Issue date: 07-May-2017 Version number: 01



# SAFETY DATA SHEET

## 1. Identification

Product identifier 'SAIRSET

Other means of identification

**Brand Code** 5006, 421A, 114i, 141i

Recommended use of the chemical and restrictions on use

**Recommended use** For Industrial Use Only

**Restrictions on use**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

Category 1A

material should be provided as required under applicable regulations.

**Manufacturer** PT Harbison Walker International

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Indonesia

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# 2. Hazard(s) identification

Classification of the hazardous chemical

**Physical hazards** Not classified. **Health hazards** Carcinogenicity

**Environmental hazards** Not classified.

Label elements, including precautionary statements

Hazard symbol(s)



Health hazard

Signal word Danger

**Hazard Statement(s)** May cause cancer.

Precautionary Statement(s)

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

and understood. Use personal protective equipment as required.

**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 which do not result in classification

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

## **Mixture**

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
Mullite	1302-93-8	30 - < 40

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Cristobalite	14464-46-1	10 - < 20
Quartz (SiO2)	14808-60-7	10 - < 20
Aluminium Oxide (Non-Fibrous)	1344-28-1	< 0.1
Other components below reportable levels		30 - < 40

### 4. First-aid measures

# **Description of necessary 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.

Personal protection for first-aid responders

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.

Symptoms caused by

exposure

treatment

Direct contact with eyes may cause temporary irritation.

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

# 5. Fire-fighting measures

**Medical attention and special** 

#### **Extinguishing media**

Suitable extinguishing

media

Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing** 

media

Not available.

Specific hazards arising from

the chemical

Not available.

**Special protective equipment** 

and precautions for fire

fighters

Not available.

Hazchem Code None.

#### 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

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.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

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.

#### 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. Do not breathe dust. Should be handled in closed systems, if possible. 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 and personal protection

**Control parameters** Follow standard monitoring procedures.

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#### **Occupational exposure limits**

Components	rkplace OELs (Workplace Exposure St Type	Value	Form
Cristobalite (CAS 14464-46-1)	TWA	0.1 mg/m3	Respirable dust.
Quartz (SiO2) (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable dust.
Australia. OELs. (Adoptenvironment)	ted National Exposure Standards for A	tmospheric Contaminants in	n the Occupational
Components	Туре	Value	
Cristobalite (CAS 14464-46-1)	TWA	0.1 mg/m3	
Quartz (SiO2) (CAS 14808-60-7)	TWA	0.1 mg/m3	
US. ACGIH Threshold L			F
Components	Туре	Value	Form
Cristobalite (CAS 14464-46-1)	TWA	0.025 mg/m3	Respirable fraction.
Quartz (SiO2) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
UK. EH40 Workplace E	xposure Limits (WELs)		
Components	Туре	Value	Form
Cristobalite (CAS 14464-46-1)	TWA	1 fibers/mL	Fiber.
		5 mg/m3	Fiber.
		0.1 mg/m3	Respirable.
Quartz (SiO2) (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.
logical limit values	No biological exposure limits noted for the ingredient(s).		
osure guidelines	Occupational exposure to nuisance d be monitored and controlled. Occupa respirable crystalline silica should be Occupational Exposure Limits are not	tional exposure to nuisance dus monitored and controlled.	t (total and respirable) and
	College and the college and th	• •	•

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, for example personal protective equipment (PPE)

**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.









## **Hygiene measures**

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.
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Material name: 'SAIRSET SDS AUSTRALIA

**Form** Solid. Paste. Colour Not available. Odour Not available. **Odour threshold** Not available. Not available. pН Not available. Melting point/freezing point Not available. Initial boiling point and

boiling 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 -

Not available.

upper (%)

**Explosive limit - lower** 

Not available.

(%)

**Explosive limit – upper** 

(%)

Not available.

Vapour pressure Not available. Not available. Vapour density Not available. **Relative density** 

Solubility(ies)

Not available. Solubility (water) **Partition coefficient** Not available.

(n-octanol/water)

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. Not available. **Viscosity** Other physical and chemical parameters **Explosive properties** Not explosive.

**Oxidising properties** Not oxidising.

## 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** 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.

## 11. Toxicological information

## Information on possible 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.

Material name: 'SAIRSET SDS AUSTRALIA Symptoms related to

exposure

Direct contact with eyes may cause temporary irritation.

**Acute toxicity** Not known.

Skin corrosion/irritation

Serious eve

Prolonged skin contact may cause temporary irritation. Direct contact with eves may cause temporary irritation.

damage/irritation

Respiratory or skin sensitisation

**Respiratory sensitisation** Not a respiratory sensitizer.

Skin sensitisation

This product is not expected to cause skin sensitisation.

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 Dox 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.

#### **ACGIH Carcinogens**

Cristobalite (CAS 14464-46-1) A2 Suspected human carcinogen. Quartz (SiO2) (CAS 14808-60-7) A2 Suspected human carcinogen.

## 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.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects

**Developmental effects** 

Quartz (SiO2) n **Developmental effects - EU category** Quartz (SiO2) n **Embryotoxicity** Quartz (SiO2) n Reproductivity Quartz (SiO2) n

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 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 for this product.

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.

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## 13. Disposal considerations

#### **Disposal methods**

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.

## 14. Transport information

#### **ADG**

Not regulated as dangerous goods.

#### RID

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

# Safety, health and environmental regulations

**National regulations** 

This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals (23/12/2011).

#### **Australia Medicines & Poisons Appendix A**

GLASS (INCLUDING CRYSTAL WARE) (CAS 14464-46-1)

#### **High Volume Industrial Chemicals (HVIC)**

Cristobalite (CAS 14464-46-1)

10000 - 99999 TONNES See the regulation for additional

information.

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

100000 - 999999 TONNES See the regulation for additional

information.

## Importation of Ozone Deleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10)

Not listed.

# National Pollutant Inventory (NPI) substance reporting list

Not listed.

#### **Prohibited Carcinogenic Substances**

Not regulated.

Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)

Not listed

#### Resricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

Not listed.

# **Restricted Carcinogenic Substances**

Not regulated.

# International regulations

## **Stockholm Convention**

Not applicable.

#### **Rotterdam Convention**

Not applicable.

#### **Kyoto protocol**

Not applicable.

## **Montreal Protocol**

Not applicable.

#### **Basel Convention**

Not applicable.

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# International Inventories Country(s) or region

Country(s) or region	Threntoly hame	On inventory (yes/no)
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
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

**Issue date** 07-May-2017

**Disclaimer** This information is based on our present knowledge on creation date. However, this shall no

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

Composition / Information on Ingredients: Ingredients

Ecological Information: Ecotoxicity

Transport Information: Material Transportation Information

GHS: Classification

Inventory name

Material name: 'SAIRSET SDS AUSTRALIA

On inventory (yes/no)\*