

SAFETY DATA SHEET

1. Identification

Product identifier	NIKE 60 AR	
Other means of identification		
Brand Code	8156	
Recommended use	For Industrial Use Only	
Recommended restrictions	of respirable dust and respir	r dust generation. Users should be informed of the potential presence able crystalline silica as well as their potential hazards. Appropriate d handling of this material should be provided as required under
Manufacturer/Importer/Supplier/I	Distributor information	
Manufacturer		
Company name	HarbisonWalker Internationa	al
Address	1305 Cherrington Parkway, Suite 100	
	Moon Township	
	Pennsylvania	
	15108	
	US	
Telephone	General Phone:	412-375-6600
Website	www.thinkHWI.com	
Emergency phone number	Not available.	
Supplier	Not 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

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3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Mullite		1302-93-8	80 - 100
SILICA, AMORPHOUS, FUMED	Fumed Silica Silica, crystalline free	7631-86-9	2.5 - 10
ALPHA-ALUMINA		1344-28-1	1 - 2.5
SILICA, CRYSTALLINE, CRISTOBALITE		14464-46-1	1 - 2.5

4. First-aid measures

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	Prolonged exposure may cause chronic effects.
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	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible).
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. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. 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. Put material in suitable, covered, labeled containers. 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	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
Conditions for safe storage,	Store away from incompatible materials (see Section 10 of the SDS).

Conditions for safe storage, including any incompatibilities

8. Exposure controls/personal protection

Components	Туре	Value	Form
ALPHA-ALUMINA (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.
Mullite (CAS 1302-93-8)	TWA	1 mg/m3	Respirable fraction.
SILICA, CRYSTALLINE, CRISTOBALITE (CAS	TWA	0.025 mg/m3	Respirable fraction.
14464-46-1)			
,	onal Health & Safety Code, Sc	hedule 1, Table 2)	
Canada. Alberta OELs (Occupati	onal Health & Safety Code, Sc Type	hedule 1, Table 2) Value	Form
14464-46-1) Canada. Alberta OELs (Occupati Components ALPHA-ALUMINA (CAS 1344-28-1)		-	Form
Canada. Alberta OELs (Occupati Components ALPHA-ALUMINA (CAS	Туре	Value	Form Respirable.

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

Components	Туре	Value	Form
ALPHA-ALUMINA (CAS 1344-28-1)	TWA	1 mg/m3	Respirable.
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.
SILICA, CRYSTALLINE, CRISTOBALITE (CAS	TWA	0.025 mg/m3	Respirable fraction.

14464-46-1)

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Туре	Value	Form
ALPHA-ALUMINA (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.
Mullite (CAS 1302-93-8)	TWA	1 mg/m3	Respirable fraction.
SILICA, CRYSTALLINE, CRISTOBALITE (CAS 14464-46-1)	TWA	0.025 mg/m3	Respirable fraction.

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Туре	Value	Form
ALPHA-ALUMINA (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.
Mullite (CAS 1302-93-8)	TWA	1 mg/m3	Respirable fraction.
SILICA, CRYSTALLINE, CRISTOBALITE (CAS	TWA	0.05 mg/m3	Respirable fraction.

14464-46-1)

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)

Components	Туре	Value	Form	
ALPHA-ALUMINA (CAS 1344-28-1)	TWA	10 mg/m3	Total dust.	
SILICA, AMORPHOUS, FUMED (CAS 7631-86-9)	TWA	6 mg/m3	Respirable dust.	
SILICA, CRYSTALLINE, CRISTOBALITE (CAS 14464-46-1)	TWA	0.05 mg/m3	Respirable dust.	

Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)

Components	Туре	Value	Form
ALPHA-ALUMINA (CAS 1344-28-1)	15 minute	20 mg/m3	
	8 hour	10 mg/m3	
Mullite (CAS 1302-93-8)	15 minute	20 mg/m3	Dust.
	8 hour	10 mg/m3	Dust.
SILICA, CRYSTALLINE, CRISTOBALITE (CAS 14464-46-1)	15 minute	10 mg/m3	Inhalable fraction.
	8 hour	0.05 mg/m3	Respirable fraction.
ological limit values	No biological exposure limits noted for the ingredient(s).		
posure guidelines	Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.		
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.		

Individual protection measures, such as personal protective equipment

Eye/face protection

Skin protection

Hand protection

Other

Respiratory protection

Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Wear appropriate thermal protective clothing, when necessary.

If contact is likely, safety glasses with side shields are recommended.

Wear appropriate chemical resistant gloves.

Use of an impervious apron is recommended.

Thermal hazards



General hygiene considerations

Observe any medical surveillance requirements. 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

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

Inhalation	Prolonged inhalation may be harmful.		
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 known.
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory of skill sensitizatio	11	
Canada - Alberta OELs: Irri	tant	
SILICA, CRYSTALLINE, 14464-46-1)	CRISTOBALITE (CAS	Irritant
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 mutagenic or genotoxic.	product or any components present at greater than 0.1% are
Carcinogenicity	inhaled from occupational so overall evaluation, IARC not circumstances studied. Carc crystalline silica or on extern polymorphs." (IARC Monog humans, Silica, silicates dus 2003, SCOEL (the EU Scien main effect in humans of the sufficient information to cond silicosis (and, apparently, no in the ceramic industry). The risk" (SCOEL SUM Doc 94 protection against silicosis c occupational exposure limits	bond Agency for Research on Cancer) concluded that crystalline silica bources can cause lung cancer in humans. However in making the ed that "carcinogenicity was not detected in all industrial sinogenicity may be dependent on inherent characteristics of the hal 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 the e inhalation of respirable crystalline silica dust is silicosis. "There is clude that the relative risk of lung cancer is increased in persons with ot in employees without silicosis exposed to silica dust in quarries and erefore, preventing the onset of silicosis will also reduce the cancer 4-final, June 2003) According to the current state of the art, worker an be consistently assured by respecting the existing regulatory be monitored and controlled.
ACGIH Carcinogens		
ALPHA-ALUMINA (CAS 1344-28-1) Mullite (CAS 1302-93-8) SILICA, CRYSTALLINE, CRISTOBALITE (CAS 14464-46-1)		A4 Not classifiable as a human carcinogen. A4 Not classifiable as a human carcinogen. A2 Suspected human carcinogen.
Canada - Alberta OELs: Ca	rcinogen category	
SILICA, CRYSTALLINE, 14464-46-1)	,	Suspected human carcinogen.
Canada - Manitoba OELs: c	arcinogenicity	

Not classifiable as a human carcinogen. Not classifiable as a human carcinogen.

SILICA, CRYSTALLINE, C 14464-46-1)	CRISTOBALITE (CAS	Suspected human carcinogen.
Canada - Quebec OELs: Car	cinogen category	
SILICA, CRYSTALLINE, C 14464-46-1)	CRISTOBALITE (CAS	Detected carcinogenic effect in animals.
IARC Monographs. Overall E	Evaluation of Carcinogenicity	
SILICA, AMORPHOUS, FUMED (CAS 7631-86-9) SILICA, CRYSTALLINE, CRISTOBALITE (CAS 14464-46-1)		3 Not classifiable as to carcinogenicity to humans.1 Carcinogenic to humans.
US. National Toxicology Pro	gram (NTP) Report on Carcin	ogens
SILICA, CRYSTALLINE, CRISTOBALITE (CAS 14464-46-1)		Known To Be Human Carcinogen.
		Reasonably Anticipated to be a Human Carcinogen.
Reproductive toxicity	This product is not expected to	o cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Causes damage to organs through prolonged or repeated exposure.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.	
12. Ecological information		
	The product is not close if ad a	

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.

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

TDG

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

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.

Not listed.		
Greenhouse Gases		
Not listed.		
Precursor Control Regulation	ons	
Not regulated.		
ernational regulations		
Stockholm Convention		
Not applicable. Rotterdam Convention		
Not applicable.		
Kyoto protocol		
Not applicable. Montreal Protocol		
Not applicable. Basel Convention		
Not applicable. ernational Inventories		
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	No
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)	Nc
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No

*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

Issue date	12-09-2020
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