

Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)

Rendered: 3.2013

Version: 1.0 / EN

Revision date: ---

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1 Product identifier:

Substance name:

WH 1500 Feuerfestkitt Part A

Other means of identification

Refractory cement, powder

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

Relevant identified uses:

Refractory cement

1.3 Details of the supplier of the safety data sheet:

Supplier
Co. KG

W. Haldenwanger Technische Keramik GmbH &

Street
Postal code

Morgan Technical Ceramics
Teplitzer Str. 27
D-84478 Waldkraiburg

Information contact

Telephone

+49 (0) 8638 6004-214
(Mo through Fr. 7:30 till 12:00 hrs)

E-Mail (competent person)

sds@Haldenwanger.de

Emergency Telephone No

+49 (0) 8638 6004-0
(Mo through Fr. 7:30 till 12:00 hrs)

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture:

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

Mixture is not classified, contains less than 10% classified substances

2.1.2. Classification according to 67/548/EEC or 1999/45/EC

Mixture is not classified, contains less than 10% classified substances

2.3 Other hazards

Not classified in PBT or vPvB

Mixture contains crystalline SiO₂ (Quartz)

Respirable quartz fine dust, if inhaled over a long period, may be a health hazard for the lungs (silicosis)

1.0% to < 10% SiO₂

STOT RE 2 H 373

>10% SiO₂

STOT RE 1 H 372

- 1 -



Bekannter Versender
DE/KC/01697-01/0618

Morgan Advanced Materials Haldenwanger GmbH ist international zertifiziert nach
ISO 9001:2008 | ISO 14001:2004 | BS OHSAS 18001:2007 | ISO 50001:2011



beat the heat...
Haldenwanger Ceramics

(Alsint - Silimantin - Pythagoras - Halso)

www.morganadvancedmaterials.com www.haldenwanger.de

Konto:

Commerzbank AG Waldkraiburg
BLZ 71142041 Konto 630 82 82 00
IBAN DE 33 7114 2041 0630 8282 00
S.W.I.F.T-BIC: COBADEFF712

Rechtsform:

GmbH
Sitz: Waldkraiburg
Registriergericht:
AG Traunstein HRB 23679

Steuerliche Angaben:


Ust-ID-Nr.: DE 136655266


Geschäftsführer:

Joachim Mayer
Keith Dodd

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical name	CAS-Nr.	EG-Nr.	Registration-Nr. Index-Nr.	Classification Regulation (EC) 1272/2008	Content
Na ₂ SiF ₆ Na Hexafluorosilicate	16893-85-9	240-934-8	---	 Warning H 302/312/332	<5%
Aluminum oxide	1344-28-1	215-691-6	---	Not classified	>75%
Silicon dioxide (Quartz)	14808-60-7	238-878-4	---	Not classified	>20%

Chemical name	CAS-Nr.	EG-Nr.	Registration-Nr. Index-Nr.	Classification Directive (EC) 67/548/EEC or 1999/45/EC	Content
Na ₂ SiF ₆ Sodium Hexafluorosilicate	16893-85-9	240-934-8	---	 Hazardous R 20/21/22	<5%
Aluminum oxide	1344-28-1	215-691-6	---	Not classified	>75%
Silicon dioxide (Quartz)	14808-60-7	238-878-4	---	Not classified	>20%

Additional information: Full text of R-, H- and EUH-phrases: see section 16.

4. First aid measures

4.1 Description of first aid measures

- 4.1.1 General information: Avoid dust formation, see paragraph 2.3
- 4.1.1 Following inhalation: Remove victim to fresh air
- 4.1.4 Following skin contact: Remove dusty cloths, wash with soap and water
- 4.1.2 Following eye contact: Immediately flush with plenty of water, remove contact lenses
- 4.1.5 Following ingestion: Flush mouth with water (do not swallow), drink subsequently water

If discomfort persists obtain medical attention

4.2 Most important symptoms and effects, both acute and delayed:

No information available

4.3 Indication of any immediate medical attention and special treatment needed:

No information available

5. FIRE-FIGHTING MEASURES

- 5.1 Extinguishing media: No restrictions

5.2 Special hazards arising from the substance or mixture
 During fire, hydrogen fluoride or silicon tetrafluoride will be generated

5.3 Advice for fire-fighters
 Product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings. Use self-containing breathing apparatus. Avoid skin contact by wearing protective clothes and keep safety distance. Hose down fumes. Collect contaminated fire extinguishing water separately. This must not be discharged into waters or drains.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel
 Protective equipment: Safety goggles (EN 166)
 Safety gloves (EN 388)
 Safety mask FFP 2 (EN 149)

6.2 Environmental precautions: Keep out of soil, waters, and drains

6.3 Methods and material for containment and cleaning up:
 Mechanical cleaning; avoid dust formation.
 Collect debris in sealable container.
 Disposal: see paragraph 11

6.4 Reference to other sections Precautions, see chapter 7 and 8

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures:
 Advice on general occupational hygiene Do not eat, drink nor smoke in working area.
 Wash hands with soap after working.
 Remove dust mask in workplace and keep contaminated clothes separate from clean clothes.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions: Store in a dry place, keep container closed
 Storage class: 10-13

7.3 Specific end uses: Refractory cement

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational exposure limits:

Name	STD	TWA (8 hrs)
Inert dust	OEL respirable	4.0 mg/m ³
Quartz	OEL respirable	0.1 mg/m ³
Cristobalite, Tridimite	OEL respirable	0.15 mg/m ³
Na ₂ SiF ₆	OEL respirable	2.5 mg/m ³
Notice: may be absorbed through skin		

OEL = Occupational Exposure Limit
TWA = Time Weighted Average

8.2 Exposure controls - Personal protective equipment:

Eye protection:	Safety glasses with side shields
goggles	In case of high dust concentration: wear tight
Hand protection:	Safety gloves (clean gloves before removal)
	Wash hands with soap at breaks and work end
Skin protection:	Safety clothes
Respiratory protection:	Avoid dust formation or accumulation.
	In case of dust: Ventilate work place or use dust collector, wear dust filter mask FFP2

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Important health, safety and environmental information

9.1.1 Appearance			
Physical state:	Powder	Colour: White	Odour: None
9.1.2 Safety relevant basic data			
pH at 20 C:		3.5 - 4.5	(10g in 100 ml water)
Density (g/cm ³) at 20 C		ca. 3.3	(EN993-1)
Solubility at 20 C		<1%	

9.2 Physical hazards:	Sodium hexafluorosilicate decomposes at 800 C, releasing hydrogen fluoride and/or silicon tetrafluoride
-----------------------	---

10. STABILITY AND REACTIVITY

10.1 Reactivity	During thermal treatment, hydrogen fluoride and/or silicon tetrafluoride will be released
10.2 Chemical stability storage	No chemical reactions will occur during proper and handling
10.3 Possibility of hazardous reactions formed.	In contact with acids, HF and/or SiF ₄ may be
10.4 Conditions to avoid:	Contact to acids
10.5 Incompatible materials:	
10.6 Hazardous decomposition products	Hydrogen fluoride and silicon tetrafluoride

11 TOXICOLOGICAL INFORMATION

11.1 Toxicokinetics, metabolism and distribution

Sodium hexafluorosilicate	LD50 (oral, rat)	125 mg/kg
	Agricultural Research Service, USDA Information Memorandum. Vol. 20, Pg. 21, 1966.	

LC (fish, 96 h)	Minimal value	49 mg/l
	Maximum value	160 mg/l
	Median value	104 mg/l
	No. of studies	2

Dawson, G.W., A.L. Jennings, D. Drozdowski, and E. Rider 1977.
The Acute Toxicity of 47 Industrial Chemicals to Fresh and Saltwater Fishes.
J.Hazard.Mater. 1(4):303-318 (OECDG Data File)

12. Ecological information

12.1	Toxicity	
12.2	Persistence and degradability	No data available
12.3	Bioaccumulative potential	
12.4	Mobility in soil	
12.5	Results of PBT and vPvB assessment	This product does not contain any PBT or vPvB Substances
12.6	Other adverse effects:	No data available
12.7	Additional information:	None

13. DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods	Respect local regulation
	Waste codes / waste designations according to EWC / AVV:	16 03 03 inorganic wastes containing dangerous substances
13.2	Additional Information	Must not be discharged into soil, waters or drains

14. TRANSPORT INFORMATION

14.1	Land transport (ADR/RID/GGVSE):	
14.2	Sea transport (IMDG-Code/GGVSee):	
14.3	Air transport (ICAO-IATA/DGR):	
14.4	Special precautions for user:	Not classified as dangerous for carriage
14.4	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	
14.5	Additional Information	

15. REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
15.1.1	EU regulations:	
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline):	Not classified
	Information according to Regulation (EC) No 1272/2008 [CLP/GHS]	Not classified
15.2	Chemical Safety Assessment:	Not carried out

16. OTHER INFORMATION

16.1 Indication of changes

This MSDS was completely reviewed according to Regulation (EC) No 1907/2006)

16.2 Key literature references and sources for data

MSDS of raw materials, IFA – GESTIS database

16.3 Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

Not classified

16.4 Relevant H- and EUH-phrases (number and full text):

H 302 Harmful if swallowed.

H 312 Harmful in contact with skin.

H 332 Harmful if inhaled.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed

P 261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P 280 Wear protective gloves/protective clothing/eye protection/face protection.

P 301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P 311 Call a POISON CENTER or doctor/physician.

16.5 Other information

Regulation (EG) 1272/2008

Respirable Quartz fine dust

R 20 < 10% SiO₂ Harmful by inhalation

R 48 ≥ 10% SiO₂ Danger of serious damage to health by prolonged exposure

Training advice

It has to be ensured, that the employees observe measures against dust formation and wear adequate personal protection.