# **SAFETY DATA SHEET**



### 1. Identification

Product identifier SERV 16

Other means of identification

Brand Code 9346

**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	70 - 90
CHROMIUM (III) OXIDE		1308-38-9	10 - 25
ALUMINIUM ORTHOPHOSPHATE	<u> </u>	7784-30-7	2.5 - 10
Mullite		1302-93-8	2.5 - 10
SILICA, AMORPHOUS, FUMED	Fumed Silica Silica, crystalline free	7631-86-9	1 - 2.5

#### 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 Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention immediately.

Use fire-extinguishing media appropriate for surrounding materials.

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

Most important

symptoms/effects, acute and delayed

Severe eye irritation. 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. Keep victim under observation. Symptoms may be delayed.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from the chemical

Not applicable.

Not available.

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 this material in contact with eyes. 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**

Туре	Value	Form
TWA	1 mg/m3	Respirable fraction.
TWA	1 mg/m3	Respirable fraction.
TWA	0.003 mg/m3	Inhalable fraction.
TWA	1 mg/m3	Respirable fraction.
al Health & Safety Code, Sci	hedule 1, Table 2)	
Туре	Value	
TWA	10 mg/m3	
TWA	0.5 mg/m3	
	TWA TWA TWA TWA TWA al Health & Safety Code, Sci	TWA 1 mg/m3  TWA 0.003 mg/m3  TWA 0.003 mg/m3  TWA 1 mg/m3  TWA 1 mg/m3  al Health & Safety Code, Schedule 1, Table 2)  Type Value  TWA 10 mg/m3

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Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Safety Regulation 296/97, as Components	Type	Value	Form	
ALPHA-ALUMINA (CAS 1344-28-1)	TWA	1 mg/m3	Respirable.	
ALUMINIUM ORTHOPHOSPHATE (CAS 7784-30-7)	TWA	1 mg/m3	Respirable.	
CHROMIUM (III) OXIDE (CAS 1308-38-9)	TWA	0.5 mg/m3		
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.	
Canada. Manitoba OELs (Re Components	g. 217/2006, The Workplace Safety And Type	Health Act) Value	Form	
ALPHA-ALUMINA (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.	
ALUMINIUM ORTHOPHOSPHATE (CAS 7784-30-7)	TWA	1 mg/m3	Respirable fraction.	
CHROMIUM (III) OXIDE (CAS 1308-38-9)	TWA	0.5 mg/m3		
Mullite (CAS 1302-93-8)	TWA	1 mg/m3	Respirable fraction.	
Canada. Ontario OELs. (Cor Components	ntrol of Exposure to Biological or Chemi Type	ical Agents) Value	Form	
ALPHA-ALUMINA (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.	
ALUMINIUM ORTHOPHOSPHATE (CAS 7784-30-7)	TWA	1 mg/m3	Respirable fraction.	
CHROMIUM (III) OXIDE (CAS 1308-38-9)	TWA	0.5 mg/m3		
Mullite (CAS 1302-93-8)	TWA	1 mg/m3	Respirable fraction.	
Canada. Quebec OELs. (Mir Components	istry of Labor - Regulation respecting o Type	occupational health and sa Value	nfety) Form	
ALPHA-ALUMINA (CAS 1344-28-1)	TWA	10 mg/m3	Total dust.	
CHROMIUM (III) OXIDE (CAS 1308-38-9)	TWA	0.5 mg/m3		
SILICA, AMORPHOUS, FUMED (CAS 7631-86-9)	TWA	6 mg/m3	Respirable dust.	
logical limit values	No biological exposure limits noted for the	ne ingredient(s).		
propriate 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. Provide eyewash station.			
vidual protection measures, Eye/face protection	such as personal protective equipment Wear safety glasses with side shields (or			
Skin protection Hand protection	Wear appropriate chemical resistant glov	ves.		
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.			



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.

Vapor pressure Not available.

Vapor density Not available.

Vapor density Not available.

Relative density Not 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 Hazardous polymerization does not occur.

reactions

Conditions to avoid

Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

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.

**Hazardous decomposition** 

products

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### 11. Toxicological information

#### Information on likely routes of exposure

Prolonged inhalation may be harmful. Inhalation

No adverse effects due to skin contact are expected. Skin contact

Causes serious eye damage. Eye contact

Expected to be a low ingestion hazard. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. 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 Prolonged skin contact may cause temporary irritation.

Causes serious eye damage.

Serious eve damage/eve

irritation

## Respiratory or skin sensitization

### Canada - Alberta OELs: Irritant

CHROMIUM (III) OXIDE (CAS 1308-38-9) Irritant

Respiratory sensitization Not a respiratory sensitizer.

This product is not expected to cause skin sensitization. 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) A4 Not classifiable as a human carcinogen. ALUMINIUM ORTHOPHOSPHATE (CAS 7784-30-7) A4 Not classifiable as a human carcinogen. CHROMIUM (III) OXIDE (CAS 1308-38-9) A4 Not classifiable as a human carcinogen.

Mullite (CAS 1302-93-8)

A4 Not classifiable as a human carcinogen.

## Canada - Manitoba OELs: carcinogenicity

ALPHA-ALUMINA (CAS 1344-28-1) Not classifiable as a human carcinogen. ALUMINIUM ORTHOPHOSPHATE (CAS 7784-30-7) Not classifiable as a human carcinogen. CHROMIUM (III) OXIDE (CAS 1308-38-9) Not classifiable as a human carcinogen. Mullite (CAS 1302-93-8) Not classifiable as a human carcinogen.

### IARC Monographs. Overall Evaluation of Carcinogenicity

CHROMIUM (III) OXIDE (CAS 1308-38-9) 3 Not classifiable as to carcinogenicity to humans. 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 -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Not an aspiration hazard. **Aspiration hazard** 

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. 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.

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### 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

As sold, this product is not RCRA hazardous. Final used condition must be evaluated prior to disposal. Dispose of waste product in accordance with Federal, State and Local regulations. The chrome compounds (Cr III) in this product may be altered to a hexavalent compound (Cr VI) under certain use conditions, such as exposure to alkali salts and/or high temperatures. Proper waste testing (such as TCLP)must be done to determine the waste status of used product. Reuse and recycling of chrome Refractories is recommended whenever possible.

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.

Ontario. Toxic Substances. Toxic Reduction Act, 2009. Regulation 455/09 (July 1, 2011)

CHROMIUM (III) OXIDE (CAS 1308-38-9)

**Precursor Control Regulations** 

Not regulated.

International regulations

**Stockholm Convention** 

Not applicable.

**Rotterdam Convention** 

Not applicable.

Kyoto protocol

Not applicable.

**Montreal Protocol** 

Not applicable. Basel Convention

Not applicable.

Not applicable.

#### **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 Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes

Country(s) or region Inventory name On inventory (yes/no)\* Europe European Inventory of Existing Commercial Chemical Substances (EINECS) Europe European List of Notified Chemical Substances (ELINCS) No Japan Inventory of Existing and New Chemical Substances (ENCS) No Existing Chemicals List (ECL) Korea Yes New Zealand New Zealand Inventory Yes Philippines Philippine Inventory of Chemicals and Chemical Substances No (PICCS)

Taiwan Chemical Substance Inventory (TCSI)

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

## 16. Other information

**Issue date** 09-23-2019

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).