

Revision date: 13.12.2022

**REF****FINOBLAST Bead Blasting Agent**  
41043 / 41043P / 41044 / 41044P / 41045 / 41045P /  
41046 / 41047 / 41048

Page 1 of 9

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

FINOBLAST Bead Blasting Agent

**REF**

41043 / 41043P / 41044 / 41044P / 41045 / 41045P / 41046 / 41047 / 41048

CAS No: 7440-23-5  
Index No: 011-001-00-0  
EC No: 231-132-9

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Bead Blasting Agent

**Uses advised against**

No further data.

**1.3. Details of the supplier of the safety data sheet**

Company name:	FINO GmbH	
Street:	Mangelsfeld 18	
Place:	D-97708 Bad Bocklet	
Telephone:	+49-97 08-90 94 20	Telefax: +49-97 08-90 94 21
e-mail:	info@fino.com	Internet: www.fino.com
Contact person:	Joachim Mahlmeister	Telephone: +49-97 08-90 94 20
e-mail:	info@fino.com	
Responsible Department:	This number can only be reached during our office hours, Monday to Friday from 8 a.m. to 5 p.m.	

**1.4. Emergency telephone number:**

+49-89-1 92 40  
POISON CENTER München  
24 hour(s) 7 day(s)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

**2.2. Label elements****GB CLP Regulation****Special labelling of certain mixtures**

EUH210 Safety data sheet available on request.

**Additional advice on labelling**

According to EC directives or the corresponding national regulations the product does not have to be labelled.

**2.3. Other hazards**

Eyes and respiratory tract may be irritated if the maximum concentration of exposure is exceeded.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

Revision date: 13.12.2022

REF

**FINOBLAST Bead Blasting Agent**

41043 / 41043P / 41044 / 41044P / 41045 / 41045P /  
41046 / 41047 / 41048

Page 2 of 9

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
7440-21-3	Silicon			65,0 %
	231-130-8			
	Flam. Sol. 2, Eye Irrit. 2; H228 H319			
7440-23-5	sodium			14,0 %
	231-132-9	011-001-00-0		
	Water-react. 1, Skin Corr. 1B; H260 H314 EUH014			
7440-70-2	calcium			8,0 %
	231-179-5	020-001-00-X		
	Water-react. 2; H261			
7439-89-6	Iron			0,15 %
	231-096-4			
	Flam. Sol. 2, Self-heat. 1; H228 H251			

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
7440-21-3	231-130-8	Silicon	65,0 %
	oral: LD50 = 3160 mg/kg		
7439-89-6	231-096-4	Iron	0,15 %
	oral: LD50 = 30000 mg/kg		

**Further Information**

none

**SECTION 4: First aid measures**
**4.1. Description of first aid measures**
**General information**

Get medical advice/attention if you feel unwell.

**After inhalation**

Inhalation of dust may cause irritation of the respiratory system.

Remove casualty to fresh air and keep warm and at rest.

**After contact with skin**

Wash with plenty of soap and water.

**After contact with eyes**

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Remove contact lenses, if present and easy to do. Continue rinsing.

**After ingestion**

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

**4.2. Most important symptoms and effects, both acute and delayed**

Irritating to skin.

Lung irritation

Cough

**4.3. Indication of any immediate medical attention and special treatment needed**

Revision date: 13.12.2022

**REF****FINOBLAST Bead Blasting Agent**  
41043 / 41043P / 41044 / 41044P / 41045 / 41045P /  
41046 / 41047 / 41048

Page 3 of 9

Treat symptomatically.  
First Aid.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

No special measures are necessary.

**Unsuitable extinguishing media**

Full water jet

**5.2. Special hazards arising from the substance or mixture**

No special measures are necessary.

**5.3. Advice for firefighters**

Use suitable breathing apparatus.

**Additional information**

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

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Safe handling: see section 7

Personal protection equipment: see section 8

**For non-emergency personnel**

Emergency procedures

Remove victim out of the danger area. Remove affected person from the danger area and lay down.

Remove persons to safety. The danger areas must be delimited and identified using relevant warning and safety signs.

**For emergency responders**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Use personal protection equipment.

**6.2. 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!

**6.3. Methods and material for containment and cleaning up****For containment**

Cover drains.

Use only antistatically equipped (spark-free) tools. Personal protection equipment

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Contain leaks or spills within cabinets with removable trays.

**For cleaning up**

Collect in closed and suitable containers for disposal.

Ventilate affected area. Wash contaminated clothing before reuse.

**Other information**

Avoid dust formation.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Revision date: 13.12.2022

REF

**FINOBLAST Bead Blasting Agent**  
41043 / 41043P / 41044 / 41044P / 41045 / 41045P /  
41046 / 41047 / 41048

Page 4 of 9

**Advice on safe handling**

When using do not eat, drink or smoke.

Personal protection equipment: see section 8

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**Advice on general occupational hygiene**

The usual precautionary measures are to be adhered to when handling chemicals.

Do not eat, drink or smoke when using this product.

Wash hands before breaks and after work.

Keep away from food, drink and animal feedingstuffs.

**7.2. Conditions for safe storage, including any incompatibilities**
**Requirements for storage rooms and vessels**

Keep container tightly closed and dry.

Avoid: Dust deposits

**Hints on joint storage**

No special measures are necessary.

**Further information on storage conditions**

No special requirements measures.

Storage class

Betriebssicherheitsverordnung (BetrSichV) ---

**7.3. Specific end use(s)**

Bead Blasting Agent

**SECTION 8: Exposure controls/personal protection**
**8.1. Control parameters**
**Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
7429-90-5	Aluminium metal, respirable dust	-	4		TWA (8 h)	WEL
7440-21-3	Silicon, respirable dust	-	4		TWA (8 h)	WEL

**8.2. Exposure controls**

**Appropriate engineering controls**

In case of insufficient ventilation, wear suitable respiratory equipment.

**Individual protection measures, such as personal protective equipment**
**Eye/face protection**

Protective eyewear when dust develops.

**Hand protection**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The precise time of rupture can be found out from the manufacturer of the protective gloves and must be

Revision date: 13.12.2022

**REF****FINOBLAST Bead Blasting Agent**  
41043 / 41043P / 41044 / 41044P / 41045 / 41045P /  
41046 / 41047 / 41048

Page 5 of 9

observed.

**Skin protection**

Common occupational clothing.

**Respiratory protection**

Wear dust protection mask only if dust forms.

In case of insufficient ventilation, wear suitable respiratory equipment.

**Environmental exposure controls**

No further data, see item 7.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	solid
Colour:	white
Odour:	odourless

**Changes in the physical state**

Melting point/freezing point:	1400 °C
Boiling point or initial boiling point and boiling range:	not applicable
Softening point:	not applicable
Flash point:	not applicable

**Flammability**

Solid/liquid:	not applicable
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**Explosive properties**

Product is not explosive.

Lower explosion limits:	---
Upper explosion limits:	---
Auto-ignition temperature:	not applicable

**Self-ignition temperature**

Solid:	Product is not selfigniting.
pH-Value (at 20 °C):	not applicable

Water solubility:	Due to the consistency and the insolubility of the product water a bioavailability is unlikely.
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**Solubility in other solvents**

No information.

Vapour pressure:	---
Density:	---
Bulk density:	1500 kg/m <sup>3</sup>
Relative vapour density:	not applicable

**9.2. Other information****Other safety characteristics**

Evaporation rate:	not applicable
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**Further Information****SECTION 10: Stability and reactivity****10.1. Reactivity**

No data available

Revision date: 13.12.2022

REF

**FINOBLAST Bead Blasting Agent**  
41043 / 41043P / 41044 / 41044P / 41045 / 41045P /  
41046 / 41047 / 41048

Page 6 of 9

**10.2. Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.

Safe handling: see section 7

**10.3. Possibility of hazardous reactions**

No risks worthy of mention.

**10.4. Conditions to avoid**

No special measures are necessary.

**10.5. Incompatible materials**

Not known.

**10.6. Hazardous decomposition products**

No dangerous decomposition products known.

**Further information**

none

**SECTION 11: Toxicological information**
**11.1. Information on hazard classes as defined in GB CLP Regulation**
**Acute toxicity**

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

No toxicology known.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
7440-21-3	Silicon				
	oral	LD50 mg/kg	3160	Ratte:	
7439-89-6	Iron				
	oral	LD50 mg/kg	30000	Rat	GESTIS

**Irritation and corrosivity**

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

Following skin contact Liquid on inert carrier material

Irritant effect on the eye: Dust in concentrations above the maximum recommended values.

On respiratory organs: Can cause irritation of eyes and respiratory tract.

**Sensitising effects**

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

No sensitizing effect known.

**Carcinogenic/mutagenic/toxic effects for reproduction**

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

No additional indications for carcinogenic or mutagenic impacts and effects toxic for reproduction.

**STOT-single exposure**

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

**STOT-repeated exposure**

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

Liquid of 1-propanol with various additives.

**Aspiration hazard**

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

**Specific effects in experiment on an animal**

Not required.

Revision date: 13.12.2022

**REF****FINOBLAST Bead Blasting Agent**  
41043 / 41043P / 41044 / 41044P / 41045 / 41045P /  
41046 / 41047 / 41048

Page 7 of 9

**Additional information on tests**

none

**Practical experience**

No special references.

**11.2. Information on other hazards****Other information**

No special precautionary measures.

**SECTION 12: Ecological information****12.1. Toxicity**

Classification according to Regulation (EC) No 1272/2008 [CLP]

Toxic properties of the preparation are not known.

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

No indication of bioaccumulation potential.

**12.4. Mobility in soil**

Not environmental impermanent.

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**

No effects known.

**Further information**

No special environmental measures are necessary.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation.

**List of Wastes Code - residues/unused products**

101111 WASTES FROM THERMAL PROCESSES; wastes from manufacture of glass and glass products; waste glass in small particles and glass powder containing heavy metals (for example from cathode ray tubes); hazardous waste

**List of Wastes Code - used product**

101111 WASTES FROM THERMAL PROCESSES; wastes from manufacture of glass and glass products; waste glass in small particles and glass powder containing heavy metals (for example from cathode ray tubes); hazardous waste

**List of Wastes Code - contaminated packaging**

101111 WASTES FROM THERMAL PROCESSES; wastes from manufacture of glass and glass products; waste glass in small particles and glass powder containing heavy metals (for example from cathode ray tubes); hazardous waste

**Contaminated packaging**

Send to a hazardous waste incinerator facility under observation of official regulations.

**SECTION 14: Transport information**

Revision date: 13.12.2022

**REF****FINOBLAST Bead Blasting Agent**  
41043 / 41043P / 41044 / 41044P / 41045 / 41045P /  
41046 / 41047 / 41048

Page 8 of 9

**Land transport (ADR/RID)**

**14.1. UN number or ID number:** UN 0000  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**Other applicable information (land transport)**  
Not restricted

**Inland waterways transport (ADN)**

**14.1. UN number or ID number:** UN 0000  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**Other applicable information (inland waterways transport)**  
Not restricted

**Marine transport (IMDG)**

**14.1. UN number or ID number:** UN 0000  
**14.2. UN proper shipping name:** Not a hazardous material with respect to transportation regulations.  
**Other applicable information (marine transport)**  
Not restricted

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number or ID number:** UN 0000  
**14.2. UN proper shipping name:** Not a hazardous material with respect to transportation regulations.  
**Other applicable information (air transport)**  
Not restricted

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

No special measures are necessary.

**14.7. Maritime transport in bulk according to IMO instruments**

No special precautionary measures.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 40, Entry 65, Entry 75

2004/42/EC (VOC): none

**Additional information**

No further data.

**National regulatory information**

Water hazard class (D): - - non-hazardous to water

**Additional information**

none

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information****Changes**

\* Data changed compared with the previous version.

**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)



Revision date: 13.12.2022

**REF**
**FINOBLAST Bead Blasting Agent**  
41043 / 41043P / 41044 / 41044P / 41045 / 41045P /  
41046 / 41047 / 41048

Page 9 of 9

BGW (DE)  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 CLP: Classification, Labelling and Packaging  
 CMR: Carcinogenic, Mutagenic or toxic for Reproduction  
 DNEL: Derived No-Effect Level (REACH)  
 List of proposed waste codes/waste designations in accordance with EWC  
 "IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)"  
 IBC-Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk.  
 "ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)"  
 IMDG: International Maritime Code for Dangerous Goods  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
 PBT: Persistent, Bioaccumulative and Toxic  
 PNEC: Predicted No-Effect Concentration (REACH)  
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
 VOC: Volatile Organic Compounds (USA, EU)  
 vPvB: very Persistent and very Bioaccumulative  
 AGW (DE)

**Relevant H and EUH statements (number and full text)**

H228	Flammable solid.
H251	Self-heating: may catch fire.
H260	In contact with water releases flammable gases which may ignite spontaneously.
H261	In contact with water releases flammable gases.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
EUH014	Reacts violently with water.

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

**Identified uses**

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	Auxiliary for dental technology	PW	20	0	0	4	0	94	100

LCS: Life cycle stages

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use

PROC: Process categories

AC: Article categories

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*