# SAFETY DATA SHEET



#### 1. Identification

Product identifier

'SAIRSET

Other means of identification

Brand Code

5006, 421A, 114i, 141i

Recommended use

For Industrial Use Only

Recommended restrictions

Avoid dry cutting, blasting, or dust generation. Users should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required under

applicable regulations.

### 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.thinkHWl.com

Emergency phone number

Not available.

# 2. Hazard(s) identification

Physical hazards

Not classified.

Health hazards

Carcinogenicity

Category 1A Category 1

Specific target organ toxicity, repeated

exposure

**Environmental hazards** 

OSHA defined hazards

Not classified.

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

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.

Supplemental information

None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Mullite	•	1302-93-8	30 - 50
Cristobalite		14464-46-1	10 - 25
Quartz (SiO2)		14808-60-7	10 - 25

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SDS US

Chemical name	Common name and synonyms	CAS number	%
Kaolin		1332-58-7	2.5 - 10
Silicic Acid, Sodium Salt		1344-09-8	2.5 - 10
Other components below reportable levels			20 - 40

Crystalline silica may be present at low concentrations; most of this is encapsulated in the coarse aggregate or as part of the clays or sands.

### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Wash off with soap and water. Get medical attention if irritation develops and persists. Skin contact

Prolonged exposure may cause chronic effects.

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

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important

Indication of immediate

symptoms/effects, acute and

delayed

Provide general supportive measures and treat symptomatically. Keep victim under observation.

medical attention and special Symptoms may be delayed, treatment needed

General information IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice

Use fire-extinguishing media appropriate for surrounding materials.

(show the label where possible).

### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Not available. Not applicable.

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters Not available.

### Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spiil/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.

Conditions for safe storage, including any incompatibilities

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

#### 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.

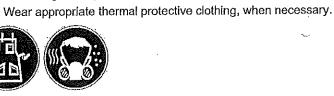
Components	Туре	Value	Form
Cristobalite (CAS 14464-46-1)	PEL	0.05 mg/m3	Respirable dust.
Kaolin (CAS 1332-58-7)	PEL	5 mg/m3 15 mg/m3	Respirable fraction. Total dust.

Components	Туре	Value	Form
Quartz (SiO2) (CAS 14808-60-7)	PEL	0.05 mg/m3	Respirable dust.
US. OSHA Table Z-3 (29 C Components	FR 1910.1000) Type	Value	Form
Cristobalite (CAS	TWA	0.05 mg/m3	Respirable.
14464-46-1)		1.2 mppcf	Respirable,
Kaolin (CAS 1332-58-7)	TWA	5 mg/m3	Respirable fraction.
,		15 mg/m3	Total dust.
•		50 mppcf	Total dust.
,		15 mppcf	Respirable fraction.
Quartz (SiO2) (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.
.,,,,		2.4 mppcf	Respirable.
US. ACGIH Threshold Lim Components	iit Values Type	Value	Form
Cristobalite (CAS 14464-46-1)	TWA	0.025 mg/m3	Respirable fraction.
Kaolin (CAS 1332-58-7)	TWA	2 mg/m3	Respirable fraction.
Mullite (CAS 1302-93-8)	TWA	1 mg/m3	Respirable fraction.
Quartz (SiO2) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
US, NIOSH: Pocket Guide		<b>14</b> 1	Form
Components	Type	Value	
Cristobalite (CAS 14464-46-1)	TWA	0.05 mg/m3	Respirable dust.
Kaolin (CAS 1332-58-7)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Quartz (SiO2) (CAS 14808-60-7)	TWA .	0.05 mg/m3	Respirable dust.
ogical limit values	No biological exposure limits noted for the ingr	edient(s).	
osure guidelines	Occupational exposure to nuisance dust (total should be monitored and controlled. Occupation and respirable crystalline silica should be mon Occupational Exposure Limits are not relevant	onal exposure to nuisa itored and controlled. to the current physica	nce dust (total and respirab I form of the product.
ropriate engineering trols	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.		
/idual protection measure Eye/face protection	s, such as personal protective equipment Wear safety glasses with side shields (or gogg	les).	
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 the exceeding the exposure limits.	re is a risk of exposure	e to dust/fume at levels
		uhan naassant	

Thermal hazards







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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. Paste.

Color

Not available.

Odor Odor threshold

Not available. Not available.

рΗ

Melting point/freezing point

Not available.

Not available. Not available.

Initial boiling point and boiling

range

Not available.

Flash point **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 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.

Possibility of hazardous

reactions Conditions to avoid

Contact with incompatible materials.

Incompatible materials

Powerful oxidizers. 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.

No dangerous reaction known under conditions of normal use.

### 11. Toxicological information

Information on likely routes of exposure

Inhalation

No adverse effects due to inhalation are expected.

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SDS US 4/7 Skin contact

No adverse effects due to skin contact are expected.

Eye contact Ingestion

Direct contact with eyes may cause temporary irritation. 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

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

In 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 exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer 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

Cristobalite (CAS 14464-46-1)

1 Carcinogenic to humans.

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

1 Carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Cristobalite (CAS 14464-46-1)

Cancer Cancer

Quartz (SiO2) (CAS 14808-60-7) US, National Toxicology Program (NTP) Report on Carcinogens

Cristobalite (CAS 14464-46-1)

Known To Be Human Carcinogen.

Reasonably Anticipated to be a Human Carcinogen.

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** 

Quartz (SiO2) Developmental effects - EU category

Quartz (SiO2)

n

Embryotoxicity

Quartz (SiO2)

Reproductivity

Quartz (SiO2)

Specific target organ toxicity single exposure

Not classified.

Causes damage to organs through prolonged or repeated exposure.

Specific target organ toxicity repeated exposure

Aspiration hazard Chronic effects

Causes damage to organs through prolonged or repeated exposure. Prolonged exposure may

cause chronic effects.

Not an aspiration hazard.

Material name; 'SAIRSET

### 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. Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

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

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 to Annex II of MARPOL 73/78 and

Not applicable.

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)

Cancer Cristobalite (CAS 14464-46-1) Quartz (SiO2) (CAS 14808-60-7) Cancer Cristobalite (CAS 14464-46-1) lung effects Quartz (SiO2) (CAS 14808-60-7) lung effects

immune system effects Cristobalite (CAS 14464-46-1) immune system effects Quartz (SiO2) (CAS 14808-60-7)

kidney effects Cristobalite (CAS 14464-46-1) kidney effects Quartz (SiO2) (CAS 14808-60-7)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

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Classified hazard

Carcinogenicity

categories

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

Not regulated.

(SDWA)

#### US state regulations

#### California Proposition 65



WARNING: This product can expose you to chemicals including Quartz (SiO2); Quartz (SiO2); Quartz (SiO2).

which is known to the State of California to cause cancer. For more information go

to www.P65Warnings.ca.gov.

### California Proposition 65 - CRT: Listed date/Carcinogenic substance

Inventory name

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

Listed: October 1, 1988

Titanium Dioxide (CAS 13463-67-7) Listed: September 2, 2011 US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502,3.

subd. (a))

Cristobalite (CAS 14464-46-1) Quartz (SiO2) (CAS 14808-60-7)

#### International Inventories

Country(s) or region

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Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
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)	Yes
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	Yes

<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).

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

Issue date 06-01-2015 Revision date 03-21-2022

Version #

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 Codes Revision Information

Composition / Information on Ingredients: Ingredients

Ecological Information: Ecotoxicity

Transport Information: Material Transportation Information

GHS: Classification

Material name: 'SAIRSET

On inventory (ves/no)\*