# SAFETY DATA SHEET



# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or THOR AZS-PT ADTECH

designation of the mixture

**Registration number** 

**Synonyms** None. **Brand Code** 0108, 458C

**Issue date** 15-November-2016

**Version number** 

1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** For Industrial Use Only

Uses advised against 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.

#### 1.3. Details of the supplier of the safety data sheet

Supplier

**Company name** HarbisonWalker International Limited

**Address** Dock Road South

Bromborough

Wirral UK

**Division** United Kingdom

44.(0)151.641.5900 **Telephone** General Phone:

e-mail REACH@thinkhwi.com

**HWI USA Contact person** 

1.4. Emergency telephone +44 (0)151 641 5900 (Office hours 07:30 - 17:00)

### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Exposure to powder or dusts may be irritating to eyes, nose and throat. Prolonged exposure may **Hazard summary** 

cause chronic effects. Not classified for health hazards. However, occupational exposure to the

mixture or substance(s) may cause adverse health effects.

#### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

**Hazard pictograms** None. Signal word None.

**Hazard statements** The mixture does not meet the criteria for classification.

**Precautionary statements** 

**Prevention** Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

Supplemental label

Users should be informed of the potential presence of respirable dust and respirable crystalline information 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.

2.3. Other hazards None known.

Material name: THOR AZS-PT ADTECH SDS UK

### **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### **General information**

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Aluminium Oxide (Non-Fibrous)	2.5 - 10	1344-28-1 215-691-6	01-2119529248-35-0134	-	
Classification: -					
Cement, Alumina, Chemicals	2.5 - 10	65997-16-2 266-045-5	-	-	
Classification: -					

Other components below reportable levels 80 - 90

# List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

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

#### **SECTION 4: First aid measures**

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

4.1. Description of 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 Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.

Rinse mouth. Get medical attention if symptoms occur. Ingestion 4.2. Most important Dusts may irritate the respiratory tract, skin and eyes.

symptoms and effects, both

acute and delayed

4.3. Indication of any immediate medical attention

and special treatment

needed

Treat symptomatically.

# **SECTION 5: Firefighting measures**

**General fire hazards** Not available.

5.1. Extinguishing media

Suitable extinguishing

media

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media

Not available.

5.2. Special hazards arising

mixture

Not available.

5.3. Advice for firefighters

from the substance or

Special protective equipment for

Not available.

Special fire fighting

Not available.

procedures

firefighters

#### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during

personnel

clean-up. 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.

#### 6.2. Environmental precautions

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

#### 6.3. Methods and material for containment and cleaning up

Avoid the generation of dusts during clean-up. Collect dust using a vacuum cleaner equipped with HEPA filter. Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal.

#### 6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

### **SECTION 7: Handling and storage**

7.1. Precautions for safe handling

Minimise dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Do not breathe dust. Avoid prolonged exposure. Practice good housekeeping.

7.2. Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

Not available. 7.3. Specific end use(s)

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### Occupational exposure limits

Components	Туре	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Inhalable dust.
Amorphous silica (CAS 7631-86-9)	TWA	6 mg/m3	Inhalable dust.
		2.4 mg/m3	Respirable dust.
Fumes, Silica (CAS 69012-64-2)	TWA	6 mg/m3	Inhalable dust.
		2.4 mg/m3	Respirable dust.
Quartz (SiO2) (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.
Zirconium dioxide (CAS 1314-23-4)	STEL	10 mg/m3	
	TWA	5 mg/m3	

**Biological limit values Recommended monitoring** procedures

No biological exposure limits noted for the ingredient(s).

Follow standard monitoring procedures.

**Derived no effect levels** (DNELs)

Not available.

Predicted no effect concentrations (PNECs) Not available.

#### **Exposure 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.

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. Eve 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 zircon sand

#### 8.2. Exposure controls

Material name: THOR AZS-PT ADTECH

#### **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. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL (occupational exposure limit), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits.

#### Individual protection measures, such as personal protective equipment

**General information** Personal protection equipment should be chosen according to the CEN standards and in discussion

with the supplier of the personal protective equipment.

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection

- Hand protection Wear appropriate chemical resistant gloves.

- Other Wear suitable protective clothing.

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

exceeding the exposure limits.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards







**Hygiene measures** 

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.

**Environmental exposure** 

controls

Environmental manager must be informed of all major releases.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

#### **Appearance**

**Physical state** Solid. Form Powder Colour Not available. Odour Not available. **Odour threshold** Not available. Not available. pН Melting point/freezing point Not available. Initial boiling point and Not available. 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 (%)

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

Solubility(ies)

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

(n-octanol/water)

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

0108, 458C Version #: 01 Issue date: 15-November-2016

**Viscosity** Not available. **Explosive properties** Not explosive. Oxidising properties Not oxidising.

9.2. Other information No relevant additional information available.

# **SECTION 10: Stability and reactivity**

10.1. Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. 10.2. Chemical stability

10.3. Possibility of hazardous No dangerous reaction known under conditions of normal use.

reactions

10.4. Conditions to avoid Contact with incompatible materials.

10.5. Incompatible materials Acids. Powerful oxidizers. Fluorine. Chlorine.

Incompatibility is based strictly upon potential theoretical reactions between chemicals and may not

be specific to industrial application exposure.

No hazardous decomposition products are known.

10.6. Hazardous

decomposition products

# **SECTION 11: Toxicological information**

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

**Inhalation** Dust may irritate respiratory system. Prolonged inhalation may be harmful.

Skin contact Dust or powder may irritate the skin.

**Eye contact** Dust may irritate the eyes.

Ingestion May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

**Symptoms** Dusts may irritate the respiratory tract, skin and eyes.

#### 11.1. Information on toxicological effects

**Acute toxicity** Not known.

Skin corrosion/irritation

Serious eye damage/eye

irritation

Due to partial or complete lack of data the classification is not possible. Due to partial or complete lack of data the classification is not possible.

Respiratory sensitisation Due to partial or complete lack of data the classification is not possible.

Due to partial or complete lack of data the classification is not possible. Skin sensitisation

Germ cell mutagenicity Due to partial or complete lack of data the classification is not possible.

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. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and

controlled. Risk of cancer cannot be excluded with prolonged exposure.

Reproductive toxicity Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity

- single exposure

Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity

- repeated exposure

Due to partial or complete lack of data the classification is not possible.

**Aspiration hazard** Due to partial or complete lack of data the classification is not possible.

Mixture versus substance

information

No information available.

Other information This product has no known adverse effect on human health.

Material name: THOR AZS-PT ADTECH 0108, 458C Version #: 01 Issue date: 15-November-2016

# **SECTION 12: Ecological information**

Based on available data, the classification criteria are not met for hazardous to the aquatic 12.1. Toxicity

environment.

12.2. Persistence and

degradability

No data is available on the degradability of this product.

12.3. Bioaccumulative

potential

No data available.

**Partition coefficient** 

Not available.

n-octanol/water (log Kow)

**Bioconcentration factor (BCF)** Not available. 12.4. Mobility in soil No data available. 12.5. Results of PBT Not available.

and vPvB assessment

12.6. 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.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Residual waste Not available Not available. Contaminated packaging **EU** waste code Not available.

Disposal This product, in its present state, when discarded or disposed of, is not a hazardous waste

methods/information 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

# **SECTION 14: Transport information**

#### **ADR**

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

**IMDG** 

14.1. - 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.

### **SECTION 15: Regulatory information**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

**Authorisations** 

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use

Not regulated.

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP

Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC)

No 1907/2006, as amended.

Follow national regulation for work with chemical agents. **National regulations** 

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

### **SECTION 16: Other information**

List of abbreviations Not available. Not available. References Information on evaluation Not available.

method leading to the classification of mixture

None.

**Full text of any H-statements** not written out in full under

Sections 2 to 15

**Revision information** None.

**Training information** Not available.

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.

Material name: THOR AZS-PT ADTECH