

# SAFETY DATA SHEET

# 1. Identification

Product identifier	INSWOOL MOLDABLE		
Other means of identification			
Brand Code	5818		
Recommended use	For Industrial Use Only		
<b>Recommended restrictions</b>	Avoid dry cutting, blasting, or dust generation.		
Manufacturer/Importer/Supplier/Distributor information			
Manufacturer			
Company name	HarbisonWalker International		
Address	1305 Cherrington Parkway, Suite 100		
	Moon Township, Pennsylvania 15108 US		
Telephone	General Phone: 412-375-6600		
Website	www.thinkHWI.com		
Emergency phone number	Not available.		

## 2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Carcinogenicity
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	



Signal word Warning Suspected of causing cancer. Hazard statement **Precautionary statement** Obtain special instructions before use. Do not handle until all safety precautions have been read Prevention and understood. Wear protective gloves/protective clothing/eye protection/face protection. Response If exposed or concerned: Get medical advice/attention. Store away from incompatible materials. Storage Disposal Dispose of contents/container in accordance with local/regional/national/international regulations. Hazard(s) not otherwise None known. classified (HNOC) Supplemental information None.

Category 2

# 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Aluminosilicate Refractory Ceramic Fiber	Refractory Ceramic Fiber/Fibre (RCF) High Temperature Insulation Wool (HTIW ) Synthetic Vitreous Fiber (SVF) Man-Made Mineral Fiber (MMMF) Man-Made Vitreous Fiber (MMVF) Alumino Silicate Wool (ASW)	142844-00-6	20 - 40
Amorphous Silica	Fumed Silica Silica, crystalline free	7631-86-9	2.5 - 10
Starch		9005-25-8	1 - 2.5
Other components below reportable	levels		60 - 80
Material name: INSWOOL MOLDABLE			SDS U

5818 Version #: 03 Revision date: 01-20-2020 Issue date: 11-10-2015

**Composition comments** 

This product contains Refractory Ceramic Fibers (RCF) or an RCF wrap or mat. IARC has classified RCFs as a possible human carcinogen, Group 2B. This classification was based on sufficient evidence of carcinogenicity in animals and no available data in humans. NTP classified respirable RCFs as reasonably anticipated carcinogens. The final report of the USA mortality study was issued in 2017 (LeMasters et al., in press). The study concluded that "after 30 years of follow-up, no excess of lung cancers in the mortality study and no significant association with radiographic findings of interstitial fibrosis were found in this group of workers." The study also found a small incidence of other effects that appear unrelated to RCF exposure. The final mortality report did not change the current hazard classification for RCF. HWI recommends that safe handling methods are followed, including air monitoring in areas wherever the potential exists for airborne fibers, minimizing airborne exposures through use of NIOSH approved respirators, and wearing protective clothing, gloves, and eye protection. For additional information please visit www.htiwcoalition.org Please review the workplace guidelines for additional handling information.

### 4. 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.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention.

# 5. Fire-fighting measures

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding 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 measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. For personal protection, see section 8 of the SDS.	
Methods and materials for containment and cleaning up	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	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.	

Conditions for safe storage,<br/>including any incompatibilitiesStore in tightly closed container. Store away from incompatible materials (see Section 10 of the<br/>SDS).

Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good

# 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.

Aluminosilicate Refractory Ceramic Fiber (CAS 142844-00-6) US. OSHA Table Z-1 Limits Components Starch (CAS 9005-25-8) US. OSHA Table Z-3 (29 CFI Components Amorphous Silica (CAS 7631-86-9)	TWA for Air Contaminants (29 CFR 1910.100 Type PEL R 1910.1000) Type TWA	15 mg/m3 00) Value 5 mg/m3 15 mg/m3 Value 0.8 mg/m3	Total dust <b>Form</b> Respirable fraction. Total dust.
Components Starch (CAS 9005-25-8) US. OSHA Table Z-3 (29 CFI Components Amorphous Silica (CAS	Type           PEL           R 1910.1000)           Type	Value 5 mg/m3 15 mg/m3 Value	Respirable fraction.
Starch (CAS 9005-25-8) US. OSHA Table Z-3 (29 CFI Components Amorphous Silica (CAS	PEL R 1910.1000) Type	5 mg/m3 15 mg/m3 <b>Value</b>	Respirable fraction.
US. OSHA Table Z-3 (29 CFI Components Amorphous Silica (CAS	R 1910.1000) Туре	15 mg/m3 Value	·
Components Amorphous Silica (CAS	Туре	Value	Total dust.
Components Amorphous Silica (CAS	Туре		
Amorphous Silica (CAS			
	TWA	0.8 mg/m3	
7031-00-9)		20 mppcf	
US. ACGIH Threshold Limit	Values	-•	
Components	Type	Value	
Starch (CAS 9005-25-8)	TWA	10 mg/m3	
		io inginio	
US. NIOSH: Pocket Guide to Components	Chemical Hazards Type	Value	Form
Aluminosilicate Refractory	TWA	5 fibers/cm3	Respirable Fibrous dust
Ceramic Fiber (CAS			
142844-00-6)		0.5 mg/m3	Fiber, total
Amorphous Silica (CAS	TWA	6 mg/m3	
7631-86-9)		o mg/mo	
Starch (CAS 9005-25-8)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
ological limit values	No biological exposure limits noted for	the ingredient(s).	
posure guidelines propriate engineering ntrols	No biological exposure limits noted for the ingredient(s). Recommended Exposure Guideline 0.5 Fiber/CC There is no specific regulatory standard for RCF in the U.S. OSHA's "Particulate Not Otherwise Regulated (PNOR)" standard [29 CFR 1910.1000, Subpart Z, Air Contaminants] applies generally; Total Dust 15 mg/m3; Respirable Fraction 5 mg/m3. The High Temperature Insulation Wool Coalition (HTIW) has sponsored comprehensive toxicology and epidemiology studies to identify potential RCF-related health effects [see Section 11 for more details], consulted experts familiar with fiber and particle science, conducted a thorough review of the RCF-related scientific literature, and further evaluated the data in a state-of-the-art quantitative risk assessment. Based on these efforts and in the absence of an OSHA PEL, HTIW has adopted a recommended exposure guideline, as measured under NIOSH method 7400B. The manufacturers' REG is intended to promote occupational health and safety through prudent exposure control and reduction and it reflects relative technical and economic feasibility as determined by extensive industrial hygiene monitoring efforts undertaken pursuant to an agreement with the U.S. Occupational Safety and Health Administration (OSHA). OTHER OCCUPATIONAL EXPOSURE LEVELS (OEL) Non-regulatory OEL decisions also vary. The evaluation of occupational exposure limits and determining their relative applicability to the workplace is best performed, on a case-by-case basis, by a qualified Industrial Hygienist. 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,		
lividual protection measures,	or other engineering controls to mainta exposure limits have not been establish such as personal protective equipment	in airborne levels below recor hed, maintain airborne levels	nmended exposure limits. If
Eye/face protection	Wear safety glasses with side shields (	(or goggles).	
Skin protection Hand protection	Wear appropriate chemical resistant gl	oves.	
Other	Wear appropriate chemical resistant clo	othing. Use of an impervious	apron is recommended.
Respiratory protection	Use a NIOSH/MSHA approved respirat	tor if there is a risk of exposur	e to dust/fume at levels
· · · · · · · · · · · · · · · · · · ·	exceeding the exposure limits.	· · · · · · · · · · · · · · · · · · ·	



General hygiene considerations

Observe any medical surveillance requirements. 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.

### 9. Physical and chemical properties

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Solid.			
Paste.			
Not available.			
Upper/lower flammability or explosive limits			
Not available.			
Not available.			
Not explosive.			
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.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Chlorine. Fluorine. Incompatibility is based strictly upon potential theoretical reactions between chemicals and may not be specific to industrial application exposure.

# 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 effe	ects		
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 sensitization			
Respiratory sensitization	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.		
	Evaluation of Carcinogenicity		
Aluminosilicate Refractory Ceramic Fiber (CAS2B Possibly carcinogenic to humans.142844-00-6)3 Not classifiable as to carcinogenicity to humans.			
Not regulated.	d Substances (29 CFR 1910.1001-1052)		
	gram (NTP) Report on Carcinogens		
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.		
Specific target organ toxicity -	Not classified.		
single exposure			
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.		
12. Ecological information			
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.		
Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.		
Bioaccumulative potential	No data available.		
Mobility in soil	No data available.		
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.		
13. Disposal consideration	IS		
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 Not available. products

Contaminated packaging

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 to<br/>Annex II of MARPOL 73/78 and<br/>the IBC CodeNot applicable.

### 15. Regulatory information

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US federal regulations
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This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. Toxic Substances Control Act (TSCA) Section 12(b) - This product has been assigned a CAS number; however, it is an "article" under TSCA and therefore exempt from listing on the TSCA inventory. All chemical substances in this product are listed on the TSCA chemical substance inventory where required.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not available.

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

#### SARA 311/312 Hazardous Yes

chemical

Classified hazard Carcinogenicity categories

### 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 Not regulated. (SDWA)

### US state regulations

#### **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.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)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
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	No

\*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	11-10-2015
Revision date	01-20-2020
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	Product and Company Identification: Product and Company Identification