# SAFETY DATA SHEET



#### 1. Identification

**Product identifier** CASTABLE MIX 1005 X PC; CASTABLE MIX 1005 X PC W/HT

Other means of identification

**Brand Code** 0447, 7437

Recommended use For Industrial Use Only

Users should be informed of the potential presence of respirable dust and respirable crystalline **Recommended restrictions** 

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

HarbisonWalker International Company name

1305 Cherrington Parkway, Suite 100 **Address** 

Moon Township, Pennsylvania 15108 US

**Telephone** General Phone: 412-375-6600

www.thinkHWI.com Website

**Emergency phone number** CHEMTREC 24 HOUR 1-800-424-9300

**EMERGENCY #** 

# 2. Hazard(s) identification

#### Classified hazards

This item is defined as an article per OSHA (29 CFR 1910.1200) and is therefore exempt from labeling. A Safety Data Sheet is available.

This item is not hazardous per OSHA 29 CFR 1910.1200(c). However, individual customer processes (such as grinding, sawing, or blasting) may result in the formation of dust that may present health hazards. May cause respiratory irritation, lung injury, or cancer by inhalation. Limit skin contact. Wash hands after handling. Dispose of waste and residues in accordance with local authority requirements. Wear protective gloves/protective clothing/eye protection. Dust may cause cancer.

#### Label elements

This item is defined as an article per OSHA (29 CFR 1910.1200) and is therefore exempt from labeling. A Safety Data Sheet is available.

This item is not hazardous per OSHA 29 CFR 1910.1200(c). However, individual customer processes (such as grinding, sawing, or blasting) may result in the formation of dust that may present health hazards. May cause respiratory irritation, lung injury, or cancer by inhalation. Limit skin contact. Wash hands after handling. Dispose of waste and residues in accordance with local authority requirements. Wear protective gloves/protective clothing/eye protection. Dust may cause cancer.

# Hazard(s) not otherwise classified (HNOC)

This item is defined as an article per OSHA (29 CFR 1910.1200) and is therefore exempt from labeling. A Safety Data Sheet is available.

This item is not hazardous per OSHA 29 CFR 1910.1200(c). However, individual customer processes (such as grinding, sawing, or blasting) may result in the formation of dust that may present health hazards. May cause respiratory irritation, lung injury, or cancer by inhalation. Limit skin contact. Wash hands after handling. Dispose of waste and residues in accordance with local authority requirements. Wear protective gloves/protective clothing/eye protection. Dust may cause cancer.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Aluminium Oxide (Non-Fibrous)		1344-28-1	40 - 60
PRM0070- Ferrous Sulfate Monohydrate		17375-41-6	20 - 40
Mullite		1302-93-8	10 - 20
Fumes, Silica		69012-64-2	2.5 - 10
Quartz (SiO2)		14808-60-7	2.5 - 10

Material name: CASTABLE MIX 1005 X PC; CASTABLE MIX 1005 X PC W/HT 0447, 7437 Version #: 01 Issue date: 06-19-2015

Chemical name	Common name and synonyms	CAS number	%
Silicon Dioxide		7631-86-9	2.5 - 10
Cement, Alumina, Chemicals		65997-16-2	1 - 2.5
Diiron Trioxide		1309-37-1	1 - 2.5
Titanium Dioxide		13463-67-7	1 - 2.5
Cristobalite		14464-46-1	0.1 - 1
Other components below reportable levels	8		1 - 2.5

<sup>\*</sup>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** Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get

medical advice/attention. Wash contaminated clothing before reuse.

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and delayed

vision. Skin irritation. May cause redness and pain.

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** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Use fire-extinguishing media appropriate for surrounding materials.

Not available.

Not applicable.

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. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. 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

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

# Environmental precautions 7. Handling and storage

Precautions for safe handling

Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

# Occupational exposure limits

Aluminium Oxide (Non-Fibrous) (CAS   PEL   5 mg/m3   Respirable fraction.	US. OSHA Table Z-1 Limits for Air Components	Contaminants (29 CFR 1910.1000) Type	Value	Form
Dilrion Trioxide (CAS   PEL   10 mg/m3   Fume.   1309-37-1   11tanium Dioxide (CAS   PEL   15 mg/m3   Total dust.   13463-67-7   13463-67-7   15 mg/m3   Total dust.   145463-67-7   15 mg/m3   Total dust.   145463-67-7   15 mg/m3   Total dust.   14464-46-1   16 mg/m3   Respirable.   1.2 mppcf   Respirable.   1.3 mg/m3   Total dust.   14808-60-7   10.1 mg/m3   Respirable.   14808-60-7   10.1 mg/m3   Respirable.   1.4 mg/m3   Respirable fraction.   1.4 mg/m3   Respirable	(Non-Fibrous) (CAS	PEL	5 mg/m3	Respirable fraction.
1309-37-1	·		15 mg/m3	Total dust.
Titanium Dioxide (CAS   PEL   15 mg/m3   Total dust.		PEL	10 mg/m3	Fume.
Us. OSHA Table Z-3 (29 CFR 1910-1000)   Type	Titanium Dioxide (CAS	PEL	15 mg/m3	Total dust.
Cristobalite (CAS   TWA   0.15 mg/m3   Total dust.		.1000)		
14464-46-1)   Furnes, Silica (CAS   TWA   0.05 mg/m3   Respirable.	Components	Туре	Value	Form
Furnes, Silica (CAS   TWA   0.8 mg/m3   7 mg/m3   7 mg/m3   8 mg/m3   7 mg		TWA	0.15 mg/m3	Total dust.
Fumes, Silica (CAS   TWA   0.8 mg/m3   Fumes, Silica (CAS   TWA   0.8 mg/m3   Total dust.	·		0.05 mg/m3	Respirable.
Septrable   CAS   TWA   TAS   TAS			1.2 mppcf	Respirable.
Quartz (SiO2) (CAS   TWA   0.3 mg/m3   Total dust.		TWA	0.8 mg/m3	
Quartz (SiO2) (CAS 14808-60-7)         TWA         0.3 mg/m3 (2.4 mppcf)	,		20 mppcf	
Silicon Dioxide (CAS   TWA   2.4 mppcf   Respirable.		TWA		Total dust.
Silicon Dioxide (CAS   TWA   2.4 mppcf   0.8 mg/m3   7631-86-9)   20 mppcf   220 mppcf	14000-00-7)		0.1 mg/m3	Respirable.
Silicon Dioxide (CAS   TWA   20 mppcf			_	
US. ACGIH Threshold Limit Values	•	TWA	• •	•
Components	7631-86-9)		20 mppcf	
Aluminium Oxide				_
Non-Fibrous   CAS   1344-28-1)	Components		Value	Form
Cristobalitie (CAS 14464-46-1)         TWA         0.025 mg/m3 Respirable fraction.           Diiron Trioxide (CAS 1302-93-8)         TWA         5 mg/m3 Respirable fraction.           1309-37-1)         1 mg/m3 Respirable fraction.           PRM0070- Ferrous Sulfate Nonohydrate (CAS 17375-41-6)         TWA         1 mg/m3           Quartz (SiO2) (CAS 17375-41-6)         TWA         0.025 mg/m3 Respirable fraction.           Quartz (SiO2) (CAS 17375-41-6)         TWA 10 mg/m3         Respirable fraction.           Value (CAS 1309-37-7)         Titanium Dioxide (CAS 1740 10 mg/m3)         Respirable fraction.           US. NIOSH: Pocket Guide to Chemical Hazards         Value Form         Form           Cristobalite (CAS 1740 13 fibers/cm3 5 mg/m3 Fiber.         Fiber.           14464-46-1)         3 fibers/cm3 Dust. 5 mg/m3 Fiber, total fibers, total dust           Diiron Trioxide (CAS 1740 15 mg/m3 fibers, total dust         5 mg/m3 Dust and fume.           1309-37-1)         Fumes, Silica (CAS 6 mg/m3 6 m	(Non-Fibrous) (CAS	TWA	1 mg/m3	Respirable fraction.
Diiron Trioxide (CAS   TWA   5 mg/m3   Respirable fraction.	Cristobalite (CAS	TWA	0.025 mg/m3	Respirable fraction.
Mullite (CAS 1302-93-8)         TWA         1 mg/m3         Respirable fraction.           PRM0070- Ferrous Sulfate         TWA         1 mg/m3         Respirable fraction.           Monohydrate (CAS 17375-41-6)         Quartz (SiO2) (CAS         TWA         0.025 mg/m3         Respirable fraction.           Quartz (SiO2) (CAS         TWA         10 mg/m3         Respirable fraction.           14808-60-7)         Titanium Dioxide (CAS         TWA         10 mg/m3         Fiber.           US. NIOSH: Pocket Guide to Chemical Hazards         Components         Value         Form           Cristobalite (CAS         TWA         3 fibers/cm3         Fiber.           14464-46-1)         3 fibers/cm3         Dust.           5 mg/m3         Fiber, total           5 mg/m3         fibers, total dust           Diiron Trioxide (CAS         TWA         5 mg/m3         Dust and fume.           1309-37-1)         Fumes, Silica (CAS         TWA         6 mg/m3           69012-64-2)         PRM0070- Ferrous Sulfate         TWA         1 mg/m3           Monohydrate (CAS         TWA         0.05 mg/m3         Respirable dust.	Diiron Trioxide (CAS	TWA	5 mg/m3	Respirable fraction.
PRM0070- Ferrous Sulfate		TWA	1 mg/m3	Respirable fraction.
17375-41-6		TWA	_	·
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         Type         Value         Form           Cristobalite (CAS 14464-46-1)         TWA         3 fibers/cm3 Fiber.         Fiber.           14464-46-1)         3 fibers/cm3 Fiber, total         5 mg/m3 Fiber, total         5 mg/m3 Fiber, total dust           Diiron Trioxide (CAS TWA 5 mg/m3 Dust and fume.         1309-37-1)         Dust and fume.           Fumes, Silica (CAS TWA 6 mg/m3 69012-64-2)         TWA 1 mg/m3         6 mg/m3           PRM0070- Ferrous Sulfate Monohydrate (CAS 17375-41-6)         TWA 0.05 mg/m3 Respirable dust.           Quartz (SiO2) (CAS TWA 0.05 mg/m3 Respirable dust.         Respirable dust.				
14808-60-7)       Titanium Dioxide (CAS       TWA       10 mg/m3         13463-67-7)       US. NIOSH: Pocket Guide to Chemical Hazards       Components       Type       Value       Form         Cristobalite (CAS       TWA       3 fibers/cm3       Fiber.         14464-46-1)       3 fibers/cm3       Dust.         5 mg/m3       Fiber, total         5 mg/m3       fibers, total dust         5 mg/m3       Dust and fume.         1309-37-1)       Fumes, Silica (CAS       TWA       6 mg/m3         69012-64-2)       PRM0070- Ferrous Sulfate       TWA       1 mg/m3         Monohydrate (CAS       17375-41-6)         Quartz (SiO2) (CAS       TWA       0.05 mg/m3       Respirable dust.		T10/0	0.00E ma/m2	Despirable fraction
Titanium Dioxide (CAS         TWA         10 mg/m3           US. NIOSH: Pocket Guide to Chemical Hazards           Components         Type         Value         Form           Cristobalite (CAS         TWA         3 fibers/cm3         Fiber.           14464-46-1)         3 fibers/cm3         Dust.           5 mg/m3         Fiber, total         5 mg/m3         fibers, total dust           Diiron Trioxide (CAS         TWA         5 mg/m3         Dust and fume.           1309-37-1)         TWA         6 mg/m3         69012-64-2)           PRM0070- Ferrous Sulfate         TWA         1 mg/m3           Monohydrate (CAS         TWA         1 mg/m3           Monohydrate (CAS         TWA         0.05 mg/m3         Respirable dust.		IVVA	0.025 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide to Chemical Hazards         Type         Value         Form           Cristobalite (CAS 14464-46-1)         TWA         3 fibers/cm3         Fiber.           S mg/m3         Fiber, total         5 mg/m3         Fiber, total           Diiron Trioxide (CAS 1309-37-1)         TWA         5 mg/m3         Dust and fume.           Fumes, Silica (CAS 69012-64-2)         TWA         6 mg/m3           PRM0070- Ferrous Sulfate Monohydrate (CAS 17375-41-6)         TWA         1 mg/m3           Quartz (SiO2) (CAS         TWA         0.05 mg/m3         Respirable dust.	Titanium Dioxide (CAS	TWA	10 mg/m3	
Components         Type         Value         Form           Cristobalite (CAS 14464-46-1)         TWA         3 fibers/cm3         Fiber.           14464-46-1)         3 fibers/cm3         Dust.         5 mg/m3         Fiber, total           5 mg/m3         fibers, total dust         5 mg/m3         Dust and fume.           1309-37-1)         TWA         5 mg/m3         Dust and fume.           Fumes, Silica (CAS 69012-64-2)         TWA         6 mg/m3           PRM0070- Ferrous Sulfate Monohydrate (CAS 17375-41-6)         TWA         1 mg/m3           Quartz (SiO2) (CAS         TWA         0.05 mg/m3         Respirable dust.	·	nical Hazards		
14464-46-1)  14464-46-1)  3 fibers/cm3 Dust. 5 mg/m3 Fiber, total 5 mg/m3 fibers, total dust 5 mg/m3 Dust and fume.  Diiron Trioxide (CAS 1309-37-1)  Fumes, Silica (CAS 6 mg/m3 69012-64-2)  PRM0070- Ferrous Sulfate Monohydrate (CAS 17375-41-6) Quartz (SiO2) (CAS TWA 0.05 mg/m3 Respirable dust.			Value	Form
3 fibers/cm3   Dust.   5 mg/m3   Fiber, total   5 mg/m3   fibers, total   dust   5 mg/m3   Dust and fume.		TWA	3 fibers/cm3	Fiber.
5 mg/m3   Fiber, total   5 mg/m3   fibers, total   dust			3 fibers/cm3	Dust.
Diiron Trioxide (CAS TWA 5 mg/m3 fibers, total dust  Diiron Trioxide (CAS TWA 5 mg/m3 Dust and fume.  1309-37-1)  Fumes, Silica (CAS 6 mg/m3 69012-64-2)  PRM0070- Ferrous Sulfate TWA 1 mg/m3  Monohydrate (CAS 17375-41-6)  Quartz (SiO2) (CAS TWA 0.05 mg/m3 Respirable dust.				
Diiron Trioxide (CAS TWA 5 mg/m3 Dust and fume.  1309-37-1)  Fumes, Silica (CAS TWA 6 mg/m3 69012-64-2)  PRM0070- Ferrous Sulfate TWA 1 mg/m3  Monohydrate (CAS 17375-41-6)  Quartz (SiO2) (CAS TWA 0.05 mg/m3 Respirable dust.			_	
Fumes, Silica (CAS       TWA       6 mg/m3         69012-64-2)       PRM0070- Ferrous Sulfate       TWA       1 mg/m3         Monohydrate (CAS       17375-41-6)       CAS       TWA       0.05 mg/m3       Respirable dust.		TWA		
PRM0070- Ferrous Sulfate TWA 1 mg/m3  Monohydrate (CAS 17375-41-6)  Quartz (SiO2) (CAS TWA 0.05 mg/m3 Respirable dust.	Fumes, Silica (CAS	TWA	6 mg/m3	
17375-41-6) Quartz (SiO2) (CAS TWA 0.05 mg/m3 Respirable dust.	PRM0070- Ferrous Sulfate	TWA	1 mg/m3	
Quartz (SiO2) (CAS TWA 0.05 mg/m3 Respirable dust.				
	Quartz (SiO2) (CAS	TWA	0.05 mg/m3	Respirable dust.

**US. NIOSH: Pocket Guide to Chemical Hazards** 

 Components
 Type
 Value
 Form

 Silicon Dioxide (CAS
 TWA
 6 mg/m3

Biological limit values No biological exposure limits noted for the ingredient(s).

Exposure guidelines Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica

should be monitored and controlled.

Appropriate engineering

7631-86-9)

controls

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. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves.Other Wear appropriate chemical resistant clothing.

exceeding the exposure limits.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

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 Solid

Color Not available.

Odor Not available.

Odor threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Flash point

Evaporation rate

Flammability (solid, gas)

Not available.

Not available.

Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

Explosive limit - lower (%)

(%)

Not available.

Not available.

Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density 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.

# 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. 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** Prolonged inhalation may be harmful.

**Skin contact** Causes skin irritation.

**Eye contact** Causes serious eye irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. Skin irritation. May cause redness and pain.

# Information on toxicological effects

Acute toxicity Not available.

**Skin corrosion/irritation** Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye 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 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

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.

# IARC Monographs. Overall Evaluation of Carcinogenicity

Cristobalite (CAS 14464-46-1) 1 Carcinogenic to humans.

Diiron Trioxide (CAS 1309-37-1)

3 Not classifiable as to carcinogenicity to humans.

Fumes, Silica (CAS 69012-64-2)

3 Not classifiable as to carcinogenicity to humans.

Quartz (SiO2) (CAS 14808-60-7) 1 Carcinogenic to humans.

Silicon Dioxide (CAS 7631-86-9) 3 Not classifiable as to carcinogenicity to humans.

Titanium Dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

# US. National Toxicology Program (NTP) Report on Carcinogens

Cristobalite (CAS 14464-46-1) Known To Be Human Carcinogen.

Reasonably Anticipated to be a Human Carcinogen.

Known To Be Human Carcinogen.

# US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

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.

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

**Chronic effects** Prolonged inhalation may be harmful.

# 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.

**Persistence and degradability** No data is available on the degradability of this product.

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

Waste from residues / unused

products

Not applicable.

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 This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

One or more components are not listed on TSCA.

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)**

PRM0070- Ferrous Sulfate Monohydrate (CAS Listed.

17375-41-6)

# SARA 304 Emergency release notification

Not regulated.

# US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Chemical nameCAS number% by wt.Aluminium Oxide (Non-Fibrous)1344-28-140 - 60

#### 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

## US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

#### **US. Massachusetts RTK - Substance List**

Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)

Cristobalite (CAS 14464-46-1)

Diiron Trioxide (CAS 1309-37-1)

Fumes, Silica (CAS 69012-64-2)

PRM0070- Ferrous Sulfate Monohydrate (CAS 17375-41-6)

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

Silicon Dioxide (CAS 7631-86-9)

Titanium Dioxide (CAS 13463-67-7)

#### US. New Jersey Worker and Community Right-to-Know Act

Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)

Cristobalite (CAS 14464-46-1)

Diiron Trioxide (CAS 1309-37-1)

Fumes, Silica (CAS 69012-64-2)

PRM0070- Ferrous Sulfate Monohydrate (CAS 17375-41-6)

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

Silicon Dioxide (CAS 7631-86-9)

Titanium Dioxide (CAS 13463-67-7)

# US. Pennsylvania Worker and Community Right-to-Know Law

Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)

Cristobalite (CAS 14464-46-1)

Diiron Trioxide (CAS 1309-37-1)

Fumes, Silica (CAS 69012-64-2)

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

Silicon Dioxide (CAS 7631-86-9)

Titanium Dioxide (CAS 13463-67-7)

#### **US. Rhode Island RTK**

Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)

PRM0070- Ferrous Sulfate Monohydrate (CAS 17375-41-6)

#### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

# 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**

New Zealand

Philippines

Country(s) or region

ocuming (o) or region	involtory name	On involutory (yourno)
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)	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)	No

Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*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

New Zealand Inventory

Inventory name

**Issue date** 06-19-2015

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.

**Revision Information** Product and Company Identification: Product Codes

Composition / Information on Ingredients: Ingredients

Material name: CASTABLE MIX 1005 X PC; CASTABLE MIX 1005 X PC W/HT 0447, 7437 Version #: 01 Issue date: 06-19-2015

On inventory (yes/no)\*

Yes

No

No