



1. Identification

Product identifier	SERV 10		
Other means of identification			
Brand Code	9321		
Recommended use	For Industrial Use Only		
Recommended restrictions	None known.		
Manufacturer/Supplier 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	CHEMTREC 24 HOUR EMERGENCY #	1-800-424-9300	

2. Hazard(s) identification

Classified hazards

This item is defined as an article per OSHA (29 CFR 1910.1200) and is therefore exempt from labeling. A Safety Data Sheet is available.

This item is not hazardous per OSHA 29 CFR 1910.1200(c). However, individual customer processes (such as grinding, sawing, or blasting) may result in the formation of dust that may present health hazards. May cause respiratory irritation, lung injury, or cancer by inhalation. Limit skin contact. Wash hands after handling. Dispose of waste and residues in accordance with local authority requirements. Wear protective gloves/protective clothing/eye protection. Dust may cause cancer.

Label elements

This item is defined as an article per OSHA (29 CFR 1910.1200) and is therefore exempt from labeling. A Safety Data Sheet is available.

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Hazard(s) not otherwise classified (HNOC)

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3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Aluminium Oxide (Non-Fibrous)		1344-28-1	80 - 90
ALUMINIUM ORTHOPHOSPHATE		7784-30-7	2.5 - 10
Chromium (III) oxide		1308-38-9	2.5 - 10
Mullite		1302-93-8	2.5 - 10
Silicon Dioxide		7631-86-9	1 - 2.5

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

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	Treat symptomatically.		
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	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		

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. For 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. 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 handlingAvoid prolonged exposure. Observe good industrial hygiene practices.Conditions for safe storage,
including any incompatibilitiesStore in original tightly closed container. Store away from incompatible materials (see Section 10
of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

Туре	Value	Form
PEL	5 mg/m3	Respirable fraction.
	15 mg/m3	Total dust.
PEL	0.5 mg/m3	
00)		
Туре	Value	
TWA	0.8 mg/m3	
	20 mppcf	
Туре	Value	Form
TWA	1 mg/m3	Respirable fraction.
	PEL PEL DO) Type TWA Type	PEL 5 mg/m3 PEL 15 mg/m3 00) 15 mg/m3 Type Value TWA 0.8 mg/m3 20 mppcf Value

US. ACGIH Threshold Limit Components	: Values Type	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	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.
US. NIOSH: Pocket Guide to	o Chemical Hazards		
Components	Туре	Value	
Chromium (III) oxide (CAS 1308-38-9)	TWA	0.5 mg/m3	
Silicon Dioxide (CAS 7631-86-9)	TWA	6 mg/m3	
ological limit values	No biological exposure limits noted for the ingredient(s).		
propriate engineering ntrols	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.		
lividual protection measures	, such as personal protective equipm	ent	
Eye/face protection	Wear safety glasses with side shield	s (or goggles).	
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.		
neral hygiene nsiderations	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

o. I hysical 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 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.		
Relative density	Not available.		

Material name: SERV 10

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.

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	Strong oxidizing agents. Incompatibility is based strictly upon potential theoretical reactions between chemicals and may not be specific to industrial application exposure. Contact your sales representative for clarification.		
Hazardous decomposition products	No hazardous decomposition products are known.		

11. Toxicological information

Information on likely routes of exposure

posure		
Prolonged inhalation may be harmful.		
No adverse effects due to skin contact are expected.		
Direct contact with eyes may cause temporary irritation.		
Expected to be a low ingestion hazard.		
Direct contact with eyes may cause temporary irritation.		
cts		
Not available.		
Prolonged skin contact may cause temporary irritation.		
Direct contact with eyes may cause temporary irritation.		
Not a respiratory sensitizer.		
This product is not expected to	cause skin sensitization.	
No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.		
valuation of Carcinogenicity		
Chromium (III) oxide (CAS 1308-38-9)3 Not classifiable as to carcinogenicity to humans.Silicon Dioxide (CAS 7631-86-9)3 Not classifiable as to carcinogenicity to humans.US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)		
This product is not expected to cause reproductive or developmental effects.		
Not classified.		
Not classified.		
Not an aspiration hazard.		
Prolonged inhalation may be h	armful.	
	Prolonged inhalation may be h No adverse effects due to skin Direct contact with eyes may c Expected to be a low ingestion Direct contact with eyes may c cts Not available. Prolonged skin contact may ca Direct contact with eyes may c Not a respiratory sensitizer. This product is not expected to No data available to indicate pr mutagenic or genotoxic. This product is not considered valuation of Carcinogenicity 1308-38-9) -86-9) ated Substances (29 CFR 191 This product is not expected to Not classified. Not classified. Not an aspiration hazard.	

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 this product.
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	Not applicable.
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

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

This product is not known to be 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 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

US federal regulations

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Hazard categories

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No chemical

SARA 313	(TRI	reporting)
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Chemical name	CAS number	% by wt.
Aluminium Oxide (Non-Fibrous)	1344-28-1	80 - 90
Chromium (III) oxide	1308-38-9	2.5 - 10

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Chromium (III) oxide (CAS 1308-38-9)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.

US. Massachusetts RTK - Substance List

Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1) Chromium (III) oxide (CAS 1308-38-9) Silicon Dioxide (CAS 7631-86-9)

US. New Jersey Worker and Community Right-to-Know Act

ALUMINIUM ORTHOPHOSPHATE (CAS 7784-30-7) Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1) Chromium (III) oxide (CAS 1308-38-9) Silicon Dioxide (CAS 7631-86-9)

US. Pennsylvania Worker and Community Right-to-Know Law

Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1) Silicon Dioxide (CAS 7631-86-9)

US. Rhode Island RTK

Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

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
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 (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

*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	05-04-2015
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.