



1. Identification

Product identifier	SERV 30		
Other means of identification			
Brand Code	9246		
Recommended use	For Industrial 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	
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, 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

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.

Hazard(s) not otherwise classified (HNOC)

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.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Aluminium Oxide (Non-Fibro	bus)	1344-28-1	40 - 60
Chromium (III) oxide		1308-38-9	20 - 40
ALUMINIUM ORTHOPHOS	PHATE	7784-30-7	2.5 - 10
Mullite		1302-93-8	2.5 - 10
Amorphous Silica	SILICA, AMORPHOUS, FUMED 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.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.

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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.
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	Not available.

Special protective equipment and precautions for firefighters

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. Local authorities should be advised if significant spillages cannot be contained. 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 in original tightly closed container. Store away from incompatible materials (see Section 10 of the 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.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Chromium (III) oxide (CAS 1308-38-9)	PEL	0.5 mg/m3	
US. OSHA Table Z-3 (29 CFR 1910	.1000)		
Components	Туре	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.

Components	Туре	Value	Form
Amorphous Silica (CAS 7631-86-9)	TWA	0.8 mg/m3	
····,		20 mppcf	
US. ACGIH Threshold Limit	Values		
Components	Туре	Value	Form
ALUMINIUM ORTHOPHOSPHATE (CAS 7784-30-7)	TWA	1 mg/m3	Respirable fraction.
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 (CÁS 1302-93-8)	TWA	1 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide to	Chemical Hazards		
Components	Туре	Value	
Amorphous Silica (CAS 7631-86-9)	TWA	6 mg/m3	
Chromium (III) oxide (CAS 1308-38-9)	TWA	0.5 mg/m3	
logical limit values	No biological exposure limits noted	for the ingredient(s).	
propriate engineering htrols	Good general ventilation (typically 1 should be matched to conditions. If or other engineering controls to mai exposure limits have not been estal eyewash station.	applicable, use process enclosuntain airborne levels below reco	ures, local exhaust ventilation ommended exposure limits. I
ividual protection measures,	such as personal protective equip	nent	
Eye/face protection	Wear safety glasses with side shield	ds (or goggles) and a face shield	d.
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.		
		-	
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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	Solid 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.

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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	,
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and t
	Material is stable under respect conditions

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	Hazardous polymerization does not occur.	
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.	
Hazardous decomposition products	No hazardous decomposition products are known.	

11. Toxicological	information
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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	Causes serious eye damage.		
Ingestion	Expected to be a low ingestion hazard.		
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 effe	ects		
Acute toxicity	Not known.		
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.		
Serious eye damage/eye irritation	Causes serious eye damage.		
Respiratory or skin sensitization	1		
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	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.			
IARC Monographs. Overall Evaluation of Carcinogenicity				
Not listed. US. OSHA Specifically Regu				
Not regulated.				
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.			
Aspiration hazard	Not an 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 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 consideration	าร			
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				

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to
Annex II of MARPOL 73/78 and
the IBC CodeNot applicable.

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 707, Subpt. D)

Not regulated.

Not listed.	ince List (40 CFR 302	4)		
SARA 304 Emergency relea	se notification			
Not regulated.				
US. OSHA Specifically Reg	ulated Substances (2	9 CFR 1910.1001-1050)		
Not regulated.				
Superfund Amendments and Re	authorization Act of	1986 (SARA)		
Hazard categories	Immediate Hazard - Delayed Hazard - N Fire Hazard - No Pressure Hazard - N Reactivity Hazard -	o 10		
SARA 302 Extremely hazard	dous substance			
Not listed.				
SARA 311/312 Hazardous chemical	No			
SARA 313 (TRI reporting)				
Chemical name		CAS number	% by wt.	
Aluminium Oxide (Non-F Chromium (III) oxide	ibrous)	1344-28-1 1308-38-9	60 - 80 20 - 40	
Other federal regulations				
Clean Air Act (CAA) Sectior	n 112 Hazardous Air I	Pollutants (HAPs) List		
Chromium (III) oxide (CA Clean Air Act (CAA) Sectior		elease Prevention (40 C	FR 68.130)	
Not regulated.				
Safe Drinking Water Act (SDWA)	Not regulated.			
US state regulations	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 Australia	Inventory name Australian Inventory	of Chemical Substances	(AICS)	On inventory (yes/no) * Yes
Canada	Domestic Substance			Yes
Canada	Non-Domestic Subs	. ,		Nc
China		. ,	n China (IECSC)	Yes
Europe	Inventory of Existing Chemical Substances in China (IECSC)YeEuropean Inventory of Existing Commercial ChemicalYeSubstances (EINECS)Ye			
Europe	European List of No	tified Chemical Substanc	es (ELINCS)	Nc
Japan	Inventory of Existing	and New Chemical Sub	stances (ENCS)	No
Korea	Existing Chemicals List (ECL)		Yes	
New Zealand	New Zealand Invent	tory		Yes
Philippines	Philippine Inventory (PICCS)	of Chemicals and Chemi	ical Substances	Nc
United States & Puerto Rico	Toxic Substances C	control Act (TSCA) Invent	ory	Yes
*A "Yes" indicates that all compo A "No" indicates that one or more country(s).				
	luding date of pre	eparation or last rev	vision	
16. Other information, inc	. .			
	05-04-2015	•		
Issue date	•			
16. Other information, inc Issue date Revision date Version #	05-04-2015			

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	This document has undergone significant changes and should be reviewed in its entirety.