

SAFETY DATA SHEET

1. Identification

Product identifier	INSWOOL 2600 MOLDABLE
Other means of identification	
Brand Code	672C
Recommended use	For Industrial Use Only
Recommended restrictions	Avoid dry cutting, blasting, or dust generation.
Manufacturer/Importer/Supplier/I	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	Category 1A
	Specific target organ toxicity, repeated exposure	Category 1
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	

Label elements



Signal word	Danger
Hazard statement	May cause cancer. Causes 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. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If exposed or concerned: Get medical advice/attention.
Storage	Not available.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	Users should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Overexposure to the respirable dust of crystalline silica (quartz or cristobalite, less than or equal to 5 microns in size) may lead to silicosis in humans, which is a progressive and irreversible lung disease. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Aluminium Oxide (Non-Fibrous)		1344-28-1	10 - 25

Chemical name	Common name and synonyms	CAS number	%
Amorphous Silica	Fumed Silica Silica, crystalline free	7631-86-9	2.5 - 10
Quartz (SiO2)		14808-60-7	2.5 - 10
Rutile (TiO2)		1317-80-2	2.5 - 10
Zircon		14940-68-2	2.5 - 10
Other components below reportable levels			60 - 80

Other components below reportable levels

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 media	Use fire-extinguishing media appropriate for surrounding materials. 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. Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. When using, do not eat, drink or

smoke. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the Conditions for safe storage, SDS). including any incompatibilities

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. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Quartz (SiO2) (CAS 14808-60-7)	PEL	0.05 mg/m3	Respirable dust.
Rutile (TiO2) (CAS 1317-80-2)	PEL	15 mg/m3	Total dust.
Zircon (CAS 14940-68-2)	PEL	5 mg/m3	
US. OSHA Table Z-3 (29 CF Components	R 1910.1000) Type	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
Amorphous Silica (CAS 7631-86-9)	TWA	0.8 mg/m3	
		20 mppcf	
Quartz (SiO2) (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.
,		2.4 mppcf	Respirable.
US. ACGIH Threshold Limit Components	t Values Type	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.
Quartz (SiO2) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Rutile (TiO2) (CAS 1317-80-2)	TWA	10 mg/m3	
Zircon (CAS 14940-68-2)	STEL	10 mg/m3	
	TWA	5 mg/m3	
US. NIOSH: Pocket Guide t	o Chemical Hazards		
Components	Туре	Value	Form
Amorphous Silica (CAS 7631-86-9)	TWA	6 mg/m3	
Quartz (SiO2) (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
Zircon (CAS 14940-68-2)	STEL	10 mg/m3	
	TWA	5 mg/m3	
ogical limit values	No biological exposure limits noted	for the ingredient(s).	
osure guidelines	Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled. Occupational exposure to nuisance dust (total and respirable and respirable crystalline silica should be monitored and controlled. Occupational Exposure Limits are not relevant to the current physical form of the product. Zirconium silicates (zircon sands) contain trace amounts (106-120 pCi/g) of naturally occurring radioactive uranium and thorium. Overexposure by inhalation to respirable dust containing uranium and thorium may cause lung cancer. Eye contact with the dust may cause eye irritation Measurements made by Dupont during the use of a similar mineral sand indicated the observance of the 5 mg/m3 OSHA PEL for respirable dust and/or the PEL for quartz ensures the user is below the exposure limits established for uranium and thorium. No LD50 or LC50 can be found for zircom		
propriate engineering trols	sand. Good general ventilation (typically should be matched to conditions. If or other engineering controls to ma exposure limits have not been esta	applicable, use process enclosur intain airborne levels below recon	es, local exhaust ventilatior nmended exposure limits. If

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Wear appropriate thermal protective clothing, when necessary.

Skin protection

Hand protection

Other

Wear appropriate chemical resistant gloves.

exceeding the exposure limits.

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels

Respiratory protection

Thermal hazards



General hygiene considerations

Annearance

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	Paste.
Color	Not available.
Odor	Not available.
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 expl	osive 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

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	Acids. Powerful oxidizers. Chlorine. Fluorine. 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	No adverse effects due to inhalation are expected.
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

Skin corrosion/irritationProlonged skin contact may cause temporary irritation.Serious eye damage/eye irritationDirect contact with eyes may cause temporary irritation.Respiratory or skin sensitizationDirect contact with eyes may cause temporary irritation.Respiratory sensitizationNot a respiratory sensitizer.Skin sensitizationNot a respiratory sensitizer.Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.CarcinogenicityIn 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust in guarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer environal in the ceramic industry). There on 000 the order of silicosis will also reduce the cancer
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Respiratory sensitizationNot a respiratory sensitizer.Skin sensitizationThis product is not expected to cause skin sensitization.Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.CarcinogenicityIn 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis will also reduce the cancer
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risk" (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. May cause cancer. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.
IARC Monographs. Overall Evaluation of Carcinogenicity
Amorphous Silica (CAS 7631-86-9)3 Not classifiable as to carcinogenicity to humans.Quartz (SiO2) (CAS 14808-60-7)1 Carcinogenic to humans.Rutile (TiO2) (CAS 1317-80-2)2B Possibly carcinogenic to humans.OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)
Quartz (SiO2) (CAS 14808-60-7) Cancer US. National Toxicology Program (NTP) Report on Carcinogens
Quartz (SiO2) (CAS 14808-60-7) Known To Be Human Carcinogen.
Reproductive toxicity This product is not expected to cause reproductive or developmental effects.
Developmental effects 0 Quartz (SiO2) 0 Developmental effects - EU category 0 Quartz (SiO2) 0

Embryotoxicity Quartz (SiO2)	0
Reproductivity Quartz (SiO2)	0
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 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 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.

ΙΑΤΑ

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

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. 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 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)

Quartz (SiO2) (CAS 14808-60-7)

Cancer lung effects immune system effects kidney effects

	ardous substance			
Not listed. SARA 311/312 Hazardous chemical	s Yes			
Classified hazard categories	Carcinogenicity Specific target org	an toxicity (single or repeat	ed exposure)	
SARA 313 (TRI reporting)				
Chemical name		CAS number	% by wt.	
Aluminium Oxide (Non	-Fibrous)	1344-28-1	10 - 25	
Other federal regulations				
Clean Air Act (CAA) Secti	ion 112 Hazardous Air	r Pollutants (HAPs) List		
Not regulated. Clean Air Act (CAA) Secti	ion 112(r) Accidental I	Release Prevention (40 Cl	FR 68.130)	
Not regulated.				
Safe Drinking Water Act (SDWA)	Not regulated.			
US state regulations				
California Proposition 65				
		se you to chemicals includir cer. For more information g		
California Proposition	n 65 - CRT: Listed dat	e/Carcinogenic substanc	e	
Quartz (SiO2) (CA Rutile (TiO2) (CAS Titanium Dioxide (US. California. Candio subd. (a))	S 1317-80-2) (CAS 13463-67-7)	Listed: Octobe Listed: Septer Listed: Septer Safer Consumer Products	mber 2, 2011 mber 2, 2011	le Regs, tit. 22, 69502.3,
Quartz (SiO2) (CA Rutile (TiO2) (CAS				
International Inventories				
Country(s) or region	Inventory name			On inventory (yes/no)*
Country(s) or region Australia	-	ry of Chemical Substances	(AICS)	
	-	•	(AICS)	Yes
Australia	Australian Invento Domestic Substan	•	(AICS)	Yes
Australia Canada	Australian Invento Domestic Substan Non-Domestic Sub	ces List (DSL)		Yes Yes No
Australia Canada Canada	Australian Invento Domestic Substan Non-Domestic Sub Inventory of Existin	ces List (DSL) ostances List (NDSL) ng Chemical Substances in ry of Existing Commercial C	China (IECSC)	Yes Yes No Yes
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Australia Canada Canada China Europe Europe Japan Korea	Australian Inventor Domestic Substan Non-Domestic Sub Inventory of Existin European Inventor Substances (EINE European List of N Inventory of Existin Existing Chemicals New Zealand Inve	ces List (DSL) ostances List (NDSL) ng Chemical Substances in ry of Existing Commercial C CS) lotified Chemical Substance ng and New Chemical Subs s List (ECL)	China (IECSC) Chemical es (ELINCS) stances (ENCS)	On inventory (yes/no)* Yes Yes No Yes No No Yes Yes Yes Yes
Australia Canada Canada China Europe Europe Japan Korea New Zealand	Australian Inventor Domestic Substan Non-Domestic Sub Inventory of Existin European Inventor Substances (EINE European List of N Inventory of Existin Existing Chemicals New Zealand Inve Philippine Inventor (PICCS)	ces List (DSL) ostances List (NDSL) ng Chemical Substances in ry of Existing Commercial C CS) lotified Chemical Substance ng and New Chemical Subs s List (ECL) ntory	China (IECSC) Chemical es (ELINCS) stances (ENCS) cal Substances	Yes Yes No Yes No Yes Yes 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	06-23-2017
Revision date	01-20-2020
Version #	02

	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.