

# SAFETY DATA SHEET

Version #: 05 Issue date: 24-September-2020 Revision date: 06-September-2024 Supersedes date: 06-September-2024

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

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1.1. Product identifier			
Trade name or designation of the mixture	INSWOOL-HP BULK; INSWOOL BACK; INSWOOL-HP MODULE (	-HP BLANKET 4#, 6#, 8#, 10#; INSWOOL-HP BLANKET FOIL CM; INSWOOL-HP TRIM	
Registration number	-		
Synonyms	None.		
Brand Code	5830, 5826, 5827, 5828, 5824,	5829, 5831, 5835, 5825, 099C, 119C	
1.2. Relevant identified uses o	f the substance or mixture ar	nd uses advised against	
Identified uses	of the substance or mixture and uses advised against For Industrial Use Only • Primary Use: Refractory Ceramic Fiber (RCF) materials are used primarily in industrial high temperature insulating applications. Examples include heat shields, heat containment, gaskets, expansion joints, industrial furnaces, ovens, kilns, boilers and other process equipment at applications up to 1400°C. RCF based products are not intended for direct sale to the general public. While RCFs are used in the manufacture of some consumer products, such as catalytic converter mats and wood burning stoves, the materials are contained, encapsulated, or bonded within the units. • Secondary Use: Conversion into wet and dry mixtures and articles (refer to section 8). • Tertiary Use: Installation, removal (industrial and professional) / Maintenance and service life (industrial and professional) (refer to section 8).		
Uses advised against	Avoid dry cutting, blasting, or c	lust generation.	
<b>1.3. Details of the supplier of t</b>	he safety data sheet		
Supplier			
Company name Address	HarbisonWalker International a 1305 Cherrington Parkway, Sui Moon Township, PA 15108, US United States	te 100	
Division			
Telephone	General Phone:	412-375-6743	
e-mail	sds@thinkHWI.com		
Contact person	HWI USA		
1.4. Emergency telephone number	CHEMTREC EMERGENCY US/CAN ONLY	1-800-424-9300	
SECTION 2: Hazards ider	ntification		
2.1. Classification of the subst	ance or mixture		
Classification according to Reg		as amended	
Health hazards	,		
Carcinogenicity (inhalation	n) Category 1B		
2.2. Label elements			
Label according to Regulation	(EC) No. 1272/2008 as amen	ded	
Contains:	in this Annex [Man-made vitrec	cial Purpose Fibres, with the exception of those specified elsewhere ous (silicate) fibres with random orientation with alkaline oxide and CaO+ MgO+BaO) content less o	
Hazard pictograms	None.		
Signal word	Danger		
Hazard statements	The mixture does not meet the	criteria for classification.	
Precautionary statements			
Prevention			
P201	Obtain special instructions befo	re use.	
P202	Do not handle until all safety p	recautions have been read and understood.	
P261	Avoid breathing dust/fume/gas	/mist/vapors/spray.	

P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
Response	
P308 + P313	IF exposed or concerned: Get medical advice/attention.
Storage	Not available.
Disposal	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Supplemental label information	None.
2.3. Other hazards	None known.

# **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

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#### **General information**

Chemical name	%	CAS-No. / EC No.	<b>REACH Registration No.</b>	Index No.	Notes
Refractory Ceramic Fibres, Special Purpose Fibres, with the exception of those specified elsewhere in this Annex [Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+ MgO+BaO) content less o	80 - 100	142844-00-6 -	01-2119488048-29-00XX	650-017-00-8	#
Classification:	Carc. 1B;H3	50, Carc. 2;H351			

# **SECTION 4: First aid measures**

General information	Not available.
4.1. Description of first aid mea	sures
Inhalation	Not available.
Skin contact	Not available.
Eye contact	Not available.
Ingestion	Not available.
4.2. Most important symptoms and effects, both acute and delayed	Not available.
4.3. Indication of any immediate medical attention and special treatment needed	Not available.
SECTION 5: Firefighting r	neasures
General fire hazards	Not available.
5.1. Extinguishing media	
Suitable extinguishing media	Not available.
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 procedures	Not available.

# **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Not available.
For emergency responders	Not available.
6.2. Environmental precautions	Not available.
6.3. Methods and material for containment and cleaning up	Not available.
6.4. Reference to other sections	Not available.

### **SECTION 7: Handling and storage**

7.1. Precautions for safe handling	Not available.
7.2. Conditions for safe storage, including any incompatibilities	Not available.
7.3. Specific end use(s)	Not available.

# **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

#### Occupational exposure limits

#### Austria. TRK List, OEL Ordinance (GwV), BGBI. II, no. 184/2001

Components	Туре	Value	Form
Refractory Ceramic Fibres, Special Purpose Fibres, with the exception of those specified elsewhere in this Annex [Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+ MgO+BaO) content less o (CAS 142844-00-6)	STEL	2000000 fibers/m3	Fiber.
Belgium. Exposure Limit Values Components	Туре	Value	Form
Refractory Ceramic Fibres, Special Purpose Fibres, with the exception of those specified elsewhere in this Annex [Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+ MgO+BaO) content less o (CAS 142844-00-6)	TWA	1000000 fibers/m3	Fiber.

# Bulgaria. OEL values of carcinogens and mutagens at work (Reg. 10/2003 on prot. from carcinogens and mutagens at work, Ann. 1), as amended

mutagens at work, Ann. 1), as ame Components	Туре	Value	Form
Refractory Ceramic Fibres, Special Purpose Fibres, with the exception of those specified elsewhere in this Annex [Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+ MgO+BaO) content less o (CAS 142844-00-6)	TWA	0,3 fibers/cm3	Fiber.
Bulgaria. OELs. Regulation No 13 o Components	on protection of workers a Type	gainst risks of exposure to ch Value	nemical agents at work Form
Refractory Ceramic Fibres, Special Purpose Fibres, with the exception of those specified elsewhere in this Annex [Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+ MgO+BaO) content less o (CAS 142844-00-6)	TWA	1 fibers/cm3	Respirable fraction.
		6 mg/m3	Inhalable fraction.
Croatia. OELs (GVI). Regulation or	Protection of Workers ag	ainst Exposure to Dangerous	Chemicals at Work, OEL
and Biological Limit Values, Annex Components	I (NN 91/2018), as amen Type	ded Value	
Refractory Ceramic Fibres, Special Purpose Fibres, with the exception of those specified elsewhere in this Annex [Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+ MgO+BaO) content less o (CAS 142844-00-6)	MAC	0,3 fibers/cm3	
Czech Republic. OELs. Governmen	t Decree 361		
Components	Туре	Value	
Refractory Ceramic Fibres, Special Purpose Fibres, with the exception of those specified elsewhere in this Annex [Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide	TWA	4 mg/m3	

Finland. Government Decree on Wor Components	k-related Cancer Risks Type	Value	Form
Refractory Ceramic Fibres, Special Purpose Fibres, with the exception of those specified elsewhere in this Annex [Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+ MgO+BaO) content less o (CAS 142844-00-6)	TWA	0,3 fibers/cm3	Fiber.
Finland. Workplace Exposure Limits Components	Туре	Value	Form
Refractory Ceramic Fibres, Special Purpose Fibres, with the exception of those specified elsewhere in this Annex [Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+ MgO+BaO) content less o	TWA	0,3 fibers/cm3	Respirable.
(CAS 142844-00-6)		0,2 fibers/cm3	Respirable.
France. Threshold Limit Values (VLE Components	P) for Occupational Exposure to Cl Type		-
Refractory Ceramic Fibres, Special Purpose Fibres, with the exception of those specified elsewhere in this Annex [Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+ MgO+BaO) content less o (CAS 142844-00-6)	VME	0,1 fibers/cm3	Fiber.
Regulatory status: Regulatory bi	nding (VRC)		
Hungary. OELs. Joint Decree on Che Components	mical Safety of Workplaces Type	Value	Form
Refractory Ceramic Fibres, Special Purpose Fibres, with the exception of those specified elsewhere in this Annex [Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+ MgO+BaO) content less o (CAS 142844-00-6)	TWA	0,3 fibers/cm3	Fibrous dust.

Ireland. Occupational Exposure Limits Components	Туре	Value	Form
Refractory Ceramic Fibres, Special Purpose Fibres, with the exception of those specified elsewhere in this Annex [Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+ MgO+BaO) content less o (CAS 142844-00-6)	TWA	1 fibers/cm3	Fiber.
		0,3 fibers/cm3	Fiber.
		5 mg/m3	Fiber.
Latvia. OELs. Occupational exposure li Components	imit values of chemica Type	Il substances in work environ Value	ment
Refractory Ceramic Fibres, Special Purpose Fibres, with the exception of those specified elsewhere in this Annex [Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+ MgO+BaO) content less o (CAS 142844-00-6)	TWA	2 mg/m3	
Lithuania. OELs. Limit Values for Che Components	mical Substances, Gen Type	eral Requirements Value	
Refractory Ceramic Fibres, Special Purpose Fibres, with the exception of those specified elsewhere in this Annex [Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+ MgO+BaO) content less o (CAS 142844-00-6)	TWA	0,3 fibers/cm3	
Netherlands. OELs (binding)	-		
Components	Туре	Value	
Refractory Ceramic Fibres, Special Purpose Fibres, with the exception of those specified elsewhere in this Annex [Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+ MgO+BaO) content less o (CAS 142844-00-6)	TWA	0,3 fibers/cc	

(CAS 142844-00-6)

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or Contaminants in the Wor Type	kplace Value	Form
TLV	0,1 fibers/cm3	Fiber.
	s of harmful factors in the wo	ork environment
Туре	Value	Form
TWA	0,3 fibers/cm3	Fiber.
tional exposure to chemical Type	agents (NP 1796) Value	Form
TWA	0,2 fibers/cm3	Fiber.
	Type TLV TLV TYpe TWA TWA	TLV 0,1 fibers/cm3   oncentrations and intensities of harmful factors in the work   Type Value   TWA 0,3 fibers/cm3

		5 mg/m3	Inhalable fraction.
Slovakia. OELs for carcinogens a Components	and mutagens. Regulation N Type	lo. 46/2002 on carcinogenic a Value	nd mutagenic substances Form
Refractory Ceramic Fibres,	TWA	0,3 fibers/cm3	Fiber.

Refractory Ceramic Fibres,	IVVA	FIDEL.
Special Purpose Fibres, with		
the exception of those		
specified elsewhere in this		
Annex [Man-made vitreous		
(silicate) fibres with random		
orientation with alkaline		
oxide and alkali earth oxide		
(Na2O+K2O+CaO+		
MgO+BaO) content less o		
(CAS 142844-00-6)		

Spain. Occupational Expos Components		vpe	Value	Form
Refractory Ceramic Fibres, Special Purpose Fibres, with the exception of those specified elsewhere in this Annex [Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+ MgO+BaO) content less o (CAS 142844-00-6)	ΤV	VA	0,3 fibers/cm3	Fiber.
EU. OELs, Directive 2004/ Components		gen and mutage	ns from Annex III, Part A Value	
Refractory Ceramic Fibres, Special Purpose Fibres, with the exception of those specified elsewhere in this Annex [Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+ MgO+BaO) content less o (CAS 142844-00-6)	ΤV		0,3 fibers/ml	
logical limit values	No biological exposure limits noted for the ingredient(s).			
commended monitoring ocedures	Not available.			
rived no effect levels NELs)	Not available.			
dicted no effect acentrations (PNECs)	Not available.			
. Exposure controls				
propriate engineering htrols	Not available.			
lividual protection measure	es, such as persor	nal protective equ	Jipment	
General information	Not available.			
Eye/face protection	Not available.			
Skin protection				
- Hand protection	Not available.			
- Other	Not available.			
Respiratory protection	Not available.			
Thermal hazards	Not available.			
giene measures	Not available.			
vironmental exposure htrols	Not available.			
CTION 9: Physical and	l chemical pro	perties		
. Information on basic phys	sical and chemica	l properties		
sical state	Solid.			
	Draced fibraria	antovial warral		

Physical state	Solid.
Form	Pressed fibrous material panel
Colour	Not available.
Odour	Not available.
Melting point/freezing point	Not available.
Boiling point or initial boiling point and boiling range	Not available.
Flammability	Not available.
Flash point	Not available.
Auto-ignition temperature	Not available.

Decomposition temperature	Not available.
рН	Not available.
Kinematic viscosity	Not available.
Solubility	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water) (log value)	Not available.
Vapour pressure	Not available.
Density and/or relative density	Not available.
Vapour density	Not available.
Particle characteristics	Not available.
9.2. Other information	
9.2.1. Information with regard to physical hazard classes	No relevant additional information available.
9.2.2. Other safety characteristics	No relevant additional information available.

# **SECTION 10: Stability and reactivity**

10.1. Reactivity	Not available.
10.2. Chemical stability	Not available.
<b>10.3. Possibility of hazardous reactions</b>	Not available.
10.4. Conditions to avoid	Not available.
10.5. Incompatible materials	Not available.
10.6. Hazardous decomposition products	Not available.

### **SECTION 11: Toxicological information**

Not available.
of exposure
Not available.

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

Acute toxicity Not known	•
Skin corrosion/irritation Not availab	ole.
Serious eye damage/eye Not availab	le.
Respiratory sensitisation Not availab	ole.
Skin sensitisation Not availab	ole.
Germ cell mutagenicity Not availab	ole.

#### Carcinogenicity

### France Mandatory OELs (VLEP): Carcinogen category

Refractory Ceramic Fibres, Special Purpose Fibres, with the exception of those specified elsewhere in this Annex [Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+ MgO+BaO) content less o (CAS 142844-00-6) Fibres de céramique réfractaires classés comme cancérogènes

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

Refractory Ceramic Fibres, Special Purpose Fibres, with the exception of those specified elsewhere in this Annex [Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+ MgO+BaO) content less o (CAS 142844-00-6)

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Refractory Ceramic Fibres, Special Purpose Fibres, with the exception of those specified elsewhere in this Annex [Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+ MgO+BaO) content less o (CAS 142844-00-6)

# Slovenia. CMR. Protection of workers from exposure to carcinogen and mutagen agents (ULRS 101/2005, as amended)

Refractory Ceramic Fibres, Special Purpose Fibres, with the exception of those specified elsewhere in this Annex [Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+ MgO+BaO) content less o (CAS 142844-00-6)

Reproductive toxicity	Not available.
Specific target organ toxicity - single exposure	Not available.
Specific target organ toxicity - repeated exposure	Not available.
Aspiration hazard	Not available.
Mixture versus substance information	Not available.

# **11.2.** Information on other hazards

Endocrine disrupting<br/>propertiesNot available.Other informationNot available.

# **SECTION 12: Ecological information**

12.1. Toxicity	No toxicity data noted for the ingredient(s).
12.2. Persistence and degradability	Not available.
12.3. Bioaccumulative potential	Not available.
Partition coefficient n-octanol/water (log Kow)	Not available.
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	Not available.
12.5. Results of PBT and vPvB assessment	Not a PBT or vPvB substance or mixture.
12.6. Endocrine disrupting properties	Not available.
12.7. Other adverse effects	Not available.

# **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

n	
14.1. UN number	Not regulated as dangerous goods.
14.2. UN proper shipping	Not regulated as dangerous goods.
name	
14.3. Transport hazard cla	ss(es)
Class	Not assigned.
Subsidiary risk	-
Hazard No. (ADR)	Not assigned.
Tunnel restriction	Not assigned.
code	

14.4. Packing group	Not assigned.
14.5. Environmental	No.
hazards	
14.6. Special precautions	Not assigned.
for user RTD	
14.1. UN number	Not regulated as dangerous goods.
14.2. UN proper shipping	Not regulated as dangerous goods.
name	
14.3. Transport hazard clas	ss(es)
Class	Not assigned.
Subsidiary risk	-
14.4. Packing group 14.5. Environmental	Not assigned. No.
hazards	NO.
14.6. Special precautions	Not assigned.
for user	
ADN	
14.1. UN number	Not regulated as dangerous goods.
14.2. UN proper shipping name	Not regulated as dangerous goods.
14.3. Transport hazard clas	ss(es)
Class	Not assigned.
Subsidiary risk	-
14.4. Packing group	Not assigned.
14.5. Environmental hazards	No.
14.6. Special precautions	Not assigned.
for user	
ΙΑΤΑ	
14.1. UN number	Not regulated as dangerous goods.
14.2. UN proper shipping name	Not regulated as dangerous goods.
14.3. Transport hazard clas	ss(es)
Class	Not assigned.
Subsidiary risk	-
14.4. Packing group	Not assigned.
14.5. Environmental	No.
hazards 14.6. Special precautions	Not assigned.
for user	
IMDG	
14.1. UN number	Not regulated as dangerous goods.
14.2. UN proper shipping	Not regulated as dangerous goods.
name 14.3. Transport hazard clas	ss(es)
Class	Not assigned.
Subsidiary risk	-
14.4. Packing group	Not assigned.
14.5. Environmental hazard	
Marine pollutant	No.
EmS 14.6. Special precautions	Not assigned. Not assigned.
for user	ווטר מסטורכע.
14.7. Maritime transport in	Not available.
bulk according to IMO	
instruments	

# **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 (EU) 2019/1021 On persistent organic pollutants (recast), 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

Refractory Ceramic Fibres, Special Purpose Fibres, with the exception of those specified elsewhere in this Annex [Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+ MgO+BaO) content less o (CAS 142844-00-6)

#### 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

Refractory Ceramic Fibres, Special Purpose Fibres, with the exception of those specified elsewhere in this Annex [Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+ MgO+BaO) content less o (CAS 142844-00-6)

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

Refractory Ceramic Fibres, Special Purpose Fibres, with the exception of those specified elsewhere in this Annex [Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na2O+K2O+CaO+ MgO+BaO) content less o (CAS 142844-00-6)

#### Other EU regulations

N 1 a

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

Not listed.

lational regulations	Not available.
5.2. Chemical safety	Not available.
ssessment	

# **SECTION 16: Other information**

List of abbreviations	Not available.
References	Not available.
Information on evaluation method leading to the classification of mixture	Not available.
Full text of any statements, which are not written out in full under sections 2 to 15	H350 May cause cancer by inhalation. H351 Suspected of causing cancer by inhalation.
Revision information	None.
Training information	Not available.