



1. Identification

Product identifier	IRONMASTER; IRONMASTER CH		
Other means of identification			
Brand Code	8652, 810A, 370B, 474D		
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.		
Manufacture vilues autoviCuralia			

Manufacturer/Importer/Supplier/Distributor information
Manufacturer

Company name	HarbisonWalker Internat	ional
Address	1305 Cherrington Parkway, Suite 100	
	Moon Township, Pennsy	Ivania 15108 US
Telephone	General Phone:	412-375-6600
Website	www.thinkHWI.com	
Emergency phone number	Not available.	

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-Fibrous)		1344-28-1	70 - 90
Amorphous Silica	Fumed Silica Silica, crystalline free	7631-86-9	2.5 - 10
Graphite		7782-42-5	2.5 - 10
Silicon Carbide		409-21-2	2.5 - 10
Titanium Dioxide		13463-67-7	2.5 - 10
Diiron Trioxide		1309-37-1	1 - 2.5
Cristobalite		14464-46-1	0.1 - 2.5
Phenol		108-95-2	0.1 - 2.5
Ethane-1,2-diol		107-21-1	< 0.5
Other components below reportable levels			2.5 - 10

Composition comments

The resin binder in this product was specifically engineered to have low toxicity, with minimal free-phenol (less than 100ppm in this refractory product) and no free-formaldehyde. Under certain conditions, thermal decomposition products may still include carbon monoxide, carbon dioxide, formaldehyde, phenol and aromatic and/or aliphatic compounds.

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.		

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 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 handling Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. 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. 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.
Cristobalite (CAS 14464-46-1)	PEL	0.05 mg/m3	Respirable dust.
Diiron Trioxide (CAS 1309-37-1)	PEL	10 mg/m3	Fume.
Graphite (CAS 7782-42-5)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Silicon Carbide (CAS 409-21-2)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Titanium Dioxide (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.

Components	1000) Type	Value	Form
Aluminium Oxide Non-Fibrous) (CAS 344-28-1)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
Amorphous Silica (CAS /631-86-9)	TWA	0.8 mg/m3	
,		20 mppcf	
Cristobalite (CAS 4464-46-1)	TWA	0.05 mg/m3	Respirable.
		1.2 mppcf	Respirable.
)iiron Trioxide (CAS 309-37-1)	TWA	5 mg/m3	Respirable fraction
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
Graphite (CAS 7782-42-5)	TWA	15 mppcf	
ilicon Carbide (CAS 09-21-2)	TWA	5 mg/m3	Respirable fraction
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
itanium Dioxide (CAS 3463-67-7)	TWA	5 mg/m3	Respirable fraction
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
S. ACGIH Threshold Limit Values	Туре	Value	Form
Aluminium Oxide	TWA		
Non-Fibrous) (CAS 344-28-1)	IWA	1 mg/m3	Respirable fraction
Cristobalite (CAS 4464-46-1)	TWA	0.025 mg/m3	Respirable fraction
Diiron Trioxide (CAS 309-37-1)	TWA	5 mg/m3	Respirable fraction
Graphite (CAS 7782-42-5)	TWA	2 mg/m3	Respirable fraction.
Silicon Carbide (CAS 09-21-2)	TWA	0.1 fibers/cm3	Fiber.
		3 mg/m3	Respirable fraction
		10 mg/m3	Inhalable fraction.
⊺itanium Dioxide (CAS 3463-67-7)	TWA	10 mg/m3	
JS. NIOSH: Pocket Guide to Chemi	cal Hazards		
Components	Туре	Value	Form
Amorphous Silica (CAS 7631-86-9)	TWA	6 mg/m3	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	Form	
Cristobalite (CAS 14464-46-1)	TWA	Respirable dust.		
Diiron Trioxide (CAS 1309-37-1)	TWA	TWA 5 mg/m3 Dust an		
Graphite (CAS 7782-42-5)	TWA	2.5 mg/m3	Respirable.	
Silicon Carbide (CAS 409-21-2)	TWA	5 mg/m3	Respirable.	
		10 mg/m3	Total	
Biological limit values	No biological exposure limits noted for	the ingredient(s).		
xposure guidelines	Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled. The resin binder in this product was specifically engineered to have low toxicity, with minimal free-phenol (less than 100ppm in this refractory product) and no free-formaldehyde. Under cert conditions, thermal decomposition products may still include carbon monoxide, carbon dioxide, formaldehyde, phenol and aromatic and/or aliphatic compounds.			
ontrols	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.			
-	, such as personal protective equipme			
Eye/face protection	Wear safety glasses with side shields	(or goggles).		
Skin protection Hand protection	Wear appropriate chemical resistant g	loves.		
Other	Wear suitable protective clothing.			
Respiratory protection	Use a NIOSH/MSHA approved respirate exceeding the exposure limits.	tor if there is a risk of exposu	re to dust/fume at levels	
Thermal hazards	Wear appropriate thermal protective c	othing, 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	SolidBrick or Cast Shape
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 expl	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	,

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. Refractories containing crystalline silica may, after service, contain more or less crystalline silica. Care must be taken to avoid and/or control dust from demolition. If in doubt of the proper protection, seek advice from a safety professional.
	The organic binder in this product falls into a class known as phenolic resin. Refractory products using this type of binder are supplied in two forms, (1) shaped products such as brick and (2) monolithics/specialties such as refractory plastics and rams. The hazards associated with phenolic resin are different in the two forms. For pre-cured shapes (brick), the binder has been reacted or polymerized by heat to its solid form prior to shipment. On decomposition by heating, where there is sufficient air and heating rate, the gaseous products are mostly carbon dioxide and water. Under low or limited oxygen supply, decomposition products during heat-up and early service may include phenol, as well as aromatic and/or aliphatic derivatives. After a campaign in service, this refractory product should be completely coked and in that condition the material for disposal would be carbon and an inorganic oxide. During field installation of non-cured unshaped products (monolithics), there is a possibility of exposure to trace amounts of phenol by skin contact and inhalation. After the product has been heated to high temperatures in service, it will have similar decomposition characteristics to pre-cured shapes.
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

Information on likely routes of exposure

Inhalation	No adverse effects due to inhalation are expected.			
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 cause temporary irritation.			
Information on toxicological effects				
Acute toxicity	Not available.			
Skin corrosion/irritation	corrosion/irritation Prolonged skin contact may cause temporary irritation.			

products	s inated packaging	Not available.		
waste fr				
	rom residues / unused	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. Not available.		
-	l instructions us waste code	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 th user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.		
	-		tate, when discarded or disposed of is not a hazardous waste	
13 Die	posal consideratior		on, global warming potential) are expected from this component.	
-	lverse effects		ntal effects (e.g. ozone depletion, photochemical ozone creation	
Mobility	•	No data available.		
	mulative potential			
Ecotoxic	nce and degradability	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. No data is available on the degradability of any ingredients in the mixture.		
	ological information		as anvironmentally bazardous. However, this does not evolute the	
-	on hazard	Not an aspiration hazard.		
repeated	target organ toxicity - d exposure			
single ex	xposure	Not classified.		
-	ictive toxicity target organ toxicity -	Not classified.	to cause reproductive or developmental effects.	
			Reasonably Anticipated to be a Human Carcinogen.	
	Cristobalite (CAS 14464-4	ogram (NTP) Report on Carci 46-1)	Rogens Known To Be Human Carcinogen.	
	Cristobalite (CAS 14464-4		Cancer	
	Titanium Dioxide (CAS 13	d Substances (29 CFR 1910.	2B Possibly carcinogenic to humans. 1001-1052)	
	Silicon Carbide (CAS 409	-21-2)	2A Probably carcinogenic to humans.	
	Cristobalite (CAS 14464-4 Diiron Trioxide (CAS 1309		1 Carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans.	
	Amorphous Silica (CAS 7		3 Not classifiable as to carcinogenicity to humans.	
IAR	C Monographs. Overall E	Evaluation of Carcinogenicit		
		in the ceramic industry). The risk" (SCOEL SUM Doc 94 protection against silicosis co occupational exposure limits	t in employees without silicosis exposed to silica dust in quarries ar erefore, preventing the onset of silicosis will also reduce the cancer -final, June 2003) According to the current state of the art, worker an be consistently assured by respecting the existing regulatory . Occupational exposure to respirable dust and respirable crystalling and controlled. Not classifiable as to carcinogenicity to humans.	
		polymorphs." (IARC Monog humans, Silica, silicates dus 2003, SCOEL (the EU Scien main effect in humans of the sufficient information to cond	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 th inhalation of respirable crystalline silica dust is silicosis. "There is slude that the relative risk of lung cancer is increased in persons with	
Carcinoç	Carcinogenicity In 1997, IARC (the Int inhaled from occupation overall evaluation, IAR circumstances studied		onal Agency for Research on Cancer) concluded that crystalline silic ources 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	
Germ ce	ell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Skin	sensitization	This product is not expected to cause skin sensitization.		
-	piratory sensitization	Not a respiratory sensitizer.		
	ı tory or skin sensitization			
irritation	eye damage/eye	Direct contact with eyes may cause temporary irritation.		

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

federal regulations	Communication Sta	known to be a "Hazardous Chemical" as defined by the OSHA Hazard andard, 29 CFR 1910.1200. All chemical substances in this product are listed ical substance inventory where required.		
TSCA Section 12(b) Expe	ort Notification (40 CFR	2 707, Subpt. D)		
Not regulated.				
CERCLA Hazardous Sub	stance List (40 CFR 30)	2.4)		
Not listed.				
SARA 304 Emergency re	lease notification			
Not regulated. OSHA Specifically Regul	atod Substancos (29 C	ED 1010 1001-1052)		
Cristobalite (CAS 144		Cancer		
Chsiobalile (CAS 144	04-40-1)	lung effects		
		immune syste	em effects	
		kidney effects		
perfund Amendments and	Reauthorization Act of	f 1986 (SARA)		
SARA 302 Extremely haz		()		
Not listed.				
SARA 311/312 Hazardou chemical	s No (Exempt)			
SARA 313 (TRI reporting	N			
)	CAS number	% by wt.	
Chemical name				
Chemical name	n-Fibrous)			
Aluminium Oxide (Nor	n-Fibrous)	1344-28-1	70 - 90	
Aluminium Oxide (Non ner federal regulations		1344-28-1		
Aluminium Oxide (Non ner federal regulations Clean Air Act (CAA) Sect		1344-28-1		
Aluminium Oxide (Non ner federal regulations Clean Air Act (CAA) Sect Not regulated.	tion 112 Hazardous Air	1344-28-1 Pollutants (HAPs) List	70 - 90	
Aluminium Oxide (Non ner federal regulations Clean Air Act (CAA) Sect Not regulated. Clean Air Act (CAA) Sect	tion 112 Hazardous Air	1344-28-1 Pollutants (HAPs) List	70 - 90	
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Aluminium Oxide (Non ner federal regulations Clean Air Act (CAA) Sect Not regulated. Clean Air Act (CAA) Sect	tion 112 Hazardous Air tion 112(r) Accidental R	1344-28-1 Pollutants (HAPs) List	70 - 90	
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Aluminium Oxide (Non- ner federal regulations Clean Air Act (CAA) Sect Not regulated. Clean Air Act (CAA) Sect Not regulated. Safe Drinking Water Act (SDWA) state regulations California Proposition 65 WARNING:	tion 112 Hazardous Air tion 112(r) Accidental R Not regulated. This product can expose of California to cause ca cause birth defects or of to www.P65Warnings.ca	1344-28-1 Pollutants (HAPs) List Release Prevention (40 C e you to chemicals includin ancer, and Ethane-1,2-diol ther reproductive harm. Fo	70 - 90 FR 68.130) ng Titanium Dioxide, which is known to the State I, which is known to the State of California to or more information go	
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Aluminium Oxide (Non- ner federal regulations Clean Air Act (CAA) Sect Not regulated. Clean Air Act (CAA) Sect Not regulated. Safe Drinking Water Act (SDWA) state regulations California Proposition 65 WARNING: California Proposition Quartz (SiO2) (C. Titanium Dioxide	tion 112 Hazardous Air tion 112(r) Accidental R Not regulated. This product can expose of California to cause ca cause birth defects or of to www.P65Warnings.ca on 65 - CRT: Listed date AS 14808-60-7) (CAS 13463-67-7)	1344-28-1 Pollutants (HAPs) List Release Prevention (40 C e you to chemicals includin ancer, and Ethane-1,2-diol ther reproductive harm. For a.gov. e/Carcinogenic substanc Listed: Octob Listed: Septe	70 - 90 FR 68.130) ng Titanium Dioxide, which is known to the State I, which is known to the State of California to or more information go	
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Aluminium Oxide (Non- ner federal regulations Clean Air Act (CAA) Sect Not regulated. Clean Air Act (CAA) Sect Not regulated. Safe Drinking Water Act (SDWA) state regulations California Proposition 65 WARNING: California Proposition Quartz (SiO2) (C. Titanium Dioxide California Proposition Ethane-1,2-diol (0	tion 112 Hazardous Air tion 112(r) Accidental R Not regulated. This product can expose of California to cause ca cause birth defects or of to www.P65Warnings.ca on 65 - CRT: Listed date AS 14808-60-7) (CAS 13463-67-7) on 65 - CRT: Listed date CAS 107-21-1)	1344-28-1 Pollutants (HAPs) List Release Prevention (40 C e you to chemicals includin ancer, and Ethane-1,2-diol ther reproductive harm. For a.gov. e/Carcinogenic substanc Listed: Octob Listed: Septe e/Developmental toxin Listed: June	70 - 90 FR 68.130) Ing Titanium Dioxide, which is known to the State I, which is known to the State of California to bor more information go Se wer 1, 1988 mber 2, 2011	

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)	No
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)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*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	01-04-2022
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	This document has undergone significant changes and should be reviewed in its entirety.