

# SAFETY DATA SHEET

# 1. Identification

Product identifier	VERSAGUN THERMAX ADTECH; VERSAGUN THERMAX ADTECH WF
Other means of identification	
Brand Code	3140, 7423
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.thinkHWI.com		
Emergency phone number	ber Not available.		

# 2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Carcinogenicity	Category 1A
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		



Signal word	Danger
Hazard statement	May cause cancer.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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	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	%
Silica, Vitreous		60676-86-0	60 - 80
Aluminium Oxide (Non-Fibrous)		1344-28-1	10 - 25
Cement, Alumina, Chemicals		65997-16-2	10 - 25

Chemical name	Common name and synonyms	CAS number	%
Fumes, Silica		69012-64-2	2.5 - 10
Kyanite		1302-76-7	2.5 - 10
Quartz (SiO2)		14808-60-7	0.1 - 2.5
Cristobalite		14464-46-1	< 0.5
Other components below r	eportable levels		0.1 - 2.5

Other components below reportable levels

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.
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	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

## 5. Fire-fighting measures

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	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	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
emergency procedures	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	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. Avoid prolonged exposure. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Observe good industrial hygiene

Conditions for safe storage, Store in tightly closed container. Store away from incompatible materials (see Section 10 of the including any incompatibilities 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
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	PEL	5 mg/m3	Respirable fraction.
,		15 mg/m3	Total dust.

practices.

US. OSHA Table Z-1 Limits Components	Туре	Value	Form
Cristobalite (CAS 14464-46-1)	PEL	0.05 mg/m3	Respirable dust.
Quartz (SiO2) (CAS 14808-60-7)	PEL	0.05 mg/m3	Respirable dust.
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.
Cristobalite (CAS 14464-46-1)	TWA	0.05 mg/m3	Respirable.
14404-40-1)		1.2 mppcf	Respirable.
Fumes, Silica (CAS 69012-64-2)	TWA	0.8 mg/m3	
		20 mppcf	
Quartz (SiO2) (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
Silica, Vitreous (CAS 60676-86-0)	TWA	0.8 mg/m3	
		20 mppcf	
US. ACGIH Threshold Limi Components	t Values Type	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.
Cristobalite (CAS 14464-46-1)	TWA	0.025 mg/m3	Respirable fraction.
, Kyanite (CAS 1302-76-7)	TWA	1 mg/m3	Respirable fraction.
Quartz (SiO2) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide t Components	o Chemical Hazards Type	Value	Form
Cristobalite (CAS	TWA	0.05 mg/m3	Respirable dust.
14464-46-1) Fumes, Silica (CAS	TWA	6 mg/m3	
69012-64-2) Quartz (SiO2) (CAS	TWA	0.05 mg/m3	Respirable dust.
14808-60-7) Silica, Vitreous (CAS	TWA	6 mg/m3	
60676-86-0) ogical limit values	No biological exposure limits poted for the	ingradiant(s)	
osure guidelines	No biological exposure limits noted for the ingredient(s). 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.		
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.		

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

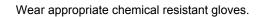
# Skin protection

Hand protection

Other

**Respiratory protection** 

Thermal hazards



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 exceeding the exposure limits.

Wear appropriate thermal protective clothing, when necessary.



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.
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 exp	losive 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	,

# ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.Chemical stabilityMaterial 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. 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

information on likely routes of e	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	Expected to be a low ingestion hazard.		
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may	<i>r</i> cause temporary irritation.	
Information on toxicological eff	ects		
Acute toxicity	Not known.		
Skin corrosion/irritation	Prolonged skin contact may	cause temporary irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may	<i>r</i> cause temporary irritation.	
Respiratory or skin sensitizatio			
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	inhaled from occupational so overall evaluation, IARC not circumstances studied. Carc crystalline silica or on extern polymorphs." (IARC Monog humans, Silica, silicates dus 2003, SCOEL (the EU Scien main effect in humans of the sufficient information to cond silicosis (and, apparently, no in the ceramic industry). The risk" (SCOEL SUM Doc 94 protection against silicosis c occupational exposure limits respirable crystalline silica s	band Agency for Research on Cancer) concluded that crystalline silica burces can cause lung cancer in humans. However in making the ed that "carcinogenicity was not detected in all industrial inogenicity may be dependent on inherent characteristics of the al factors affecting its biological activity or distribution of its raphs on the evaluation of the carcinogenic risks of chemicals to t and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June tific Committee on Occupational Exposure Limits) concluded that the inhalation of respirable crystalline silica dust is silicosis. "There is clude that the relative risk of lung cancer is increased in persons with t in employees without silicosis exposed to silica dust in quarries and erefore, preventing the onset of silicosis will also reduce the cancer I-final, June 2003) According to the current state of the art, worker an be consistently assured by respecting the existing regulatory a. May cause cancer. Occupational exposure to respirable dust and hould be monitored and controlled.	
IARC Monographs. Overall	Evaluation of Carcinogenicit	У	
	12-64-2) 08-60-7) 676-86-0) ed Substances (29 CFR 1910.	<ol> <li>Carcinogenic to humans.</li> <li>Not classifiable as to carcinogenicity to humans.</li> <li>Carcinogenic to humans.</li> <li>Not classifiable as to carcinogenicity to humans.</li> </ol> <b>1001-1052</b> )	
Cristobalite (CAS 14464- Quartz (SiO2) (CAS 148	08-60-7)	Cancer Cancer	
	ogram (NTP) Report on Carci	-	
		Known To Be Human Carcinogen. Reasonably Anticipated to be a Human Carcinogen.	
Quartz (SiO2) (CAS 148		Known To Be Human Carcinogen. to cause reproductive or developmental effects.	
Reproductive toxicity	This product is not expected		
Developmental effects Quartz (SiO2)		0	

Developmental effects -	· EU category	
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	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.	
12 Ecological information		

### 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.

### 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

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 Not regulated. CERCLA Hazardous Substance List (40 CFR 302	,
Not listed. SARA 304 Emergency release notification	
Not regulated. OSHA Specifically Regulated Substances (29 CF	FR 1910.1001-1052)
Cristobalite (CAS 14464-46-1) Quartz (SiO2) (CAS 14808-60-7) Cristobalite (CAS 14464-46-1)	Cancer Cancer lung effects

Quartz (SiO2) (CAS 14808-60-7) Cristobalite (CAS 14464-46-1) Quartz (SiO2) (CAS 14808-60-7) Cristobalite (CAS 14464-46-1) Quartz (SiO2) (CAS 14808-60-7)		lung effects immune syste immune syste kidney effects kidney effects	em effects	
Superfund Amendments and Re SARA 302 Extremely hazard Not listed.		86 (SARA)		
	N			
SARA 311/312 Hazardous chemical	Yes			
Classified hazard categories	Carcinogenicity			
SARA 313 (TRI reporting)				
Chemical name		CAS number	% by wt.	
Aluminium Oxide (Non-F	ibrous)	1344-28-1	10 - 25	
Other federal regulations				
Clean Air Act (CAA) Sectior	n 112 Hazardous Air Pol	llutants (HAPs) List		
Not regulated.				
Clean Air Act (CAA) Section	n 112(r) Accidental Rele	ase Prevention (40 C	FR 68.130)	
Not regulated.				
Safe Drinking Water Act (SDWA)	Not regulated.			
US state regulations				
California Proposition 65				
wr wr		e of California to cause	ng Quartz (SiO2): Quartz (S cancer. For more informati	
California Proposition 6	65 - CRT: Listed date/Ca	arcinogenic substanc	e	
Quartz (SiO2) (CAS Titanium Dioxide (C/ US. California. Candida subd. (a))	AS 13463-67-7)	Listed: Octob Listed: Septer r Consumer Products		Regs, tit. 22, 69502.3,
Cristobalite (CAS 14 Quartz (SiO2) (CAS				
International Inventories				
Country(s) or region	Inventory name			On inventory (yes/no)*
Australia	Australian Inventory of	Chemical Substances	(AICS)	Yes
Canada	Domestic Substances	List (DSL)		Yes
Canada	Non-Domestic Substar	nces List (NDSL)		No
China	Inventory of Existing C	hemical Substances in	China (IECSC)	Yes
Europe	European Inventory of Substances (EINECS)	Existing Commercial C		No
Europe	European List of Notifi	ed Chemical Substanc	es (ELINCS)	No
Japan	Inventory of Existing a	nd New Chemical Subs	stances (ENCS)	No
Korea	Existing Chemicals Lis			Yes
New Zealand	New Zealand Inventor			Yes
Philippines	Philippine Inventory of (PICCS)		cal Substances	No
Taiwan	Taiwan Chemical Subs	stance Inventorv (TCSI	)	Yes
United States & Puerto Rico	Toxic Substances Con			No
*A "Yes" indicates that all compo			-	

\*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

05-11-2015

Revision date Version #	07-14-2021 03
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.
<b>Revision information</b>	This document has undergone significant changes and should be reviewed in its entirety.