

SAFETY DATA SHEET

1. Identification

Product identifier	SUPER SCORIFIERS
Other means of identification	
Brand Code	199A
Recommended use	For Industrial Use Only
Recommended restrictions	DO NOT INGEST. KEEP MATERIAL AWAY FROM CHILDREN AND ANIMALS TO PREVENT ACCIDENTAL INGESTION. Avoid dry cutting, blasting, or dust generation.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Address	HarbisonWalker International 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	%
Kaolin		1332-58-7	20 - 40
Mullite		1302-93-8	20 - 40
Quartz (SiO2)		14808-60-7	10 - 20
Zirconium Dioxide		1314-23-4	2.5 - 10
Diiron Trioxide		1309-37-1	1 - 2.5
Titanium Dioxide		13463-67-7	1 - 2.5
Other components below reportable	levels		10 - 20

Other components below reportable levels

Crystalline silica may be present at low concentrations; most of this is encapsulated in the coarse aggregate or as part of the clays or sands.

4. First-aid measures

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

Skin contact	Weah off with each and water. Cat madical attention if irritation develops and parajets	
	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		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.	

Stop the flow of material, if this is without risk. Following product recovery, flush area with water. Methods and materials for For waste disposal, see section 13 of the SDS. containment and cleaning up **Environmental precautions**

Avoid discharge into drains, water courses or onto the ground.

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

7. Handling and storage

Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places Precautions for safe handling where dust is formed. Do not breathe dust. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Occupational exposure limits

8. Exposure controls/personal protection

This mixture has no ingredients that have PEL, TLV, or other recommended exposure limit.

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

Components	Туре	Value	Form
Diiron Trioxide (CAS	PEL	10 mg/m3	Fume.
1309-37-1)		5	
Kaolin (CAS 1332-58-7)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Quartz (SiO2) (CAS 14808-60-7)	PEL	0.05 mg/m3	
Titanium Dioxide (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.
Zirconium Dioxide (CAS 1314-23-4)	PEL	5 mg/m3	
US. OSHA Table Z-3 (29 CFR 191	0.1000)		
Components	Туре	Value	Form
Diiron Trioxide (CAS 1309-37-1)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
Kaolin (CAS 1332-58-7)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		•	
		50 mppcf	Total dust.

Components	R 1910.1000) Type	Value	Form
Quartz (SiO2) (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.
Titanium Dioxide (CAS	TWA	2.4 mppcf 5 mg/m3	Respirable. Respirable fraction.
13463-67-7)		15 mg/m3 50 mppcf 15 mppcf	Total dust. Total dust. Respirable fraction.
US. ACGIH Threshold Limit	Values		·
Components	Туре	Value	Form
Diiron Trioxide (CAS 1309-37-1)	TWA	5 mg/m3	Respirable fraction.
Kaolin (CAS 1332-58-7)	TWA	2 mg/m3	Respirable fraction.
Mullite (CAS 1302-93-8)	TWA	1 mg/m3	Respirable fraction.
Quartz (SiO2) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Titanium Dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
Zirconium Dioxide (CAS 1314-23-4)	STEL	10 mg/m3	
	TWA	5 mg/m3	
US. NIOSH: Pocket Guide to Components	o Chemical Hazards Type	Value	Form
Diiron Trioxide (CAS 1309-37-1)	TWA	5 mg/m3	Dust and fume.
Kaolin (CAS 1332-58-7)	TWA	5 mg/m3 10 mg/m3	Respirable. Total
Quartz (SiO2) (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
Zirconium Dioxide (CAS 1314-23-4)	STEL	10 mg/m3	
)	TWA	5 mg/m3	
logical limit values	No biological exposure limits noted for	or the ingredient(s).	
osure guidelines	Occupational exposure to nuisance of should be monitored and controlled. Zirconium silicates (zircon sands) con radioactive uranium and thorium. Ov uranium and thorium may cause lung Measurements made by Dupont duri of the 5 mg/m3 OSHA PEL for respir the exposure limits established for ur sand.	ntain trace amounts (106-120 p verexposure by inhalation to res g cancer. Eye contact with the c ing the use of a similar mineral s able dust and/or the PEL for qu	Ci/g) of naturally occurring pirable dust containing dust may cause eye irritatio sand indicated the observal artz ensures the user is bel
propriate engineering trols	Good general ventilation (typically 10 should be matched to conditions. If a or other engineering controls to main exposure limits have not been establ	applicable, use process enclosu atain airborne levels below recor	res, local exhaust ventilatio nmended exposure limits.
vidual protection measures Eye/face protection	, such as personal protective equipm Wear safety glasses with side shields		
Skin protection Hand protection	Wear appropriate chemical resistant	gloves.	
Hand protection		gloves.	
=	Wear appropriate chemical resistant Wear suitable protective clothing. Use a NIOSH/MSHA approved respinexceeding the exposure limits.	-	e to dust/fume at levels



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 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 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 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.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Information on likely routes of e	xposure		
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 ca	ause temporary irritation.	
Information on toxicological effe	ects		
Acute toxicity	Not available.		
Skin corrosion/irritation	Prolonged skin contact may car	use temporary irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may ca	ause temporary irritation.	
Respiratory or skin sensitization			
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to		
Germ cell mutagenicity	No data available to indicate pri mutagenic or genotoxic.	oduct or any components present at greater than 0.1% are	
Carcinogenicity	inhaled from occupational source overall evaluation, IARC noted circumstances studied. Carcino crystalline silica or on external f polymorphs." (IARC Monograp humans, Silica, silicates dust an 2003, SCOEL (the EU Scientific main effect in humans of the infl sufficient information to conclud silicosis (and, apparently, not in in the ceramic industry). There risk" (SCOEL SUM Doc 94-fir protection against silicosis can occupational exposure limits. O	I Agency for Research on Cancer) concluded that crystalline silica ces can cause lung cancer in humans. However in making the that "carcinogenicity was not detected in all industrial ogenicity may be dependent on inherent characteristics of the factors affecting its biological activity or distribution of its who on the evaluation of the carcinogenic risks of chemicals to and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June c Committee on Occupational Exposure Limits) concluded that the halation of respirable crystalline silica dust is silicosis. "There is de that the relative risk of lung cancer is increased in persons with a employees without silicosis exposed to silica dust in quarries and fore, preventing the onset of silicosis will also reduce the cancer hal, June 2003) According to the current state of the art, worker be consistently assured by respecting the existing regulatory occupational exposure to respirable dust and respirable crystalline controlled. This product is not considered to be a carcinogen by	
IARC Monographs. Overall I	Evaluation of Carcinogenicity		
Diiron Trioxide (CAS 1309 Quartz (SiO2) (CAS 1480 Titanium Dioxide (CAS 13	9-37-1) 18-60-7) 3463-67-7)	3 Not classifiable as to carcinogenicity to humans.1 Carcinogenic to humans.2B Possibly carcinogenic to humans.	
••	gram (NTP) Report on Carcino	-	
Quartz (SiO2) (CAS 1480 US. OSHA Specifically Regu	lated Substances (29 CFR 191)	Known To Be Human Carcinogen. 0.1001-1050)	
Not regulated.			
Reproductive toxicity	This product is not expected to	cause reproductive or developmental effects.	
Developmental effects Quartz (SiO2)		0	
Developmental effects - Quartz (SiO2)	EU category	0	
Embryotoxicity Quartz (SiO2)		0	
Reproductivity Quartz (SiO2)		0	
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	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	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

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

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

US federal regulations

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.

SARA 304 Emergency release notification

Not regulated.

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

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

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)

Not regulated.

Other federal regulations Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated. 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 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.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

 Quartz (SiO2) (CAS 14808-60-7)
 Listed: October 1, 1988

 Titanium Dioxide (CAS 13463-67-7)
 Listed: September 2, 2011

 US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))
 Quartz (SiO2) (CAS 14808-60-7)

Titanium Dioxide (CAS 13463-67-7)

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

*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	04-05-2017
Revision date	10-29-2018
Version #	02
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