

SAFETY DATA SHEET

1. Identification

Product identifier	TZ 351 DRY MORTAR
Other means of identification	
Brand Code	9474
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.

Manufacturer/Importer/Supplier/Distributor information Manufacturer

Company name	HarbisonWalker Internat	ional
Address	1305 Cherrington Parkw	ay, 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

Physical hazards	Not classified.	
Health hazards	Carcinogenicity	Category 1A
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		



Signal word	Danger
Hazard statement	May cause cancer.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If exposed or concerned: Get medical advice/attention.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Zircon		14940-68-2	80 - 100
Quartz (SiO2)		14808-60-7	< 0.5
Other components below re	eportable levels		2.5 - 10

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	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.
5. Fire-fighting measures	

Suitable extinguishing media Unsuitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials. 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. Do not breathe dust. Avoid prolonged exposure. Should be handled in closed systems, if possible. Wear appropriate personal protective

conditions for safe storage,
including any incompatibilitiesequipment. Observe good industrial hygiene practices.Store in 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 Co Components	Туре	Value	Form
Quartz (SiO2) (CAS 14808-60-7)	PEL	0.05 mg/m3	Respirable dust.
Zircon (CAS 14940-68-2)	PEL	5 mg/m3	
US. OSHA Table Z-3 (29 CFR 1910.10 Components	00) Type	Value	Form
Quartz (SiO2) (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
US. ACGIH Threshold Limit Values			
Components	Туре	Value	Form
Quartz (SiO2) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Zircon (CAS 14940-68-2)	STEL	10 mg/m3	
	TWA	5 mg/m3	

Components	Туре	Value	Form
Quartz (SiO2) (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
Zircon (CAS 14940-68-2)	STEL	10 mg/m3	
	TWA	5 mg/m3	
ological limit values	No biological exposure limits noted for	r the ingredient(s).	
cposure guidelines	Occupational exposure to nuisance du should be monitored and controlled. O and respirable crystalline silica should Zirconium silicates (zircon sands) con radioactive uranium and thorium. Ove uranium and thorium may cause lung Measurements made by Dupont durin of the 5 mg/m3 OSHA PEL for respira the exposure limits established for ura sand.	Occupational exposure to nuisa be monitored and controlled. tain trace amounts (106-120 p erexposure by inhalation to res cancer. Eye contact with the o g the use of a similar mineral s ble dust and/or the PEL for qu	Ci/g) of naturally occurring pirable dust containing dust may cause eye irritation. sand indicated the observance artz ensures the user is below
opropriate engineering ontrols	Good general ventilation (typically 10 should be matched to conditions. If ap or other engineering controls to maint exposure limits have not been establis	plicable, use process enclosu ain airborne levels below recor	res, local exhaust ventilation, mmended exposure limits. If
dividual protection measures	s, such as personal protective equipme	ent	
Eye/face protection	If contact is likely, safety glasses with	side shields are recommended	d.
Skin protection Hand protection	Wear appropriate chemical resistant g	loves.	
Other	Use of an impervious apron is recomm	nended.	
Respiratory protection	Use a NIOSH/MSHA approved respira exceeding the exposure limits.	ator if there is a risk of exposu	e to dust/fume at levels
Thermal hazards	Wear appropriate thermal protective c	lothing, when necessary.	

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

Solid.
Solid.
Not available.
losive limits
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	Not available.
(n-octanol/water)	
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

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 effe	ects
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 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.

÷ ·	In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk" (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. May cause cancer. Occupational exposure to respirable dust and respirable crystalline silica of the article dust and respirable crystalline silica dust of the art and respirable crystalline silica dust and respirable crystalline silica dust and controlled.			
Quartz (SiO2) (CAS 1480 OSHA Specifically Regulate	d Substances (29 CFR 1910.1001	Carcinogenic to humans.		
Quartz (SiO2) (CAS 1480	•	Cancer		
. , .	gram (NTP) Report on Carcinoge			
Quartz (SiO2) (CAS 1480	8-60-7) K	nown To Be Human Carcinogen.		
Reproductive toxicity	This product is not expected to ca	ause reproductive or developmental effects.		
Developmental effects Quartz (SiO2)	0			
Developmental effects - Quartz (SiO2) Embryotoxicity Quartz (SiO2) Reproductivity	EU category 0			
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.			
Chronic effects	Prolonged inhalation may be harr	mful. Prolonged exposure may cause chronic effects.		
12. Ecological information				
Ecotoxicity		nvironmentally hazardous. However, this does not exclude the spills can have a harmful or damaging effect on the environment.		
Persistence and degradability	No data is available on the degra	adability of any ingredients in the mixture.		
Bioaccumulative potential	No data available.			
Mobility in soil	No data available.			
Other adverse effects		effects (e.g. ozone depletion, photochemical ozone creation lobal warming potential) are expected from this component.		
13. Disposal considerations				
Disposal instructions	according to Federal regulations	when discarded or disposed of, is not a hazardous waste $(40 \text{ CFR } 261.4 \text{ (b)}(4))$. Under RCRA, it is the responsibility of the at the time of disposal, whether the product meets RCRA criteria		
Hazardous waste code		eral industries, no Waste Code can be provided by the supplier. rmined in arrangement with your waste disposal partner or the		
Waste from residues / unused products	Not available.			
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

US federal regulations

tions 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.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Quartz (SiO2) (CAS 14808-60-7)

Cancer lung effects immune system effects kidney effects

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes chemical

Classified hazard Carcinogenicity categories

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 Proposition 65



WARNING: This product can expose you to chemicals including Quartz (SiO2): Quartz (SiO2), which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Quartz (SiO2) (CAS 14808-60-7)Listed: October 1, 1988Rutile (TiO2) (CAS 1317-80-2)Listed: September 2, 2011Titanium Dioxide (CAS 13463-67-7)Listed: September 2, 2011US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Quartz (SiO2) (CAS 14808-60-7)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
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)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	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, including date of preparation or last revision

Issue date	05-15-2015
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.