

# SAFETY DATA SHEET

# 1. Identification

Product identifier	NARMAG TB MORTAR (DRY)
Other means of identification	
Brand Code	632A
Recommended use	For Industrial Use Only
Recommended restrictions	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/Supplier information

Manufacturer		
Company name	HarbisonWalker International	
Address	1305 Cherrington Parkway, Sui	te 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

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.
Response	If 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	Users should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Overexposure to the respirable dust of crystalline silica (quartz or cristobalite, less than or equal to 5 microns in size) may lead to silicosis in humans, which is a progressive and irreversible lung disease. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.

### 3. Composition/information on ingredients

**Mixtures** 

Chemical name	Common name and synonyms	CAS number	%
Magnesium Oxide		1309-48-4	60 - 80
Kaolin		1332-58-7	10 - 20

Chemical name	Common name and synonyms	CAS number	%
Silicic Acid, Sodium Salt		1344-09-8	10 - 20
Quartz (SiO2)		14808-60-7	2.5 - 10
Aluminium Oxide (Non-Fibrous)		1344-28-1	0.1 - 1
Titanium Dioxide		13463-67-7	0.1 - 1
Other components below reportable le	evels		1 - 2.5

Other components below reportable levels

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 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	Do not rub eyes. 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	Dusts may irritate the respiratory tract, skin and eyes. Coughing.
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 concerned: Get medical advice. 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. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. 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	Stop the flow of material, if this is without risk. Collect dust using a vacuum cleaner equipped with HEPA filter.
	Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Avoid the generation of dusts during clean-up. Following product recovery, flush area with water.
	Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. 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. Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Do not breathe dust. Avoid prolonged exposure. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly closed container. Store in a well-ventilated place. 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
Kaolin (CAS 1332-58-7)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Magnesium Oxide (CAS 1309-48-4)	PEL	15 mg/m3	Total particulate.
Titanium Dioxide (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 Cl	FR 1910.1000)		
Components	Туре	Value	Form
Quartz (SiO2) (CAS 14808-60-7)	TWA	0.3 mg/m3	Total dust.
,		0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
US. ACGIH Threshold Lim	it Values		
Components	Туре	Value	Form
Kaolin (CAS 1332-58-7)	TWA	2 mg/m3	Respirable fraction.
Magnesium Oxide (CAS 1309-48-4)	TWA	10 mg/m3	Inhalable fraction.
Quartz (SiO2) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Titanium Dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
US. NIOSH: Pocket Guide	to Chemical Hazards		
Components	Туре	Value	Form
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.
logical limit values	No biological exposure limits noted for	or the ingredient(s).	
oosure guidelines	Occupational exposure to nuisance or should be monitored and controlled.	dust (total and respirable) and re	espirable crystalline silica
propriate engineering htrols	Good general ventilation (typically 10 should be matched to conditions. If a or other engineering controls to main exposure limits have not been establ engineering measures are not suffici Occupational Exposure Limit (OEL), ground, cut, or used in any operation ventilation to keep exposures below	applicable, use process enclosu itain airborne levels below recorn lished, maintain airborne levels ent to maintain concentrations of suitable respiratory protection no which may generate dusts, use	res, local exhaust ventilation nmended exposure limits. to an acceptable level. If of dust particulates below the nust be worn. If material is appropriate local exhaust
ividual protection measures Eye/face protection	s, such as personal protective equipm Chemical respirator with organic vap		and mist filter.
Skin protection			
Hand protection	Wear appropriate chemical resistant	gloves.	
Other	Use of an impervious apron is recom	imended.	
Respiratory protection	Use a NIOSH/MSHA approved respi exceeding the exposure limits.	rator if there is a risk of exposur	e to dust/fume at levels
Thermal hazards	Wear appropriate thermal protective	clothing, when necessary.	
neral hygiene	Always observe good personal hygie	ene measures, such as washing	after handling the materia

#### Appearance

Physical state

Solid.

Form	Solid Powder.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
pН	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.

# 10. Stability and reactivity

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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	Phosphorus. Chlorine. Incompatibility is based strictly upon potential theoretical reactions between chemicals and may not be specific to industrial application exposure. Contact your sales representative for clarification.
Hazardous decomposition products	No hazardous decomposition products are known.

# 11. Toxicological information

### Information on likely routes of exposure

Inhalation	Dust may irritate respiratory system. Prolonged inhalation may be harmful.
Skin contact	Dust or powder may irritate the skin.
Eye contact	Dust may irritate the eyes.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Dusts may irritate the respiratory tract, skin and eyes. Coughing.
Information on toxicological effect	cts

# Acute toxicity

Not available.

Skin corrosion/irritation	Prolonged skin contact may cau	
Serious eye damage/eye irritation	Direct contact with eyes may ca	use temporary irritation.
Respiratory or skin sensitization	I	
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 pro mutagenic or genotoxic.	oduct or any components present at greater than 0.1% are
Carcinogenicity	inhaled from occupational source overall evaluation, IARC noted to circumstances studied. Carcino crystalline silica or on external for polymorphs." (IARC Monograph humans, Silica, silicates dust ar 2003, SCOEL (the EU Scientific main effect in humans of the inf sufficient information to conclud silicosis (and, apparently, not in in the ceramic industry). Therefor risk" (SCOEL SUM Doc 94-fin protection against silicosis can be	Agency for Research on Cancer) concluded that crystalline silica tes can cause lung cancer in humans. However in making the that "carcinogenicity was not detected in all industrial genicity may be dependent on inherent characteristics of the actors affecting its biological activity or distribution of its hs on the evaluation of the carcinogenic risks of chemicals to nd organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June c Committee on Occupational Exposure Limits) concluded that the nalation of respirable crystalline silica dust is silicosis. "There is e that the relative risk of lung cancer is increased in persons with employees without silicosis exposed to silica dust in quarries and fore, preventing the onset of silicosis will also reduce the cancer ial, June 2003) According to the current state of the art, worker be consistently assured by respecting the existing regulatory ay cause cancer. Occupational exposure to respirable dust and fid be monitored and controlled.
IARC Monographs. Overall E	Evaluation of Carcinogenicity	
Quartz (SiO2) (CAS 1480 Titanium Dioxide (CAS 13 <b>US. National Toxicology Pro</b>		1 Carcinogenic to humans. 2B Possibly carcinogenic to humans. gens
Quartz (SiO2) (CAS 1480 US. OSHA Specifically Regu	8-60-7) lated Substances (29 CFR 1910	Known To Be Human Carcinogen. <b>).1001-1050)</b>
Not listed.		
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 ha	rmful. Prolonged exposure may cause chronic effects.
12. Ecological information		
Ecotoxicity		environmentally 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 degr	adability of this product.
Bioaccumulative potential	No data available.	
Mobility in soil	No data available.	
Other adverse effects		l effects (e.g. ozone depletion, photochemical ozone creation global warming potential) are expected from this component.
13. Disposal considerations		
Disposal instructions	according to Federal regulations	e, when discarded or disposed of, is not a hazardous waste s (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the e, at the time of disposal, whether the product meets RCRA criteria

Hazardous waste code	Not applicable.
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

IS 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 TSC/ chemical substance inventory where required.
TSCA Section 12(b) Export N	Notification (40 CFR 707, Subpt. D)
Not regulated. CERCLA Hazardous Substa	nce List (40 CFR 302.4)
Not listed. SARA 304 Emergency releas	se notification
Not regulated. US. OSHA Specifically Regu	lated Substances (29 CFR 1910.1001-1050)
Not listed.	
Superfund Amendments and Re	authorization Act of 1986 (SARA)
Hazard categories	Immediate Hazard - No Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely hazard Not listed.	lous substance
SARA 311/312 Hazardous chemical	No
SARA 313 (TRI reporting) Not regulated.	
Other federal regulations	
-	112 Hazardous Air Pollutants (HAPs) List
Not regulated.	
Clean Air Act (CAA) Section Not regulated.	112(r) Accidental Release Prevention (40 CFR 68.130)
Safe Drinking Water Act (SDWA)	Not regulated.
IS state regulations	
-	bstances. CA Department of Justice (California Health and Safety Code Section 11100)
Not listed.	
US. Massachusetts RTK - Sເ	ubstance List
Kaolin (CAS 1332-58-7)	
Magnesium Oxide (CAS 1	
Quartz (SiO2) (CAS 1480	
Titanium Dioxide (CAS 13	Community Right-to-Know Act
Kaolin (CAS 1332-58-7)	Community Right-to-Rhow Act
Magnesium Oxide (CAS 1	1309-48-4)
Quartz (SiO2) (CAS 1480	,
Titanium Dioxide (CAS 13	
	nd Community Right-to-Know Law
US. Pennsylvania Worker ar	

Magnesium Oxide (CAS 1309-48-4) Quartz (SiO2) (CAS 14808-60-7) Titanium Dioxide (CAS 13463-67-7)

#### US. Rhode Island RTK

Not regulated.

#### US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

#### 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

#### **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)	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 Version #	05-26-2015 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 Toxicological Information: Toxicological Data Ecological Information: Ecotoxicity Transport Information: Material Transportation Information