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - repeated exposure

Based on available data, the classification criteria are not met.

Carcinogenicity (OSHA):

Not listed.

Carcinogenicity (IARC):

Refractory ceramic fibres is listed in group 2B.

Carcinogenicity (NTP):

Not listed.

Aspiration hazard

Based on available data, the classification criteria are not met.

12. Ecological information**Ecotoxicity**

The product is not: Ecotoxic.

According to experiences this product is inert and not degradable.

Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

Due to its low solubility in water the product is almost completely mechanically separated in biological sewage plants.

Elimination from water is possible through precipitation or flocculation.

Bioaccumulative potential

The product has not been tested.

Mobility in soil

The product has not been tested.

Other adverse effects

No information available.

Further information

Avoid release to the environment.

13. Disposal considerations**Waste treatment methods****Advice on disposal**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Contaminated packaging

Dispose of waste according to applicable legislation.

14. Transport information**US DOT 49 CFR 172.101****Proper shipping name:**

No dangerous good in sense of this transport regulation.

Safety Data Sheet

according to 29 CFR 1910.1200(g)

A03623-G2F4

Revision date: 06.06.2019

Page 7 of 8

Marine transport (IMDG)

UN number:	No dangerous good in sense of this transport regulation.
UN proper shipping name:	No dangerous good in sense of this transport regulation.
Transport hazard class(es):	No dangerous good in sense of this transport regulation.
Packing group:	No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

UN number:	No dangerous good in sense of this transport regulation.
UN proper shipping name:	No dangerous good in sense of this transport regulation.
Transport hazard class(es):	No dangerous good in sense of this transport regulation.
Packing group:	No dangerous good in sense of this transport regulation.

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

Special precautions for user

No information available.

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

not applicable

15. Regulatory information

U.S. Regulations

National regulatory information

SARA Section 304 CERCLA:

Fine mineral fibers (-): Reportable quantity = &

SARA Section 311/312 Hazards:

Fine mineral fibers (142844-00-6): Delayed (chronic) health hazard

Clean Air Act Section 112(b):

Fine mineral fibers (-)

State Regulations

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other information

Hazardous Materials Information Label (HMIS)

Health: *4

Flammability: 0

Physical Hazard: 0

NFPA Hazard Ratings

Health: 4

Flammability: 0

Reactivity: 0

Unique Hazard:

Revision date: 06.06.2019

Revision No: 1,0

Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygienists

CFR: Code of Federal Regulations

DOT: Department of Transportation



Safety Data Sheet

according to 29 CFR 1910.1200(g)

A03623-G2F4

Revision date: 06.06.2019

Page 8 of 8

ICAO: International Civil Aviation Organization
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IARC: International Agency for Research on Cancer
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CAS: Chemical Abstracts Service
NFPA: National Fire Protection Association
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PEL: permissible exposure limit
REL: recommended exposure limit
SARA: Superfund Amendments and Reauthorization Act
STEL: Short-term exposure limit
TSCA: Toxic Substances Control Act
TWA: time-weighted average
TI: Technical Instructions
DGR: Dangerous Goods Regulations
UN: United Nations
ATE: Acute toxicity estimate
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
VOC: Volatile Organic Compounds

Other data

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.