

SAFETY DATA SHEET

1. Identification

Product identifier	UFALA CASTABLE
Other means of identification	
Brand Code	301C
Synonyms	WM-7757 CASTABLE
Recommended use	For Industrial or Professional 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 International		
Address	1305 Cherrington Parkway, 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 away from incompatible materials.
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	%	
Mullite		1302-93-8	60 - 80	
Amorphous Silica	Fumed Silica Silica, crystalline free	7631-86-9	10 - 25	
Cement, Alumina, Chemica	ls	65997-16-2	10 - 25	
Titanium Dioxide		13463-67-7	1 - 2.5	

Chemical name	Common name and synonyms	CAS number	%
Cristobalite		14464-46-1	< 0.5
Other components below r	eportable levels		1 - 2.5

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	
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	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	Not available.
Specific hazards arising from	Not applicable.

the chemical Special protective equipment and precautions for firefighters

6. Accidental release measures

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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. 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 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 Contaminants (29 CFR 1910.1000)

Not available.

Components	Туре	Value	Form
Cristobalite (CAS 14464-46-1)	PEL	0.05 mg/m3	Respirable dust.
Titanium Dioxide (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.

US.	OSHA	Table	Z-3	(29	CFR	1910.	1000)	
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TWA TWA TWA	0.8 mg/m3 20 mppcf 0.05 mg/m3 1.2 mppcf 5 mg/m3	Respirable. Respirable.
	0.05 mg/m3 1.2 mppcf	•
	1.2 mppcf	•
TWA		Respirable.
TWA	5 ma/m3	
		Respirable fraction.
	15 mg/m3	Total dust.
	50 mppcf	Total dust.
	15 mppcf	Respirable fraction.
es		
Туре	Value	Form
TWA	0.025 mg/m3	Respirable fraction.
TWA	1 mg/m3	Respirable fraction.
TWA	10 mg/m3	
mical Hazards Type	Value	Form
TWA	6 mg/m3	
TWA	0.05 mg/m3	Respirable dust.
biological exposure limits noted	for the ingredient(s).	
		spirable crystalline silica
uld be matched to conditions. If other engineering controls to mai	applicable, use process enclosur ntain airborne levels below recon	es, local exhaust ventilatio nmended exposure limits.
ar safety glasses with side shield	ls (or goggles).	
ar appropriate chemical resistan	t gloves.	
of an impervious apron is recor	nmended.	
	irator if there is a risk of exposure	e to dust/fume at levels
0	e clothing, when necessary.	
asures, such as washing after ha	equirements. Always observe goo andling the material and before ea ning and protective equipment to	ating, drinking, and/or
	biological exposure limits noted cupational exposure to nuisance build be monitored and controlled. Dod general ventilation (typically 1 build be matched to conditions. If other engineering controls to mai bosure limits have not been estable as personal protective equipr ar safety glasses with side shield ar appropriate chemical resistant e of an impervious apron is recor e a NIOSH/MSHA approved resp eeding the exposure limits.	biological exposure limits noted for the ingredient(s). cupational exposure to nuisance dust (total and respirable) and re- ould be monitored and controlled. The pull be monitored and controlled. The general ventilation (typically 10 air changes per hour) should be outde be matched to conditions. If applicable, use process enclosure obther engineering controls to maintain airborne levels below recom- toosure limits have not been established, maintain airborne levels to a spersonal protective equipment ar safety glasses with side shields (or goggles). ar appropriate chemical resistant gloves. e of an impervious apron is recommended. e a NIOSH/MSHA approved respirator if there is a risk of exposure

Appearance Solid. Physical state Solid. Form 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	
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. Material is stable under normal conditions.
Chemical stability Possibility of hazardous	No dangerous reaction known under conditions of normal use.
reactions	No dangelous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Chlorine. Fluorine. 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 informat	ion
Information on likely routes of e	xposure
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.
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Information on toxicological effects

Acute toxicity

Not known.

Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation. Direct contact with eyes may cause temporary irritation.		
Serious eye damage/eye irritation	Direct contact with eyes m	ay 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.		
Carcinogenicity	inhaled from occupational overall evaluation, IARC n circumstances studied. Ca crystalline silica or on exter polymorphs." (IARC Mond humans, Silica, silicates d 2003, SCOEL (the EU Sci main effect in humans of t sufficient information to co silicosis (and, apparently, in the ceramic industry). T risk" (SCOEL SUM Doc protection against silicosis occupational exposure lim	tional Agency for Research on Cancer) concluded that crystalline silica sources can cause lung cancer in humans. However in making the oted that "carcinogenicity was not detected in all industrial arcinogenicity may be dependent on inherent characteristics of the ernal factors affecting its biological activity or distribution of its ographs on the evaluation of the carcinogenic risks of chemicals to ust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June entific Committee on Occupational Exposure Limits) concluded that the he inhalation of respirable crystalline silica dust is silicosis. "There is include that the relative risk of lung cancer is increased in persons with not in employees without silicosis exposed to silica dust in quarries and "herefore, preventing the onset of silicosis will also reduce the cancer 94-final, June 2003) According to the current state of the art, worker is can be consistently assured by respecting the existing regulatory its. May cause cancer. Occupational exposure to respirable dust and should be monitored and controlled.	
IARC Monographs. Overall I	Evaluation of Carcinogenie	city	
Amorphous Silica (CAS 7631-86-9) Cristobalite (CAS 14464-46-1) Titanium Dioxide (CAS 13463-67-7) OSHA Specifically Regulated Substances (29 CFR 1		 3 Not classifiable as to carcinogenicity to humans. 1 Carcinogenic to humans. 2B Possibly carcinogenic to humans. 0.1001-1052) 	
Cristobalite (CAS 14464-		Cancer	
US. National Toxicology Pro		rcinogens	
Cristobalite (CAS 14464-	46-1)	Known To Be Human Carcinogen. Reasonably Anticipated to be a Human Carcinogen.	
Reproductive toxicity	This product is not expected	ed 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 harmful. Prolonged exposure may cause chronic effects.	
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.		
Porsistance and degradability			
Persistence and degradability Bioaccumulative potential	No data is available on the degradability of any ingredients in the mixture. No data available.		
Mobility in soil	No data available.		
Other adverse effects		nental effects (e.g. ozone depletion, photochemical ozone creation	
Other adverse effects		tion, global warming potential) are expected from this component.	
13. Disposal consideration	าร		
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 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)

Cristobalite (CAS 14464-46-1)

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 Titanium Dioxide, 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

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))

Cristobalite (CAS 14464-46-1) 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)	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	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	02-27-2017
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	This document has undergone significant changes and should be reviewed in its entirety.