



SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Trade name or designation of the mixture	MIZZOU CASTABLE PLUS; MIZZOU CASTABLE PLUS W/F
Registration number	-
Synonyms	None.
Brand Code	5976, 454B, 4622, 433C
Issue date	07-November-2016
Version number	01
1.2. Relevant identified uses of	f the substance or mixture and uses advised against
Identified uses	For Industrial Use Only For Industrial Use Only
Uses advised against	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.
1.3. Details of the supplier of t	he safety data sheet

Supplier

Supplier		
Company name	HarbisonWalker International	l Limited
Address	Dock Road South	
	Bromborough	
	Wirral	
	UK	
Division	United Kingdom	
Telephone	General Phone:	44.(0)151.641.5900
e-mail	REACH@thinkhwi.com	
Contact person	HWI USA	
1.4. Emergency telephone number	+44 (0)151 641 5900	(Office hours 07:30 - 17:00)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Hazard summary	Exposure to powder or dusts may be irritating to eyes, nose and throat. Prolonged exposure may cause chronic effects. Not classified for health hazards. However, occupational exposure to the mixture or substance(s) may cause adverse health effects.
2.2. Label elements	
Label according to Regulation	(EC) No. 1272/2008 as amended
Hazard pictograms	None.
Signal word	None.
Hazard statements	The mixture does not meet the criteria for classification.
Precautionary statements	
Prevention	Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Supplemental label information	None.
2.3. Other hazards	None known.

SECTION 3: Composition/information on ingredients

Chemical name % CAS-No. / EC No. REACH Registration No. INDEX No. Note Aluminium Oxide (Non-Fibrous) 2.5 - 10 1344-28-1 .1215-691-6 01-2119529248-35-0134 - Classification: - - - - - Clement, Alumina, Chemicals 2.5 - 10 65997-16-2 .266-045-5 - - - - Clement, Alumina, Chemicals 2.5 - 10 65997-16-2 .266-045-5 -<	General information					
215-691-6 Cement, Alumina, Chemicals 2.5 - 10 65997-16-2 266-045-5 Classification: - 266-045-5 266-045-5 Classification: - 266-045-5 266-045-5 Classification: - 266-045-5 266-045-5 Classification: - 266-045-5 266-045-5 Station: - - 266-045-5 Chere components below reportable levels: 80 - 90 - - List of abbreviations and symbols: that may be used above #: This substance may be present at typical concentrations of 1-2.5%, most of this is encapsulated in the coarse aggregate. Stretton 4: First aid mesuresteresteresteresteresteresterestere	Chemical name	%	-	REACH Registration No.	INDEX No.	Notes
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	Special fire fighting	Not available.				

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. For personal protection, see section 8 of the SDS.
For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
6.2. Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up	Avoid the generation of dusts during clean-up. Collect dust using a vacuum cleaner equipped with HEPA filter. Stop the flow of material, if this is without risk.
	Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.
	Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal.
6.4. Reference to other sections	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.
SECTION 7: Handling and	l storage
7.1. Precautions for safe	Minimise dust generation and accumulation. Provide appropriate exhaust ventilation at places

7.1. Precautions for safe handling	Minimise 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. Practice good housekeeping.
7.2. Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).
7.3. Specific end use(s)	Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Components	Туре	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	4 mg/m3	Respirable dust.
,		10 mg/m3	Inhalable dust.
Amorphous silica (CAS 7631-86-9)	TWA	6 mg/m3	Inhalable dust.
		2.4 mg/m3	Respirable dust.
Cristobalite (CAS 14464-46-1)	TWA	1 fibers/mL	Fiber.
		5 mg/m3	Fiber.
		0.1 mg/m3	Respirable.
Fumes, Silica (CAS 69012-64-2)	TWA	6 mg/m3	Inhalable dust.
		2.4 mg/m3	Respirable dust.
Titanium dioxide (CAS 13463-67-7)	TWA	4 mg/m3	Respirable.
·		10 mg/m3	Inhalable
ological limit values	No biological exposure limits noted for	or the ingredient(s).	
commended monitoring ocedures	Follow standard monitoring procedur	res.	
rived no effect levels NELs)	Not available.		
edicted no effect ncentrations (PNECs)	Not available.		
posure guidelines	Occupational exposure to nuisance d be monitored and controlled. Occupa respirable crystalline silica should be	ational exposure to nuisance du	
2. Exposure controls			
propriate engineering ntrols	Good general ventilation (typically 10 be matched to conditions. If applicat engineering controls to maintain airb limits have not been established, ma measures are not sufficient to mainta (occupational exposure limit), suitabl cut, or used in any operation which r to keep exposures below the recomm	ble, use process enclosures, location porne levels below recommended intain airborne levels to an acce ain concentrations of dust particle respiratory protection must b may generate dusts, use approp	al exhaust ventilation, or other d exposure limits. If exposure eptable level. If engineering culates below the OEL e worn. If material is ground,
	res, such as personal protective equ	linment	
dividual protection measur	es, such as personal protective euu		

Eye/face protection

Skin protection

- Hand protection

- Other Respiratory protection

Thermal hazards



Hygiene measures

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. Environmental manager must be informed of all major releases.

Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels

Wear safety glasses with side shields (or goggles).

Wear appropriate thermal protective clothing, when necessary.

Wear appropriate chemical resistant gloves.

Wear suitable protective clothing.

exceeding the exposure limits.

Environmental exposure controls

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Solid.
Form	Powder.
Colour	Not available.
Odour	Not available.
Odour 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 ex	xplosive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Solubility (other)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
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SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous	No dangerous reaction known under conditions of normal use.
reactions	

10.4. Conditions to avoid	Contact with incompatible materials.
10.5. Incompatible materials	Acids. Fluorine. Chlorine. Incompatibility is based strictly upon potential theoretical reactions between chemicals and may not be specific to industrial application exposure.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.
SECTION 11: Toxicologic	al information
General information	Occupational exposure to the substance or mixture may cause adverse effects.
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	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
Symptoms	Dusts may irritate the respiratory tract, skin and eyes.
11.1. Information on toxicolog	ical effects
Acute toxicity	Not known.
Skin corrosion/irritation	Due to partial or complete lack of data the classification is not possible.
Serious eye damage/eye irritation	Due to partial or complete lack of data the classification is not possible.
Respiratory sensitisation	Due to partial or complete lack of data the classification is not possible.
Skin sensitisation	Due to partial or complete lack of data the classification is not possible.
Germ cell mutagenicity	Due to partial or complete lack of data the classification is not possible.
Carcinogenicity	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. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled. Risk of cancer cannot be excluded with prolonged exposure.
Reproductive toxicity	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - single exposure	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - repeated exposure	Due to partial or complete lack of data the classification is not possible.
Aspiration hazard	Due to partial or complete lack of data the classification is not possible.
Mixture versus substance information	No information available.
Other information	This product has no known adverse effect on human health.
SECTION 12: Ecological in	nformation
12.1. Toxicity	Based on available data, the classification criteria are not met for hazardous to the aquatic environment.
40.0 Descriptions and	No data in susilable, as the descendentity of this supervise

	environment.
12.2. Persistence and degradability	No data is available on the degradability of this product.
12.3. Bioaccumulative potential	No data available.
Partition coefficient n-octanol/water (log Kow)	Not available.
Bioconcentration factor (BCF)	Not available.

12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	Not available.
12.6. 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.

SECTION 13: Disposal considerations

13.1. Waste treatment methods	
Residual waste	Not available.
Contaminated packaging	Not available.
EU waste code	Not available.
Disposal methods/information	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.

SECTION 14: Transport information

ADR

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulkNot applicable.according to Annex II ofMarpol and the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

Not regulated.	2006 Annex XVII Substances subject to restriction on marketing and use 2006, REACH Annex XIV Substances subject to authorization, as amended	
Not listed.	2000, REACH Almex ATV Substances subject to authorization, as amenueu	
Directive 2004/37/EC: on t mutagens at work	the protection of workers from the risks related to exposure to carcinogens and	
Not listed.		
Other EU regulations		
Directive 2012/18/EU on n	najor accident hazards involving dangerous substances, as amended	
Not listed.		
Other regulations	The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.	
National regulations	Follow national regulation for work with chemical agents.	
15.2. Chemical safety assessment	No Chemical Safety Assessment has been carried out.	
SECTION 16: Other information		
List of abbreviations	Not available.	
References	Not available.	
Information on evaluation method leading to the classification of mixture	Not available.	
Full text of any H-statements not written out in full under Sections 2 to 15	None.	
Revision information	None.	
Training information	Not available.	
Disclaimer	This information is based on our present knowledge on creation date. However, this shall not	

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.