

# SAFETY DATA SHEET

# 1. Identification

**Product identifier** 

#### INSWOOL-HTZ BULK; INSWOOL-HTZ BLANKET 6#, 8#, 10#, 12#; INSWOOL-HTZ MODULE CM; INSWOOL-HTZ MODULE E5; INSWOOL-HZ MODULE LFNW; INSWOOL-HTZ TRIM; INSWOOL-HTZ-X BLANKET 8#

Other means of identification	
Brand Code	6724, 5836, 5837, 153A, 003B, 5839, 5840, 5841, 5843, 472A, 098C, 100C
Recommended use	For Industrial or Professional 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).
Recommended restrictions	Avoid dry cutting, blasting, or dust generation.
Manufacturer/Importer/Supplie	r/Distributor information

#### Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name	HarbisonWalker International	
Address	1305 Cherrington Parkway, Suite 100	
	Moon Township, Pennsylvania 15108 US	
Telephone	phone General Phone:	
Website	www.thinkHWI.com	
Emergency phone number	CHEMTREC 24 HOUR EMERGENCY #	1-800-424-9300

### 2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Carcinogenicity	Category 2
	Specific target organ toxicity, repeated exposure	Category 2
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	

Label elements



Signal word	Warning
Hazard statement	Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection.
Response	Get medical advice/attention if you feel unwell.
Storage	Store away from incompatible materials.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.

# 3. Composition/information on ingredients

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
Aluminosilicate Refractory Ceran Fiber	hic REFRACTORY CERAMIC FIBER/FIBRE (RCF) High Temperature Insulation Wool (HTIW ) SYNTHETIC VITREOUS FIBERS (SVF) Man-Made Mineral Fiber (MMMF) Man-Made Vitreous Fiber (MMVF) Alumino Silicate Wool (ASW)	142844-00-6	80 - 100
Composition comments	This product contains Refractory Ceramic Fibers ( classified RCFs as a possible human carcinogen, sufficient evidence of carcinogenicity in animals ar respirable RCFs as reasonably anticipated carcino study was issued in 2017 (LeMasters et al., in pre follow-up, no excess of lung cancers in the mortali radiographic findings of interstitial fibrosis were fou found a small incidence of other effects that appea report did not change the current hazard classifica handling methods are followed, including air monit airborne fibers, minimizing airborne exposures thro wearing protective clothing, gloves, and eye protect www.htiwcoalition.org Please review the workplace	Group 2B. This classificat id no available data in hur igens. The final report of ss). The study concluded ty study and no significant and in this group of worker or unrelated to RCF exposi- tion for RCF. HWI recom- oring in areas wherever the bugh use of NIOSH appro- ction. For additional inform	ion was based on nans. NTP classified the USA mortality I that "after 30 years of association with rs." The study also ure. The final mortalit mends that safe he potential exists for ved respirators, and nation please visit
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptoms dev	velop or persist.	
Skin contact	Wash off with soap and water. Get medical attention	on if irritation develops an	d persists.
Eye contact	Rinse with water. Get medical attention if irritation	develops and persists.	
Ingestion	Rinse mouth. Get medical attention if symptoms of	ccur.	
Most important symptoms/effects, acute and delayed	Prolonged exposure may cause chronic effects.		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat syn Symptoms may be delayed.	mptomatically. Keep victir	n under observation.
General information	If you feel unwell, seek medical advice (show the l	abel where possible).	
5. Fire-fighting measures			
Suitable extinguishing media	Use fire-extinguishing media appropriate for surrou	unding materials.	
Unsuitable extinguishing media	Not available.		
Specific hazards arising from the chemical	Not applicable.		
Special protective equipment and precautions for firefighters	Not available.		
6. Accidental release meas	ures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people a appropriate protective equipment and clothing duri personal protection, see section 8 of the SDS.		
Methods and materials for	Stop the flow of material, if this is without risk. Follo		

Stop the flow of material, if this is without risk. Following product recovery, flush area with water. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

containment and cleaning up

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

### 7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid prolonged exposure. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

# 8. Exposure controls/personal protection

### **Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. NIOSH: Pocket Guide t Components	Туре	Value	Form
Aluminosilicate Refractory Ceramic Fiber (CAS 142844-00-6)	TWA	3 fibers/cm3	Fiber.
		3 fibers/cm3	Fibrous dust.
		5 mg/m3	Fiber, total
		5 mg/m3	fibers, total dust
iological limit values	No biological exposure limits noted for the i	ingredient(s).	
xposure guidelines	Recommended Exposure Guideline 0.5 Fib RCF in the U.S. OSHA's "Particulate Not O 1910.1000, Subpart Z, Air Contaminants] a Fraction 5 mg/m3. The High Temperature comprehensive toxicology and epidemiolog [see Section 11 for more details], consulted conducted a thorough review of the RCF-re- in a state-of-the-art quantitative risk assess OSHA PEL, HTIW has adopted a recomme method 7400B. The manufacturers' REG is through prudent exposure control and redu feasibility as determined by extensive indus an agreement with the U.S. Occupational S OCCUPATIONAL EXPOSURE LEVELS (C evaluation of occupational exposure limits a workplace is best performed, on a case-by-	otherwise Regulated (PNC opplies generally; Total Du- e Insulation Wool Coalition gy studies to identify poter d experts familiar with fibe- elated scientific literature, sment. Based on these effended exposure guideline intended to promote occ ction and it reflects relative strial hygiene monitoring e Safety and Health Adminis DEL) Non-regulatory OEL and determining their rela- case basis, by a qualified	DR)" standard [29 CFR ast 15 mg/m3; Respirable in (HTIW) has sponsored intial RCF-related health effec r and particle science, and further evaluated the dat orts and in the absence of ar , as measured under NIOSH upational health and safety re technical and economic efforts undertaken pursuant to stration (OSHA). OTHER decisions also vary. The tive applicability to the I Industrial Hygienist.
ppropriate engineering ontrols	Good general ventilation (typically 10 air ch should be matched to conditions. If applica or other engineering controls to maintain ai exposure limits have not been established,	ble, use process enclosur rborne levels below recor	es, local exhaust ventilation, nmended exposure limits. If
dividual protection measures Eye/face protection	s, such as personal protective equipment Wear safety glasses with side shields (or g	oggles).	
Skin protection			
Hand protection	Wear appropriate chemical resistant gloves	S.	
Other	Wear appropriate chemical resistant clothir	ng. Use of an impervious a	apron is recommended.
Respiratory protection	Use a NIOSH/MSHA approved respirator if exceeding the exposure limits.	there is a risk of exposur	e to dust/fume at levels
Thermal hazards	Wear appropriate thermal protective clothin	ng, when necessary.	
eneral hygiene onsiderations	Observe any medical surveillance requirem measures, such as washing after handling smoking. Routinely wash work clothing and	the material and before e	ating, drinking, and/or
	measures, such as washing after handling smoking. Routinely wash work clothing and	the material and before e	ating, drinking, and/or
onsiderations . Physical and chemical	measures, such as washing after handling smoking. Routinely wash work clothing and	the material and before e	ating, drinking, and/or
onsiderations	measures, such as washing after handling smoking. Routinely wash work clothing and properties	the material and before e	ating, drinking, and/or

Not available.

Not available.

Color

Odor

Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.

Reactivity	The product is stable and non reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Incompatibility is based strictly upon potential theoretical reactions between chemicals and may not be specific to industrial application exposure.
Hazardous decomposition products	No hazardous decomposition products are known.

# 11. Toxicological information

### Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.
Information on toxicological effect	cts
Acute toxicity	Not known.
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.		
Respiratory or skin sensitizatior	1		
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to cause	skin sensitization.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	Suspected of causing cancer.		
IARC Monographs. Overall I	Evaluation of Carcinogenicity		
Aluminosilicate Refractor 142844-00-6)	y Ceramic Fiber (CAS 2B Pc	ossibly carcinogenic to humans.	
OSHA Specifically Regulate	d Substances (29 CFR 1910.1001-105	2)	
Not regulated. US. National Toxicology Pro	gram (NTP) Report on Carcinogens		
Not listed.			
Reproductive toxicity	This product is not expected to cause	reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	May cause damage to organs throug	n prolonged or repeated exposure.	
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	May cause damage to organs througl be harmful. Prolonged exposure may	n prolonged or repeated exposure. Prolonged inhalation may cause chronic effects.	
12. Ecological information	l i i i i i i i i i i i i i i i i i i i		
Ecotoxicity		onmentally hazardous. However, this does not exclude the can have a harmful or damaging effect on the environment.	
Persistence and degradability	No data is available on the degradab	lity of any ingredients in the mixture.	
Bioaccumulative potential	No data available.		
Mobility in soil	No data available.		
Other adverse effects	No other adverse environmental effect	ts (e.g. ozone depletion, photochemical ozone creation	

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

# 13. Disposal considerations

Disposal instructions	This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.
Hazardous waste code	Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority.
Waste from residues / unused products	Not available.
Contaminated packaging	Not available.

# 14. Transport information

### DOT

Not regulated as dangerous goods.

# IATA Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according toNot applicable.Annex II of MARPOL 73/78 andthe IBC Code

### 15. Regulatory information

15. Regulatory mormation	1	
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Standard, 29 CFR 1910.1200. Toxic Substances Control Act (TSCA) Sec has been assigned a CAS number; however, it is an "article" under TSCA from listing on the TSCA inventory. All chemical substances in this produc chemical substance inventory where required.	ction 12(b) - This product A and therefore exempt
TSCA Section 12(b) Export	Notification (40 CFR 707, Subpt. D)	
Not regulated.		
CERCLA Hazardous Substa	nce List (40 CFR 302.4)	
Not listed.		
SARA 304 Emergency relea	se notification	
Not regulated.	d Substances (29 CFR 1910.1001-1052)	
Not regulated.	a Substances (25 CFR 1910.1001-1052)	
·	authorization Act of 1986 (SARA)	
SARA 302 Extremely hazard		
Not listed.		
SARA 311/312 Hazardous	Yes	
chemical		
Classified hazard categories	Carcinogenicity Specific target organ toxicity (single or repeated exposure)	
SARA 313 (TRI reporting) Not regulated.		
Other federal regulations		
Clean Air Act (CAA) Section	112 Hazardous Air Pollutants (HAPs) List	
Not regulated. Clean Air Act (CAA) Section	112(r) Accidental Release Prevention (40 CFR 68.130)	
Not regulated.		
Safe Drinking Water Act (SDWA)	Not regulated.	
US state regulations		
California Proposition 65		
	Vater and Toxic Enforcement Act of 2016 (Proposition 65): This material ny chemicals currently listed as carcinogens or reproductive toxins. For ww.P65Warnings.ca.gov.	
International Inventories		
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes

China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date Revision date	09-01-2015 07-16-2019	
Version #	03	
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.	
Revision information	This document has undergone significant changes and should be reviewed in its entirety.	