SAFETY DATA SHEET



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

1.1. Product identifier

Trade name or HWI SHIELD TR

designation of the mixture

Registration number

Synonyms WM-7674 TROWEL MIX

Brand Code 204C

Issue date 16-April-2019

Version number 01

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

Identified uses For Industrial Use Only

Uses advised against Users should be informed of the potential presence of respirable dust and respirable crystalline silica

as well as their potential hazards. Appropriate training in the proper use and handling of this

material should be provided as required under applicable regulations.

1.3. Details of the supplier of the safety data sheet

Supplier

HarbisonWalker International Company name

Address 1305 Cherrington Parkway, Suite 100

Moon Township, PA 15108, USA

United States

Division

Telephone General Phone: 412-375-6600

> CHEMTREC EMERGENCY 1-800-424-9300

US/CAN ONLY

sds@thinkHWI.com e-mail

HWI USA Contact person 1.4. Emergency telephone Not available.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Hazard summary Prolonged exposure may cause chronic effects. Not classified for health hazards. However,

occupational exposure to the mixture or substance(s) may cause adverse health effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms None. Signal word None.

Hazard statements The mixture does not meet the criteria for classification.

Precautionary statements

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Store away from incompatible materials. Storage

Disposal Dispose of waste and residues in accordance with local authority requirements.

Supplemental label

information

None

2.3. Other hazards Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Quartz (SiO2)	10 - 25	14808-60-7 238-878-4	-	-	#
Classification: -					
Other components below reportable	80 - 100				

List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance. vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Crystalline silica may be present at low concentrations; most of this is encapsulated in the coarse aggregate or as part of the clays or sands.

SECTION 4: First aid measures

General information Not available.

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

4.2. Most important Coughing.

symptoms and effects, both

acute and delayed

4.3. Indication of any immediate medical attention

and special treatment

needed

Treat symptomatically.

SECTION 5: Firefighting measures

General fire hazards Not available.

5.1. Extinguishing media

Suitable extinguishing

media

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media

Not available.

5.2. Special hazards arising

from the substance or

mixture

Not available.

5.3. Advice for firefighters

Special protective equipment for firefighters

Not available.

Special fire fighting

Not available.

procedures

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

For emergency

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

responders 6.2. Environmental

personnel

Avoid discharge into drains, water courses or onto the ground.

precautions

6.3. Methods and material for containment and cleaning up

204C Version #: 01 Issue date: 16-April-2019

Sweep up or vacuum up spillage and collect in suitable container for disposal. For waste disposal, see section 13 of the SDS.

2 / 14

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places

where dust is formed. Do not breathe dust. Avoid prolonged exposure.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the

SDS).

Not available. 7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Components	Туре	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	MAK	5 mg/m3	Respirable fume.
		5 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
	STEL	20 mg/m3	Inhalable fraction.
		10 mg/m3	Respirable fume.
		10 mg/m3	Respirable fraction.
Calcium Sulfate Gypsum (Inhalable Fraction) (CAS 13397-24-5)	MAK	5 mg/m3	Respirable fraction.
,	STEL	10 mg/m3	Respirable fraction.
Fumes, Silica (CAS 69012-64-2)	MAK	0,3 mg/m3	Respirable fraction.
Quartz (SiO2) (CAS 14808-60-7)	MAK	0,15 mg/m3	Respirable dust.
Belgium. Exposure Limit Values.			
Components	Туре	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.
Calcium Sulfate Gypsum (Inhalable Fraction) (CAS 13397-24-5)	TWA	10 mg/m3	
Cement, portland, chemicals (CAS 65997-15-1)	TWA	10 mg/m3	
Quartz (SiO2) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable dust.
Bulgaria. OELs. Regulation No 13 o Components	on protection of workers a Type	against risks of exposure to o Value	chemical agents at wo
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	3,5 mg/m3	Respirable fraction.
		10 mg/m3	Dust.
		1,5 mg/m3	Respirable fraction.
Calcium Sulfate Gypsum (Inhalable Fraction) (CAS 13397-24-5)	TWA	6 mg/m3	Inhalable fraction.
Fumes, Silica (CAS 69012-64-2)	TWA	10 mg/m3	Inhalable fraction.
		0,07 mg/m3	Respirable fraction.
	TWA	0,07 mg/m3	Respirable fraction.

Material name: HWI SHIELD TR

SDS EU 204C Version #: 01 Issue date: 16-April-2019

Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine,

13/09 Components	Туре	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	MAC	4 mg/m3	Respirable dust.
		10 mg/m3	Total dust.
Calcium Sulfate Gypsum (Inhalable Fraction) (CAS 13397-24-5)	MAC	4 mg/m3	Respirable dust.
Company portland share:	MAC	10 mg/m3	Total dust.
Cement, portland, chemicals (CAS 65997-15-1)	MAC	4 mg/m3	Respirable dust.
France Cilian (CAC	MAC	10 mg/m3	Total dust.
Fumes, Silica (CAS 69012-64-2)	MAC	6 mg/m3	Total dust.
0 (0:02) (0:0	M/ C	2,4 mg/m3	Respirable dust.
Quartz (SiO2) (CAS 14808-60-7)	MAC	0,1 mg/m3	
Cyprus. OELs. Control of factory amended.	atmosphere and dangerous	substances in factories reg	ulation, PI 311/73, as
Components	Туре	Value	
Cement, portland, chemicals (CAS 65997-15-1)	TWA	10 mg/m3	
Fumes, Silica (CAS 69012-64-2)	TWA	2 mg/m3	
Czech Republic. OELs. Governme			_
Components	Туре	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	0,1 mg/m3	Respirable dust.
Calcium Sulfate Gypsum (Inhalable Fraction) (CAS 13397-24-5)	TWA	10 mg/m3	Dust.
Cement, portland, chemicals (CAS 65997-15-1)	TWA	10 mg/m3	Dust.
Fumes, Silica (CAS 69012-64-2)	TWA	4 mg/m3	Dust.
Quartz (SiO2) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable dust.
Denmark. Exposure Limit Values Components	Туре	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TLV	5 mg/m3	Total
•		2 mg/m3	Respirable.
Fumes, Silica (CAS 69012-64-2)	TLV	2 mg/m3	Respirable.
Quartz (SiO2) (CAS 14808-60-7)	TLV	0,3 mg/m3	Total
· · · · · · · · · · · · · · · · · · ·		0,1 mg/m3	Respirable.
Estonia. OELs. Occupational Expo	osure Limits of Hazardous S	substances. (Annex of Regul	lation No. 293 of 18
September 2001)		_	
Components	Туре	Value	Form
Aluminium Oxide	TWA	4 mg/m3	Respirable dust.

Components	Туре	Value	Form	
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	4 mg/m3	Respirable dust.	
		10 mg/m3	Total dust.	

Material name: HWI SHIELD TR

SDS EU

204C Version #: 01 Issue date: 16-April-2019

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)

September 2001)		_	_
Components	Туре	Value	Form
Fumes, Silica (CAS 69012-64-2)	TWA	2 mg/m3	Respirable dust.
Quartz (SiO2) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable dust.
Finland. Workplace Exposure Lin	nits		
Components	Туре	Value	Form
Calcium Sulfate Gypsum (Inhalable Fraction) (CAS 13397-24-5)	TWA	10 mg/m3	Dust.
Cement, portland, chemicals (CAS 65997-15-1)	TWA	5 mg/m3	Inhalable dust.
		1 mg/m3	Respirable.
Fumes, Silica (CAS 69012-64-2)	TWA	5 mg/m3	
Quartz (SiO2) (CAS 14808-60-7)	TWA	0,05 mg/m3	Respirable.
France. Threshold Limit Values (VLEP) for Occupational Exp	osure to Chemicals in France	e, INRS ED 984
Components	Туре	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	VME	10 mg/m3	
Regulatory status: Indicative	e limit (VL)		
Calcium Sulfate Gypsum (Inhalable Fraction) (CAS 13397-24-5)	VME	10 mg/m3	
Regulatory status: Indicative	e limit (VL)		
Quartz (SiO2) (CAS	VME	0,1 mg/m3	Respirable fraction.

Regulatory status: Regulatory binding (VRC)

14808-60-7)

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Туре	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	4 mg/m3	Inhalable fraction.
		1,5 mg/m3	Respirable fraction.
Calcium Sulfate Gypsum (Inhalable Fraction) (CAS 13397-24-5)	TWA	4 mg/m3	Inhalable fraction.
		1,5 mg/m3	Respirable fraction.
Fumes, Silica (CAS 69012-64-2)	TWA	0,3 mg/m3	Respirable fraction.
Germany. TRGS 900, Limit Value	es in the Ambient Air at the Workplace		
Components	Туре	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	AGW	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.
Calcium Sulfate Gypsum (Inhalable Fraction) (CAS	AGW	6 mg/m3	Respirable fraction.
13397-24-5)			

Material name: HWI SHIELD TR

SDS EU 204C Version #: 01 Issue date: 16-April-2019

	Туре	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	5 mg/m3	Inhalable
•		10 mg/m3	Respirable.
Calcium Sulfate Gypsum (Inhalable Fraction) (CAS 13397-24-5)	TWA	5 mg/m3	Respirable.
		10 mg/m3 10 mg/m3	Inhalable
lungary. OELs. Joint Decree on C Components	Chemical Safety of Workplaces Type	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	6 mg/m3	Respirable.
Calcium Sulfate Gypsum (Inhalable Fraction) (CAS 13397-24-5)	TWA	6 mg/m3	Respirable.
Cement, portland, chemicals (CAS 65997-15-1)	TWA	10 mg/m3	
Quartz (SiO2) (CAS 14808-60-7)	TWA	0,15 mg/m3	Respirable.
Iceland. OELs. Regulation 154/19 Components	999 on occupational exposure limits Type	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	10 mg/m3	
Calcium Sulfate Gypsum (Inhalable Fraction) (CAS 13397-24-5)	TWA	5 mg/m3	Respirable dust.
,		10 mg/m3	Total dust.
		0,5 mg/m3	Dust.
Cement, portland, chemicals CAS 65997-15-1)	TWA	5 mg/m3	Respirable dust.
		10 mg/m3	Total dust.
Fumes, Silica (CAS 59012-64-2)	TWA	2 mg/m3	Respirable mist.
Quartz (SiO2) (CAS	TWA	0,3 mg/m3	Total dust.
		, 5.	
		0,1 mg/m3	Respirable dust.
14808-60-7)		· -	Respirable dust.
Ireland. Occupational Exposure L Components Aluminium Oxide (Non-Fibrous) (CAS	imits	0,1 mg/m3	·
Ireland. Occupational Exposure L Components Aluminium Oxide (Non-Fibrous) (CAS	.imits Type	0,1 mg/m3	Form
Ireland. Occupational Exposure L Components Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1) Cement, portland, chemicals	.imits Type	0,1 mg/m3 Value 4 mg/m3	Form Respirable dust.
Ireland. Occupational Exposure L Components Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1) Cement, portland, chemicals (CAS 65997-15-1) Fumes, Silica (CAS	.imits Type TWA	0,1 mg/m3 Value 4 mg/m3 10 mg/m3	Form Respirable dust. Total inhalable dust. Respirable dust.
Ireland. Occupational Exposure L Components Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1) Cement, portland, chemicals (CAS 65997-15-1) Fumes, Silica (CAS 69012-64-2)	Type TWA	0,1 mg/m3 Value 4 mg/m3 10 mg/m3 1 mg/m3	Form Respirable dust. Total inhalable dust.

Italy. Occupational Exposure Limit Components	Туре	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.
Calcium Sulfate Gypsum (Inhalable Fraction) (CAS 13397-24-5)	TWA	10 mg/m3	Inhalable fraction.
Cement, portland, chemicals (CAS 65997-15-1)	TWA	1 mg/m3	Respirable fraction.
Quartz (SiO2) (CAS 14808-60-7)	TWA	0,025 mg/m3	Respirable fraction.
Latvia. OELs. Occupational exposu Components	re limit values of chemical Type	l substances in work environ Value	ment Form
Aluminium Oxide Non-Fibrous) (CAS 1344-28-1)	TWA	6 mg/m3	Decomposition aerosol.
		4 mg/m3	
Calcium Sulfate Gypsum (Inhalable Fraction) (CAS 13397-24-5)	TWA	4 mg/m3	
Cement, portland, chemicals (CAS 65997-15-1)	TWA	6 mg/m3	
Fumes, Silica (CAS 59012-64-2)	TWA	1 mg/m3	
Lithuania. OELs. Limit Values for (Components	Chemical Substances, Gene Type	eral Requirements Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	5 mg/m3	Inhalable fraction.
		2 mg/m3	Respirable fraction.
Cement, portland, chemicals CAS 65997-15-1)	TWA	5 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Quartz (SiO2) (CAS 1.4808-60-7)	TWA	0,1 mg/m3	Respirable fraction.
Netherlands. OELs (binding) Components	Туре	Value	Form
Quartz (SiO2) (CAS L4808-60-7)	TWA	0,075 mg/m3	Respirable dust.
Norway. Administrative Norms for Components	Contaminants in the World	kplace Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TLV	10 mg/m3	
Fumes, Silica (CAS 59012-64-2)	TLV	1,5 mg/m3	Respirable dust.
Quartz (SiO2) (CAS 1.4808-60-7)	TLV	0,3 mg/m3	Total dust.
		0,1 mg/m3	Respirable dust.
Ordinance of the Minister of Labou and intensities of harmful health f	actors in the work environ		
Components	Туре		
Aluminium Oxide Non-Fibrous) (CAS .344-28-1)	TWA	2,5 mg/m3	Inhalable fraction.
		1,2 mg/m3	Respirable fraction.

Material name: HWI SHIELD TR 204C Version #: 01 Issue date: 16-April-2019

Components	Туре	Value	Form
Calcium Sulfate Gypsum Inhalable Fraction) (CAS 13397-24-5)	TWA	10 mg/m3	Inhalable fraction.
Cement, portland, chemicals (CAS 65997-15-1)	TWA	6 mg/m3	Inhalable fraction.
		2 mg/m3	Respirable fraction.
Quartz (SiO2) (CAS .4808-60-7)	TWA	2 mg/m3	Inhalable fraction.
		0,3 mg/m3	Respirable fraction.
Portugal. VLEs. Norm on occupat Components	ional exposure to chemical Type	agents (NP 1796) Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	10 mg/m3	
Calcium Sulfate Gypsum Inhalable Fraction) (CAS 13397-24-5)	TWA	10 mg/m3	Inhalable fraction.
Cement, portland, chemicals CAS 65997-15-1)	TWA	10 mg/m3	
Quartz (SiO2) (CAS .4808-60-7)	TWA	0,025 mg/m3	Respirable fraction.
Romania. OELs. Protection of wo Components	rkers from exposure to che Type	mical agents at the workplac Value	ce Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	STEL	5 mg/m3	Aerosol
ŕ	TWA	2 mg/m3	Aerosol
Calcium Sulfate Gypsum Inhalable Fraction) (CAS .3397-24-5)	TWA	10 mg/m3	Inhalable fraction.
Cement, portland, chemicals CAS 65997-15-1)	TWA	10 mg/m3	Inhalable fraction.
Quartz (SiO2) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable fraction.
Romania. OELs/CMRs. Protection Iin 16 august 2006, Annex 3	of workers from exposure	to carcinogen and mutagen	agents. Hotarâre Nr. 1
Components	Туре	Value	Form
Quartz (SiO2) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable dust.
Slovakia. OELs for carcinogens a Components	nd mutagens. Regulation N Type	o. 46/2002 on carcinogenic a Value	and mutagenic substan Form
Quartz (SiO2) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable fraction.
Slovakia. OELs. Regulation No. 3 Components	00/2007 concerning protec Type	tion of health in work with c Value	hemical agents Form
Numinium Oxide Non-Fibrous) (CAS 344-28-1)	TWA	4 mg/m3	Inhalable fraction.
		1,5 mg/m3 0,1 mg/m3	Respirable fraction.
Calcium Sulfate Gypsum (Inhalable Fraction) (CAS	TWA	4 mg/m3	Inhalable fraction.
13397-24-5)			

Material name: HWI SHIELD TR 204C Version #: 01 Issue date: 16-April-2019 TWA

Cement, portland, chemicals (CAS 65997-15-1)

Respirable fraction.

1,5 mg/m3

10 mg/m3

Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents Components Type Value Form TWA 0,3 mg/m3

69012-64-2) Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia) Components **Form Type Value** Calcium Sulfate Gypsum TWA 6 mg/m3 Respirable fraction. (Inhalable Fraction) (CAS 13397-24-5) Fumes, Silica (CAS **TWA** 4 mg/m3 Inhalable fraction. 69012-64-2) Quartz (SiO2) (CAS TWA 0,15 mg/m3 Respirable fraction. 14808-60-7) **Spain. Occupational Exposure Limits Value Form Components Type** Aluminium Oxide TWA 10 mg/m3 (Non-Fibrous) (CAS 1344-28-1) Calcium Sulfate Gypsum TWA 10 mg/m3 (Inhalable Fraction) (CAS 13397-24-5) Cement, portland, chemicals **TWA** 4 mg/m3 Respirable fraction. (CAS 65997-15-1) Quartz (SiO2) (CAS **TWA** 0,05 mg/m3 Respirable fraction. 14808-60-7) Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7) Components **Type Value Form** Aluminium Oxide TWA 5 mg/m3 Total dust. (Non-Fibrous) (CAS 1344-28-1) 2 mg/m3 Respirable dust. Quartz (SiO2) (CAS **TWA** 0,1 mg/m3 Respirable dust. 14808-60-7) Switzerland. SUVA Grenzwerte am Arbeitsplatz **Components Type Value Form STEL** Aluminium Oxide 24 mg/m3 Fume and respirable dust. (Non-Fibrous) (CAS 1344-28-1) **TWA** 3 mg/m3 Respirable dust. 3 mg/m3 Fume and respirable dust. Calcium Sulfate Gypsum **TWA** 3 mg/m3 Respirable dust. (Inhalable Fraction) (CAS 13397-24-5) **TWA** Inhalable dust. Cement, portland, chemicals 5 mg/m3 (CAS 65997-15-1) Quartz (SiO2) (CAS **TWA** 0,15 mg/m3 Respirable dust. 14808-60-7) **UK. EH40 Workplace Exposure Limits (WELs)** Components **Value Form** Type Aluminium Oxide TWA 4 mg/m3 Respirable dust. (Non-Fibrous) (CAS 1344-28-1) 10 mg/m3 Inhalable dust. Calcium Sulfate Gypsum **TWA** Respirable dust. 4 mg/m3 (Inhalable Fraction) (CAS 13397-24-5)

Material name: HWI SHIELD TR 204C Version #: 01 Issue date: 16-April-2019 Inhalable dust.

10 mg/m3

UK. EH40 Workplace Exposure Li Components	mits (WELs) Type	Value	Form
Cement, portland, chemicals (CAS 65997-15-1)	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Inhalable dust.
Fumes, Silica (CAS 69012-64-2)	TWA	6 mg/m3	Inhalable dust.
		2,4 mg/m3	Respirable dust.
Quartz (SiO2) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable.
EU. OELs, Directive 2004/37/EC	on carcinogen and mutage	ns from Annex III, Part A	
Components	Туре	Value	Form
Quartz (SiO2) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable fraction and dust

Biological limit valuesNo biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures

Follow standard monitoring procedures.

Derived no effect levels (DNELs)

Not available.

Predicted no effect concentrations (PNECs)

Not available.

Exposure guidelines

Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled. Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

8.2. Exposure controls

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure

limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information Personal protection equipment should be chosen according to the CEN standards and in discussion

with the supplier of the personal protective equipment.

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

- **Hand protection** Wear appropriate chemical resistant gloves.

- **Other** Wear suitable protective clothing.

Respiratory protection Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels

exceeding the exposure limits.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.







Hygiene measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental exposure

controls

Environmental manager must be informed of all major releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Solid.
Form Solid.

ColourNot available.OdourNot available.Odour thresholdNot available.

pН Not available. Not available. Melting point/freezing point Initial boiling point and Not available.

boiling range

Flash point Not available. **Evaporation rate** Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits Not available.

Flammability limit - lower

(%)

Flammability limit -

upper (%)

Not available.

Vapour pressure Not available. Vapour density Not available. Not available. **Relative density**

Solubility(ies)

Solubility (water) Not available. **Partition coefficient** Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** Not available. **Viscosity Explosive properties** Not explosive. **Oxidising properties** Not oxidising.

9.2. Other information No relevant additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with

incompatible materials.

10.5. Incompatible materials Acids. Powerful oxidizers. Chlorine.

Incompatibility is based strictly upon potential theoretical reactions between chemicals and may not

be specific to industrial application exposure.

10.6. Hazardous

decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact No adverse effects due to skin contact are expected. **Eve contact** Direct contact with eyes may cause temporary irritation.

Ingestion May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

Symptoms Coughing. 11.1. Information on toxicological effects

Acute toxicity Not known.

Skin corrosion/irritation

Serious eye damage/eye

Due to partial or complete lack of data the classification is not possible. Due to partial or complete lack of data the classification is not possible.

irritation

Respiratory sensitisation Due to partial or complete lack of data the classification is not possible. Skin sensitisation Due to partial or complete lack of data the classification is not possible. Germ cell mutagenicity Due to partial or complete lack of data the classification is not possible.

Carcinogenicity

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled. Risk of cancer cannot be excluded with prolonged exposure.

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Not listed.

IARC Monographs. Overall Evaluation of Carcinogenicity

Quartz (SiO2) (CAS 14808-60-7) 1 Carcinogenic to humans.

Reproductive toxicity Due to partial or complete lack of data the classification is not possible.

Developmental effects Quartz (SiO2) 0 **Developmental effects - EU category** Quartz (SiO2) 0 **Embryotoxicity** 0 Quartz (SiO2) Reproductivity Quartz (SiO2)

Specific target organ toxicity

- single exposure

Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity

- repeated exposure

Due to partial or complete lack of data the classification is not possible.

Due to partial or complete lack of data the classification is not possible. **Aspiration hazard**

Mixture versus substance

information

No information available.

Other information This product has no known adverse effect on human health.

SECTION 12: Ecological information

12.1. Toxicity Based on available data, the classification criteria are not met for hazardous to the aquatic

environment.

12.2. Persistence and

degradability

No data is available on the degradability of any ingredients in the mixture.

12.3. Bioaccumulative

potential

No data available.

Partition coefficient

n-octanol/water (log Kow)

Not available.

Not available. **Bioconcentration factor (BCF)** 12.4. Mobility in soil No data available.

12.5. Results of PBT and

vPvB assessment

Not a PBT or vPvB substance or mixture. Not available.

12.6. Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Not available. Contaminated packaging Not available. **EU** waste code Not available.

SECTION 14: Transport information

ADR

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

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

Not applicable.

Code

SECTION 15: Regulatory information

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

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Quartz (SiO2) (CAS 14808-60-7)

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP

Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC)

No 1907/2006, as amended.

National regulations Follow national regulation on the protection of workers from the risks of exposure to carcinogens

and mutagens at work, in accordance with Directive 2004/37/EC.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations Not available. References Not available. **Information on evaluation** Not available.

method leading to the classification of mixture

None.

Full text of any H-statements not written out in full under

Sections 2 to 15

Revision information

This document has undergone significant changes and should be reviewed in its entirety.

Training information Not available.

Disclaimer This information is based on our present knowledge on creation date. However, this shall not

constitute a guarantee for any specific product features and shall not establish a legally valid

contractual relationship.

Material name: HWI SHIELD TR 204C Version #: 01 Issue date: 16-April-2019