# **SAFETY DATA SHEET**



1. Identification

Product identifier INSWOOL PUMPABLE

Other means of identification

Brand Code 5820

Recommended use For Industrial Use Only

Recommended restrictions DO NOT INGEST. KEEP MATERIAL AWAY FROM CHILDREN AND PETS TO PREVENT

ACCIDENTAL INGESTION.

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 CHEMTREC 24 HOUR 1-800-424-9300

EMERGENCY #

Supplier Not available.

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Carcinogenicity Category 2

**Environmental hazards** Not classified.

Label elements



Signal word Warning

**Hazard statement** Suspected of causing cancer.

Precautionary statement

**Prevention** Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Wear protective gloves/protective clothing/eye protection/face protection.

**Response** IF exposed or concerned: Get medical advice/attention.

Storage Store locked up.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards None known.

Supplemental information None.

3. Composition/information on ingredients

**Mixtures** 

Material name: INSWOOL PUMPABLE SDS CANADA

Chemical name	Common name and synonyms	CAS number	%
FIBROUS GLASS	REFRACTORY CERAMIC FIBERS REFRACTORY CERAMIC FIBER (RCF) High Temperature Insulation Wool (HTIW) SYNTHETIC VITREOUS FIBERS (SVF) REFRACTORY CERAMIC FIBRES Refractories, fibers, aluminosilicate Man-Made Mineral Fiber (MMMF) Man-Made Vitreous Fiber (MMVF) Alumino Silicate Wool (ASW)	142844-00-6	10 - 20
SILICA, AMORPHOUS, FUMED	SILICA, AMORPHOUS, FUMED SILICA (CRYSTALLINE FREE)	7631-86-9	2.5 - 10
Other components below reportable levels			60 - 80
Additional components	Common name and synonyms	CAS number	%
Chemical name			

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

# **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. Recent industry ongoing epidemiology studies show the general health of workers in the RCF industry was similar to that of workers in other dusty work environments. There have been no reports of mesothelioma, and the lung cancer rate appears similar to background rates, but the number of workers with a long latency period are too few for definitive conclusions. There was a small number of employees with an increased risk of developing pleural plaques (shadows along the inside of the chest wall). These plaques, however, are not known to cause symptoms or disability. 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.

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

Ingestion Rinse mouth. Get medical attention if symptoms occur. Direct contact with eyes may cause temporary irritation. Most important

symptoms/effects, acute and delaved

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. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 5. Fire-fighting measures

Suitable extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing Not available. media

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. Local authorities should be advised if significant spillages cannot be contained. 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. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

#### Occupational exposure limits

•	Туре	Value	Form
FIBROUS GLASS (CAS 142844-00-6)	TWA	0.2 fibers/cm3	Fiber.
		5 mg/m3	Total particulate.
		5 mg/m3	Fiber, total
Canada. British Columbia O Safety Regulation 296/97, as	ELs. (Occupational Exposure Limit	s for Chemical Substances, Oc	cupational Health and
Components	Туре	Value	Form
FIBROUS GLASS (CAS 142844-00-6)	TWA	0.2 fibers/cm3	Fiber.
		5 mg/m3	Inhalable fibers.
SILICA, AMORPHOUS, FUMED (CAS 7631-86-9)	TWA	4 mg/m3	Total
		1.5 mg/m3	Respirable.
Canada Manitoha OFI s (Re	og 217/2006 The Workplace Safety	And Health Act)	
•	g. 217/2006, The Workplace Safety	•	Form
•	g. 217/2006, The Workplace Safety Type	And Health Act) Value	Form
Components FIBROUS GLASS (CAS		•	Form Inhalable fraction.
Components FIBROUS GLASS (CAS 142844-00-6)	Туре	Value 5 mg/m3	
Components FIBROUS GLASS (CAS 142844-00-6) Canada. Ontario OELs. (Cor	<b>Type</b> TWA	Value 5 mg/m3	
Components  FIBROUS GLASS (CAS 142844-00-6)  Canada. Ontario OELs. (Cor Components  FIBROUS GLASS (CAS	Type  TWA  atrol of Exposure to Biological or C	Value 5 mg/m3 hemical Agents)	Inhalable fraction.
Components FIBROUS GLASS (CAS 142844-00-6)	Type  TWA  atrol of Exposure to Biological or C  Type	Value 5 mg/m3 hemical Agents) Value	Inhalable fraction.
Components  FIBROUS GLASS (CAS 142844-00-6)  Canada. Ontario OELs. (Cor Components  FIBROUS GLASS (CAS 142844-00-6)	Type  TWA  Itrol of Exposure to Biological or C  Type  TWA	Value 5 mg/m3 hemical Agents) Value  0.5 fibers/ml 5 mg/m3	Inhalable fraction.  Form  Respirable fibers.  Inhalable fraction.
Components  FIBROUS GLASS (CAS 142844-00-6)  Canada. Ontario OELs. (Cor Components  FIBROUS GLASS (CAS 142844-00-6)  Canada. Quebec OELs. (Min	Type  TWA  atrol of Exposure to Biological or C  Type	Value 5 mg/m3 hemical Agents) Value  0.5 fibers/ml 5 mg/m3	Inhalable fraction.  Form  Respirable fibers.  Inhalable fraction.
Components  FIBROUS GLASS (CAS 142844-00-6)  Canada. Ontario OELs. (Cor Components  FIBROUS GLASS (CAS 142844-00-6)  Canada. Quebec OELs. (Min Components  FIBROUS GLASS (CAS	Type  TWA  Itrol of Exposure to Biological or C Type  TWA  TWA  Iistry of Labor - Regulation Respec	Value 5 mg/m3 hemical Agents) Value  0.5 fibers/ml 5 mg/m3 ting the Quality of the Work Env	Inhalable fraction.  Form  Respirable fibers.  Inhalable fraction.  vironment)
Components  FIBROUS GLASS (CAS 142844-00-6)  Canada. Ontario OELs. (Cor Components  FIBROUS GLASS (CAS 142844-00-6)  Canada. Quebec OELs. (Min Components  FIBROUS GLASS (CAS	Type  TWA  Itrol of Exposure to Biological or C Type  TWA  Iistry of Labor - Regulation Respect	Value 5 mg/m3 hemical Agents) Value  0.5 fibers/ml 5 mg/m3 ting the Quality of the Work Env	Inhalable fraction.  Form  Respirable fibers.  Inhalable fraction.  vironment) Form
Components  FIBROUS GLASS (CAS 142844-00-6)  Canada. Ontario OELs. (Cor Components  FIBROUS GLASS (CAS 142844-00-6)	Type  TWA  Itrol of Exposure to Biological or C Type  TWA  Iistry of Labor - Regulation Respect	Value 5 mg/m3 hemical Agents) Value  0.5 fibers/ml 5 mg/m3 ting the Quality of the Work Env	Inhalable fraction.  Form  Respirable fibers.  Inhalable fraction.  vironment) Form  Fiber.

Material name: INSWOOL PUMPABLE 5820 Version #: 01 Issue date: 05-18-2017

#### **Exposure guidelines**

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.

# 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

**Eye/face protection** If contact is likely, safety glasses with side shields are recommended.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.Other Use of an impervious apron is recommended.

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.







# 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

#### **Appearance**

Physical state Solid.
Form Solid.

Color Not available.

Odor Not available.

Odor threshold 0

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

range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressureNot available.Vapor densityNot available.Relative density2.6 g/cm3

Solubility(ies)

Solubility (water) 0

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

**Explosive properties** Not explosive.

Flammability 0

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.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Fluorine. Chlorine.

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 effects

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

Canada - Alberta OELs: Irritant

FIBROUS GLASS (CAS 142844-00-6) Irritant

**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.

**ACGIH Carcinogens** 

FIBROUS GLASS (CAS 142844-00-6)

A2 Suspected human carcinogen.

Canada - Alberta OELs: Carcinogen category

FIBROUS GLASS (CAS 142844-00-6) Suspected human carcinogen.

Material name: INSWOOL PUMPABLE 5820 Version #: 01 Issue date: 05-18-2017

Canada - Manitoba OELs: carcinogenicity

FIBROUS GLASS (CAS 142844-00-6) Suspected human carcinogen.

Canada - Quebec OELs: Carcinogen category

FIBROUS GLASS (CAS 142844-00-6) Detected carcinogenic effect in animals.

IARC Monographs. Overall Evaluation of Carcinogenicity

FIBROUS GLASS (CAS 142844-00-6) 2B Possibly carcinogenic to humans.

SILICA, AMORPHOUS, FUMED (CAS 7631-86-9) 3 Not classifiable as to carcinogenicity to humans.

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

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 this product.

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 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

**TDG** 

Not regulated as dangerous goods.

**IATA** 

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

Canadian regulations

**Controlled Drugs and Substances Act** 

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

**Greenhouse Gases** 

Not listed.

**Precursor Control Regulations** 

Not regulated.

International regulations

#### **Stockholm Convention**

Not applicable.

#### **Rotterdam Convention**

Not applicable.

# **Kyoto protocol**

Not applicable.

#### **Montreal Protocol**

Not applicable.

#### **Basel Convention**

Not applicable.

#### **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
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

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory \*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).

Issue date 05-18-2017

Version #

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** Composition / Information on Ingredients: Additional Components

Physical & Chemical Properties: Multiple Properties

Material name: INSWOOL PUMPABLE 5820 Version #: 01 Issue date: 05-18-2017 No

<sup>16.</sup> Other information