## SAFETY DATA SHEET



#### 1. Identification

**Product identifier** INSWOOL-HP BLANKETS 4LB, 6LB, 8LB, 10LB, 12LB

Other means of identification

**Brand Code** 5826, 5827, 5828, 5824, 5825

For Industrial Use Only Recommended use

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

HarbisonWalker International Company name

1305 Cherrington Parkway, Suite 100 **Address** 

> Moon Township Pennsylvania 15108

US

Telephone General Phone: 412-375-6600

Website www.thinkHWI.com Not available. **Emergency phone number** Not available. Supplier

2. Hazard identification

Physical hazards Not classified.

**Health hazards** Carcinogenicity Category 1A

> Specific target organ toxicity, repeated Category 1

exposure

**Environmental hazards** Not classified.

Label elements



Signal word Danger

May cause cancer. Causes damage to organs through prolonged or repeated exposure. **Hazard statement** 

**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. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective

clothing/eye protection/face protection.

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

Store locked up. Storage

**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** 

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Common name and synonyms **CAS** number % **Chemical name** FIBROUS GLASS Refractory Ceramic Fiber/Fibre (RCF) 142844-00-6 80 - 100 High Temperature Insulation Wool (HTIW ) Synthetic Vitreous Fiber (SVF)

Man-Made Mineral Fiber (MMMF) Man-Made Vitreous Fiber (MMVF) Alumino Silicate Wool (ASW)

**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

Prolonged exposure may cause chronic effects.

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. If you feel unwell, seek medical advice (show the label where possible).

#### 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing

Use fire-extinguishing media appropriate for surrounding materials.

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 The product is immiscible with water and will sediment in water systems. 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. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

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

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# 8. Exposure controls/personal protection

## **Occupational exposure limits**

| Components  | cupational Health & Safety Code, Schedul<br>Type  | 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<br>Safety Regulation 296/97, | OELs. (Occupational Exposure Limits for as amended)   | Chemical Substances, Oc             | cupational Health and |
| Components  | Туре  | Value                               | Form                  |
| FIBROUS GLASS (CAS<br>142844-00-6)                    | TWA   | 0.2 fibers/cm3                      | Fiber.                |
|   |   | 5 mg/m3                             | Inhalable fibers.     |
|   | Reg. 217/2006, The Workplace Safety And   |                                     | _                     |
| Components  | Туре  | Value                               | Form                  |
| FIBROUS GLASS (CAS<br>142844-00-6)                    | TWA   | 5 mg/m3                             | Inhalable fraction.   |
| Canada. Ontario OELs. (C Components                   | ontrol of Exposure to Biological or Chemic<br>Type  | cal Agents)<br>Value                | Form                  |
| FIBROUS GLASS (CAS<br>142844-00-6)                    | TWA   | 0.5 fibers/cc                       | Respirable fibers.    |
|   |   | 5 mg/m3                             | Inhalable fraction.   |
| Canada. Quebec OELs. (M<br>Components                 | linistry of Labor - Regulation respecting of<br>Type  | ccupational health and saf<br>Value | ety)<br>Form          |
| FIBROUS GLASS (CAS<br>142844-00-6)                    | TWA   | 1 fibers/cm3n                       | Fiber.                |
|   |   | 10 mg/m3                            | fibers, total dust    |
| Canada. Saskatchewan Ol<br>Components                 | ELs (Occupational Health and Safety Regu<br>Type  | ulations, 1996, Table 21)<br>Value  | Form                  |
| FIBROUS GLASS (CAS 142844-00-6)                       | 15 minute   | 10 mg/m3                            | Inhalable fraction.   |
|   | 8 hour  | 0.2 fibers/cc                       | Respirable fibers.    |
|   |   | 5 mg/m3                             | Inhalable fraction.   |
| logical limit values                                  | No biological exposure limits noted for the   | e ingredient(s).                    |                       |
| osure 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 toxicolog 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 |                                     |                       |
| propriate engineering                                 | evaluation of occupational exposure limits workplace is best performed, on a case-b   | by-case basis, by a qualified       | Industrial Hygienist. |

#### 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. Use of an impervious apron is recommended. Other

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

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

White Fibrous Wool **Appearance** 

Solid. Physical state Solid Solid. **Form** Color Not available. Odor Not available. Not available. Odor threshold Not available. рH 3200 °F (1760 °C) Melting point/freezing point

Initial boiling point and boiling

range

Not available.

Not available. Flash point **Evaporation rate** Not available. Not available. Flammability (solid, gas) 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 pressure Not available. Not available. Vapor density

2.5 - 2.75 Relative density

Solubility(ies)

Insoluble Solubility (water) Solubility (other) Insoluble Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. Not available. **Viscosity** 

Other information

**Explosive properties** Not explosive. Not oxidizing. Oxidizing properties

#### 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 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 effects

**Acute toxicity** Not known.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

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.

May cause cancer. Carcinogenicity

**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.

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.

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

Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be

harmful. Prolonged exposure may cause chronic effects.

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#### 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 considerations

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

**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 This product has been classified in accordance with the hazard criteria of the HPR and the SDS

contains all the information required by the HPR.

**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 regionInventory nameOn inventory (yes/no)\*AustraliaAustralian Inventory of Chemical Substances (AICS)YesCanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)No

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| Country(s) or region | Inventory name   | On inventory (yes/no)* |
|----------------------|--|------------------------|
| China                | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe               | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes                    |

European List of Notified Chemical Substances (ELINCS) Europe No Inventory of Existing and New Chemical Substances (ENCS) Japan Yes Korea Existing Chemicals List (ECL) Yes New Zealand New Zealand Inventory Yes Philippines Yes

Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI) Yes United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

#### 16. Other information

01-18-2018 Issue date 05-18-2021 **Revision date** 

Version # 02

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

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

contractual relationship.

Product and Company Identification: Product and Company Identification **Revision information** 

Hazard identification: Prevention Hazard identification: Response

Composition / Information on Ingredients: After Reaction Composition Composition/information on ingredients: Composition comments Composition/information on ingredients: Component information

Accidental release measures: Personal precautions, protective equipment and emergency

procedures

Accidental release measures: Methods and materials for containment and cleaning up Handling and storage: Conditions for safe storage, including any incompatibilities

Exposure controls/personal protection: Exposure guidelines

Stability and reactivity: Conditions to avoid

Ecological information: Persistence and degradability Regulatory information: International regulations

GHS: Classification

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<sup>\*</sup>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).