# **SAFETY DATA SHEET**



# 1. Identification

Product identifier VISION

Other means of identification

Brand Code 9364

**Recommended use** For Industrial or Professional Use Only

**Recommended restrictions** Avoid dry cutting, blasting, or dust generation.

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

Websitewww.thinkHWl.comEmergency phone numberNot available.SupplierNot available.

#### 2. Hazard identification

#### Classified hazards

This item is defined as an article per OSHA, REACH, and WHMIS and is therefore exempt from labeling. A Safety Data Sheet is available.

This item is not Classified as hazardous. However, individual customer processes (such as grinding, sawing, or blasting) may result in the formation of dust that may present health hazards. Wear protective gloves/protective clothing/eye protection.

#### Label elements

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#### Other hazards

This item is defined as an article per OSHA, REACH, and WHMIS and is therefore exempt from labeling. A Safety Data Sheet is available.

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# 3. Composition/information on ingredients

# **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
ALPHA-ALUMINA		1344-28-1	40 - 60
Mullite		1302-93-8	30 - 50
ZIRCONIUM COMPOUNDS		1314-23-4	20 - 40
SILICA, AMORPHOUS, FUMED	Fumed Silica Silica, crystalline free	7631-86-9	2.5 - 10
ZIRCON		14940-68-2	2.5 - 10

### 4. First-aid measures

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

Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important

symptoms/effects, acute and delayed

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

**General information** 

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media Use fire-extinguishing media appropriate for surrounding materials.

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 emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. 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 get in eyes, on skin, or on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

# Occupational exposure limits

# **US. ACGIH Threshold Limit Values**

Components	Туре	Value	Form
ALPHA-ALUMINA (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.
Mullite (CAS 1302-93-8)	TWA	1 mg/m3	Respirable fraction.
ZIRCON (CAS 14940-68-2)	STEL	10 mg/m3	
	TWA	5 mg/m3	
ZIRCONIUM COMPOUNDS (CAS 1314-23-4)	STEL	10 mg/m3	
	TWA	5 mg/m3	

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Canada. Alberta OELs (Occupatior Components	Type	Value	
ALPHA-ALUMINA (CAS 1344-28-1)	TWA	10 mg/m3	
ZIRCON (CAS 14940-68-2)	STEL	10 mg/m3	
	TWA	5 mg/m3	
ZIRCONIUM COMPOUNDS (CAS 1314-23-4)	STEL	10 mg/m3	
	TWA	5 mg/m3	
Canada. British Columbia OELs. (C Safety Regulation 296/97, as amen		s for Chemical Substances, O	-
Components	Туре	Value	Form
ALPHA-ALUMINA (CAS 1344-28-1)	TWA	1 mg/m3	Respirable.
Mullite (CAS 1302-93-8)	TWA	1 mg/m3	Respirable.
SILICA, AMORPHOUS, FUMED (CAS 7631-86-9)	TWA	4 mg/m3	Total
		1.5 mg/m3	Respirable.
ZIRCON (CAS 14940-68-2)	STEL	10 mg/m3	
	TWA	5 mg/m3	
ZIRCONIUM COMPOUNDS (CAS 1314-23-4)	STEL	10 mg/m3	
	TWA	5 mg/m3	
Canada. Manitoba OELs (Reg. 217) Components	/2006, The Workplace Safety Type	And Health Act) Value	Form
ALPHA-ALUMINA (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.
Mullite (CAS 1302-93-8)	TWA	1 mg/m3	Respirable fraction
ZIRCON (CAS 14940-68-2)	STEL	10 mg/m3	
	TWA	5 mg/m3	
ZIRCONIUM COMPOUNDS CAS 1314-23-4)	STEL	10 mg/m3	
	TWA	5 mg/m3	
Canada. Ontario OELs. (Control of Components	Exposure to Biological or Ch Type	nemical Agents) Value	Form
ALPHA-ALUMINA (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction
Mullite (CAS 1302-93-8)	TWA	1 mg/m3	Respirable fraction
ZIRCON (CAS 14940-68-2)	STEL	10 mg/m3	
	TWA	5 mg/m3	
ZIRCONIUM COMPOUNDS CAS 1314-23-4)	STEL	10 mg/m3	
•	TWA	5 mg/m3	
Canada. Quebec OELs. (Ministry o Components	f Labor - Regulation respecti Type	ng occupational health and s Value	afety) Form
	TWA	10 mg/m3	Total dust.
ALPHA-ALUMINA (CAS 1344-28-1)			
1344-28-1) SILICA, AMORPHOUS,	TWA	6 mg/m3	Respirable dust.
ALPHA-ALUMINA (CAS 1344-28-1) SILICA, AMORPHOUS, FUMED (CAS 7631-86-9) ZIRCON (CAS 14940-68-2)	TWA STEL	6 mg/m3 10 mg/m3	Respirable dust.

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)

Components

Type

Value

Form

ZIRCONIUM COMPOUNDS STEL 10 mg/m3

(CAS 1314-23-4)

TWA 5 mg/m3

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

**Exposure guidelines**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. Eye 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.

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. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

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

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing

exceeding the exposure limits.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.



General hygiene considerations

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 Brick or Cast Shape

Color Not available.

Odor Not available.

Odor threshold Not available.

PH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

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.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

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Vapor pressureNot available.Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot 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

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Acids. 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 likely routes of exposure

Inhalation May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contactCauses severe skin burns.Eye contactCauses serious eye damage.IngestionCauses digestive tract burns.

Symptoms related to the physical, chemical and toxicological characteristics

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

# Information on toxicological effects

Acute toxicity Not known.

**Skin corrosion/irritation** Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

### 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

# **ACGIH Carcinogens**

ALPHA-ALUMINA (CAS 1344-28-1)

Mullite (CAS 1302-93-8)

ZIRCON (CAS 14940-68-2)

ZIRCONIUM COMPOUNDS (CAS 1314-23-4)

A4 Not classifiable as a human carcinogen.

Canada - Manitoba OELs: carcinogenicity

ALPHA-ALUMINA (CAS 1344-28-1)

Mullite (CAS 1302-93-8)

ZIRCON (CAS 14940-68-2)

Not classifiable as a human carcinogen.

Not classifiable as a human carcinogen.

Not classifiable as a human carcinogen.

ZIRCONIUM COMPOUNDS (CAS 1314-23-4) Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

SILICA, AMORPHOUS, FUMED (CAS 7631-86-9) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

Not classified.

single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

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Not an aspiration hazard.

Aspiration hazard Not an aspira

**Chronic effects** Prolonged inhalation may be harmful.

# 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. No data available.

Other adverse effects

Mobility in soil

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

**TDG** 

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

Canadian regulations This product has been classified in accordance with the hazard criteria of the HPR and the SDS

contains all the information required by the HPR.

**Controlled Drugs and Substances Act** 

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

**Greenhouse Gases** 

Not listed.

**Precursor Control Regulations** 

Not regulated.

International regulations

**Stockholm Convention** 

Not applicable.

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# **Rotterdam Convention**

Not applicable.

### **Kyoto protocol**

Not applicable.

# **Montreal Protocol**

Not applicable.

# **Basel Convention**

Not applicable.

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
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	No

<sup>(</sup>PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

No

# 16. Other information

**Issue date** 10-07-2019

Version # 01

**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.

**Revision information** Product and Company Identification: Product and Company Identification

Composition / Information on Ingredients: After Reaction Composition

<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).