

# SAFETY DATA SHEET

# 1. Identification

Product identifier	APG CRUCIBLES	
Other means of identification		
Brand Code	6705	
Recommended use	For Industrial Use Only	
Recommended restrictions	Avoid dry cutting, blasting, or dust generation.	
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer		
Company name	HarbisonWalker International	
Address	1305 Cherrington Parkway, Suite 100	
	Moon Township, Pennsylvania 15108 US	
Telephone	General Phone: 4	12-375-6600
Website	www.thinkHWI.com	
Emergency phone number	Not available.	

# 2. Hazard(s) identification

#### **Classified hazards**

This item is defined as an article per OSHA, REACH, and WHMIS and is therefore exempt from labeling. A Safety Data Sheet is available.

This item is not Classified as hazardous. However, individual customer processes (such as grinding, sawing, or blasting) may result in the formation of dust that may present health hazards. Wear protective gloves/protective clothing/eye protection.

#### Label elements

This item is defined as an article per OSHA, REACH, and WHMIS and is therefore exempt from labeling. A Safety Data Sheet is available.

This item is not Classified as hazardous. However, individual customer processes (such as grinding, sawing, or blasting) may result in the formation of dust that may present health hazards. Wear protective gloves/protective clothing/eye protection.

#### Hazard(s) not otherwise classified (HNOC)

This item is defined as an article per OSHA, REACH, and WHMIS and is therefore exempt from labeling. A Safety Data Sheet is available.

This item is not Classified as hazardous. However, individual customer processes (such as grinding, sawing, or blasting) may result in the formation of dust that may present health hazards. Wear protective gloves/protective clothing/eye protection.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Mullite		1302-93-8	50 - 70
Aluminium Oxide (Non-Fibrous)		1344-28-1	2.5 - 10
Kaolin		1332-58-7	2.5 - 10
Quartz (SiO2)		14808-60-7	2.5 - 10
Silica, Vitreous		60676-86-0	2.5 - 10
Diiron Trioxide		1309-37-1	1 - 2.5
Titanium Dioxide		13463-67-7	1 - 2.5
Other components below reportable le	evels		10 - 25

omponents below reportable levels

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. Wash off with soap and water. Get medical attention if irritation develops and persists. Skin contact

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	Treat symptomatically.
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 meas	sures
Personal precautions,	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. 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. 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	Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Observe good industrial hygiene practices.
Conditions for safe storage,	Store away from incompatible materials (see Section 10 of the SDS). No special storage

**Conditions for safe storage**, Store away from inincluding any incompatibilities precautions noted.

# 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
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Diiron Trioxide (CAS 1309-37-1)	PEL	10 mg/m3	Fume.
Kaolin (CAS 1332-58-7)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Quartz (SiO2) (CAS 14808-60-7)	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)		
Components	Туре	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
Diiron Trioxide (CAS 1309-37-1)	TWA	5 mg/m3	Respirable fraction.

# US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Туре	Value	Form
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
Kaolin (CAS 1332-58-7)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
Quartz (SiO2) (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
Silica, Vitreous (CAS 60676-86-0)	TWA	0.8 mg/m3	
		20 mppcf	
Titanium Dioxide (CAS 13463-67-7)	TWA	5 mg/m3	Respirable fraction.
,		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
US. ACGIH Threshold Lim	it Values		
Components	Туре	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.
Diiron Trioxide (CAS 1309-37-1)	TWA	5 mg/m3	Respirable fraction.
Kaolin (CAS 1332-58-7)	TWA	2 mg/m3	Respirable fraction.
Mullite (CAS 1302-93-8)	TWA	1 mg/m3	Respirable 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 Components	to Chemical Hazards Type	Value	Form
Diiron Trioxide (CAS	TWA	5 mg/m3	Dust and fume.
1309-37-1)		g	
Kaolin (CAS 1332-58-7)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Quartz (SiO2) (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
Silica, Vitreous (CAS 60676-86-0)	TWA	6 mg/m3	
ogical limit values	No biological exposure limits noted for	or the ingredient(s).	
osure guidelines	Occupational exposure to nuisance of should be monitored and controlled.	lust (total and respirable) and re	spirable crystalline silica
propriate engineering trols	Good general ventilation (typically 10 should be matched to conditions. If a or other engineering controls to main exposure limits have not been establ	pplicable, use process enclosur tain airborne levels below recom	es, local exhaust ventilation mended exposure limits.

#### Individual protection measures, such as personal protective equipment

Eye/face protection

Skin protection

Hand protection Other

**Respiratory protection** 

#### Thermal hazards



General hygiene considerations

Wear appropriate chemical resistant gloves.

Wear safety glasses with side shields (or goggles).

Wear suitable protective clothing.

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

Wear appropriate thermal protective clothing, when necessary.

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.
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 expl	osive 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.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
40 Otobility and reactivity	

# 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	No adverse effects due to inhalation are expected.
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	orts

Acute toxicity	Not available.	
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 Carcinogenicity 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 guarries 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. Not classifiable as to carcinogenicity to humans.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Diiron Trioxide (CAS 1309	9-37-1)	3 Not classifiable as to carcinogenicity to humans.
Quartz (SiO2) (CAS 14808	8-60-7)	1 Carcinogenic to humans.
Silica, Vitreous (CAS 6067	76-86-0)	3 Not classifiable as to carcinogenicity to humans.
Titanium Dioxide (CAS 13	463-67-7)	2B Possibly carcinogenic to humans.
OSHA Specifically Regulated	d Substances (29 CFR 1910.10	001-1052)
Quartz (SiO2) (CAS 14808	8-60-7)	Cancer
US. National Toxicology Prog	gram (NTP) Report on Carcine	ogens
Quartz (SiO2) (CAS 14808	8-60-7)	Known To Be Human Carcinogen.
Reproductive toxicity	This product is not expected to	cause reproductive or developmental effects.
Developmental effects		
Quartz (SiO2)		0
Developmental effects -	EU category	
Quartz (SiO2)		0

Embryotoxicity Quartz (SiO2) Reproductivity Quartz (SiO2)	0 0	
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
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 any ingredients in the mixture.	
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	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 not known to be 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

Cancer lung effects immune system effects kidney effects

Not listed.				
SARA 311/312 Hazardous chemical	No (Exempt)			
SARA 313 (TRI reporting)				
Chemical name		CAS number	% by wt.	_
Aluminium Oxide (Non-I	Fibrous)	1344-28-1	2.5 - 10	
er federal regulations				
Clean Air Act (CAA) Sectio	on 112 Hazardous Air	Pollutants (HAPs) List		
Not regulated. Clean Air Act (CAA) Section	n 112(r) Accidental P	Poloaso Provention (40 C	ED 68 120)	
Not regulated.	n 112(1) Accidental R	leiease Frevention (40 C	FK 00.130)	
Safe Drinking Water Act (SDWA)	Not regulated.			
state regulations				
California Proposition 65				
		e you to chemicals includir SiO2), which is known to t P65Warnings.ca.gov.		
· · · · · · · · · · · · · · · · · · ·	0			
	0	/Carcinogenic substanc	e	
California Proposition Quartz (SiO2) (CAS Titanium Dioxide (C	<b>65 - CRT: Listed date</b> 6 14808-60-7) CAS 13463-67-7)	Listed: Octob Listed: Septe	er 1, 1988 mber 2, 2011	
California Proposition Quartz (SiO2) (CAS Titanium Dioxide (C US. California. Candid	<b>65 - CRT: Listed date</b> 6 14808-60-7) CAS 13463-67-7)	Listed: Octob	er 1, 1988 mber 2, 2011	e Regs, tit. 22, 69502.3,
California Proposition Quartz (SiO2) (CAS Titanium Dioxide (C US. California. Candid subd. (a))	65 - CRT: Listed date 6 14808-60-7) CAS 13463-67-7) ate Chemicals List. S	Listed: Octob Listed: Septe	er 1, 1988 mber 2, 2011	e Regs, tit. 22, 69502.3,
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# 16. Other information, including date of preparation or last revision

Issue date	05-07-2015
Revision date	04-03-2020
Version #	04
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.

Product and Company Identification: Product and Company Identification Identification: Recommended restrictions Hazard(s) identification: Supplemental information Composition / Information on Ingredients: Ingredients Composition/information on ingredients: Component information Accidental release measures: Personal precautions, protective equipment and emergency procedures Accidental release measures: Methods and materials for containment and cleaning up Handling and storage: Conditions for safe storage, including any incompatibilities Stability and reactivity: Conditions to avoid Toxicological information: Acute toxicity Toxicological information: Carcinogenicity Ecological information: Persistence and degradability Regulatory information: California Proposition 65