# SAFETY DATA SHEET



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

1.1. Product identifier

Trade name or VERSAFLOW 45/AL ADTECH

designation of the mixture

**Registration number** 

**Synonyms** None.

**Brand Code** 2827, 412B, 793B **Issue date** 14-September-2020

**Version number** 

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

**Identified uses** For Industrial or Professional Use Only

Uses advised against 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.

#### 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

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

e-mail REACH@thinkhwi.com

**HWI USA** Contact person

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

number

#### **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.

Hazard summary Prolonged exposure may 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 in a manner to minimize airborne dust.

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

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 Not a PBT or vPvB substance or mixture.

Material name: VERSAFLOW 45/AL ADTECH

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

#### 3.2. Mixtures

#### **General information**

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Mullite	50 - 70	1302-93-8 215-113-2	-	-	
Classification: -					
Cristobalite	10 - 25	14464-46-1 238-455-4	-	-	#
Classification:					
Cement, Alumina, Chemicals	2.5 - 10	65997-16-2 266-045-5	-	-	
Classification: -					
Other components below reportable levels	10 - 25				

#### 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.

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.

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

**General information** Not available.

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.

Exposure may cause temporary irritation, redness, or discomfort.

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

**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

4.2. Most important 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** No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or

mixture

During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting

procedures

Use water spray to cool unopened containers.

**Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials.

Material name: VERSAFLOW 45/AL ADTECH

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

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

For non-emergency

personnel

Keep unnecessary personnel away. 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

Stop the flow of material, if this is without risk. Following product recovery, flush area with water.

6.4. Reference to other

For waste disposal, see section 13 of the SDS.

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

Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Avoid prolonged exposure.

7.2. Conditions for safe storage, including any incompatibilities

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

SDS).

7.3. Specific end use(s) Not available.

### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

#### **Occupational exposure limits**

<b>UK. EH40</b>	Workplace	<b>Exposure</b>	Limits	(WELs)
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Components	Type	Value	Form
Amorphous silica (CAS 7631-86-9)	TWA	6 mg/m3	Inhalable dust.
		2.4 mg/m3	Respirable dust.
Cristobalite (CAS 14464-46-1)	TWA	1 fibers/mL	Fiber.
		5 mg/m3	Fiber.
		0.1 mg/m3	Respirable.
Fumes, Silica (CAS 69012-64-2)	TWA	6 mg/m3	Inhalable dust.
•		2.4 mg/m3	Respirable dust.
EU. OELs, Directive 2004/37	EC on carcinogen and mutage	ns from Annex III, Part A	
Components	Туре	Value	Form
Cristobalite (CAS 14464-46-1)	TWA	0.1 mg/m3	Respirable fraction and dust

**Biological limit values** 

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

**Recommended monitoring** procedures

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.

### 8.2. Exposure controls

**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, 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).

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Skin protection

- Hand protection Wear appropriate chemical resistant gloves.

- Other Wear suitable protective clothing.

**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

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** Solid.

Colour Not available. Not available. Odour **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 -

upper (%)

Not available.

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

Solubility(ies)

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

(n-octanol/water)

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. Not available. **Viscosity Explosive properties** Not explosive. **Oxidising properties** Not oxidising.

No relevant additional information available. 9.2. Other information

### **SECTION 10: Stability and reactivity**

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

10.2. Chemical stability Material is stable under normal conditions.

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

reactions

10.4. Conditions to avoid Contact with incompatible materials.

Material name: VERSAFLOW 45/AL ADTECH 2827, 412B, 793B Version #: 01 Issue date: 14-September-2020 10.5. Incompatible materials

Chlorine. Fluorine.

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

be specific to industrial application exposure.

10.6. Hazardous decomposition products No hazardous decomposition products are known.

# **SECTION 11: Toxicological information**

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

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

occupational exposure.

**Symptoms** Exposure may cause temporary irritation, redness, or discomfort.

# 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.

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

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

## IARC Monographs. Overall Evaluation of Carcinogenicity

Cristobalite (CAS 14464-46-1) 1 Carcinogenic to humans.

Reproductive toxicity 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.

Specific target organ toxicity - single exposure

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

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

Specific target organ toxicity

- repeated exposure

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

Mixture versus substance

information

No information available.

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

## **SECTION 12: Ecological information**

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

environment.

12.2. Persistence and

degradability

No data is available on the degradability of any ingredients in the mixture.

12.3. Bioaccumulative

potential

No data available.

**Partition coefficient** 

Not available.

n-octanol/water (log Kow)

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**Bioconcentration factor (BCF)** Not available. 12.4. Mobility in soil No data available.

12.5. Results of PBT and

vPvB assessment

Not a PBT or vPvB substance or mixture. Not available.

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** Dispose of in accordance with local regulations. Empty containers or liners may retain some product

residues. This material and its container must be disposed of in a safe manner (see: Disposal

instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

**EU** waste code The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

methods/information

Special precautions Dispose in accordance with all applicable regulations.

### **SECTION 14: Transport information**

#### **ADR**

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

**RID** 

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

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 Not applicable. according to Annex II of

MARPOL 73/78 and the IBC

Code

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

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

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

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, as amended

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, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

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

Cristobalite (CAS 14464-46-1)

### Other EU regulations

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

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 on the protection of workers from the risks of exposure to carcinogens **National regulations** 

and mutagens at work, in accordance with Directive 2004/37/EC.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

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

List of abbreviations Not available. References Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

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

Sections 2 to 15 **Revision information**  None.

Composition / Information on Ingredients: Ingredients

**Training information** 

Follow training instructions when handling this material.

Product and Company Identification: Product and Company Identification

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available.

Material name: VERSAFLOW 45/AL ADTECH