

SAFETY DATA SHEET

1. Identification

Product identifier	ANKORBOND C
Other means of identification	
Brand Code	1106
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/Importer/Supplier/Distributor information

Manufacturer			
Company name	HarbisonWalker Internationa	al	
Address	1305 Cherrington Parkway, Suite 100		
	Moon Township, Pennsylvar	nia 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
	Specific target organ toxicity, repeated exposure	Category 1
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		



Signal word	Danger
Hazard statement	May cause cancer. Causes damage to organs through prolonged or repeated exposure.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If exposed or 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	%
Aluminium Oxide (Non-Fibrous)		1344-28-1	10 - 20
Kaolin		1332-58-7	10 - 20
Mullite		1302-93-8	10 - 20
Amorphous Silica	SILICA, AMORPHOUS, FUMED SILICA (CRYSTALLINE FREE)	7631-86-9	2.5 - 10
Graphite		7782-42-5	2.5 - 10
Quartz (SiO2)		14808-60-7	2.5 - 10
Titanium Dioxide		13463-67-7	1 - 2.5
Cristobalite		14464-46-1	0.1 - 1
Phenol		108-95-2	0.1 - 1
Formaldehyde		50-00-0	0 - 0.1
Other components below reportable levels			20 - 40

*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. Prolonged exposure may cause chronic effects.
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. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing modia	Les fire-extinguishing media appropriate for surrounding materials

Suitable extinguishing media Unsuitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials. 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. Do not breathe dust. 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	Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). 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. Never return spills to original containers for re-use. 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. 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. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. 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

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	7-1 l im	its for	Δir	Contaminants	(29 CFR	1910 1000)
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Components	Туре	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Cristobalite (CAS 14464-46-1)	PEL	0.05 mg/m3	
Graphite (CAS 7782-42-5)	PEL	5 mg/m3 15 mg/m3	Respirable fraction. Total dust.
Kaolin (CAS 1332-58-7)	PEL	5 mg/m3 15 mg/m3	Respirable fraction. Total dust.
Quartz (SiO2) (CAS 4808-60-7)	PEL	0.05 mg/m3	
Titanium Dioxide (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.
JS. 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.
Amorphous Silica (CAS /631-86-9)	TWA	0.8 mg/m3	
		20 mppcf	
Cristobalite (CAS 14464-46-1)	TWA	0.05 mg/m3	Respirable.
		1.2 mppcf	Respirable.
Graphite (CAS 7782-42-5)	TWA	15 mppcf	
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 4808-60-7)	TWA	0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
Fitanium Dioxide (CAS 13463-67-7)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf 15 mppcf	Total dust. Respirable fraction.

US. ACGIH Threshold Limit			F a	
Components	Туре	Value	Form	
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.	
Cristobalite (CAS 14464-46-1)	TWA	0.025 mg/m3	Respirable fraction.	
Graphite (CAS 7782-42-5)	TWA	2 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 t Components	o Chemical Hazards Type	Value	Form	
-	TWA	6 mg/m3		
Amorphous Silica (CAS 7631-86-9)	TWA	8 119/113		
Graphite (CAS 7782-42-5)	TWA	2.5 mg/m3	Respirable.	
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.	
Biological limit values	No biological exposure limits noted f	for the ingredient(s).		
Appropriate engineering ontrols	 and respirable crystalline silica should be monitored and controlled. The resin binder in this product was specifically engineered to have low toxicity, with minimal free-phenol (less than 100ppm in this refractory product) and no free-formaldehyde. Under certair conditions, thermal decomposition products may still include carbon monoxide, carbon dioxide, formaldehyde, phenol and aromatic and/or aliphatic compounds. 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. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. 			
ndividual protection measures Eye/face protection	, such as personal protective equipr Chemical respirator with organic var	nent		
Skin protection Hand protection	Wear appropriate chemical resistant	t gloves.		
Other	Use of an impervious apron is recon	nmended.		
Respiratory protection	Use a NIOSH/MSHA approved resp exceeding the exposure limits.	Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.		
Thermal hazards	Wear appropriate thermal protective	Wear appropriate thermal protective clothing, when necessary.		
General hygiene onsiderations	Observe any medical surveillance re measures, such as washing after ha smoking. Routinely wash work cloth	indling the material and before ea	ating, drinking, and/or	

9. Physical and chemical properties

Appearance

Physical state	Solid.
Form	Powder.

•	
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	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.
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.
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. Refractories containing crystalline silica may, after service, contain more or less crystalline silica. Care must be taken to avoid and/or control dust from demolition. If in doubt of the proper protection, seek advice from a safety professional. The organic binder in this product falls into a class known as phenolic resin. Refractory products using this type of binder are supplied in two forms, (1) shaped products such as brick and (2) monolithics/specialties such as refractory plastics and rams. The hazards associated with phenolic resin are different in the two forms. For pre-cured shapes (brick), the binder has been reacted or polymerized by heat to its solid form prior to shipment. On decomposition by heating, where there is sufficient air and heating rate, the gaseous products during heat-up and early service may include phenol, as well as aromatic and/or aliphatic derivatives. After a campaign in service, this refractory product should be completely coked and in that condition the material for disposal would be carbon and an inorganic oxide. During field installation of non-cured unshaped products (monolithics), there is a possibility of exposure to trace amounts of phenol by skin contact and inhalation. After the product has been heated to high temperatures in service, it will have similar decomposition characteristics to pre-cured shapes.
Incompatible materials	Acids. Powerful oxidizers. Fluorine. Chlorine. 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

Information on likely routes of e	xposure		
Inhalation	May cause damage to organs irritate respiratory system.	through prolonged or repeated exposure by inhalation. Dust may	
Skin contact	Dust or powder may irritate the skin.		
Eye contact	Dust may irritate the eyes.		
Ingestion	Expected to be a low ingestion	n hazard.	
Symptoms related to the physical, chemical and toxicological characteristics	Dusts may irritate the respirat	ory tract, skin and eyes.	
Information on toxicological effe	ects		
Acute toxicity	Not known.		
Skin corrosion/irritation	Prolonged skin contact may c	ause 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 t		
Germ cell mutagenicity	mutagenic or genotoxic.	product or any components present at greater than 0.1% are	
Carcinogenicity	inhaled from occupational sou overall evaluation, IARC noted circumstances studied. Carcin crystalline silica or on externa polymorphs." (IARC Monogra humans, Silica, silicates dust 2003, SCOEL (the EU Scienti main effect in humans of the i sufficient information to conclu- silicosis (and, apparently, not in the ceramic industry). Ther risk" (SCOEL SUM Doc 94- protection against silicosis can occupational exposure limits.	hal Agency for Research on Cancer) concluded that crystalline silica aurces can cause lung cancer in humans. However in making the d that "carcinogenicity was not detected in all industrial hogenicity may be dependent on inherent characteristics of the l factors affecting its biological activity or distribution of its aphs on the evaluation of the carcinogenic risks of chemicals to and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June fic Committee on Occupational Exposure Limits) concluded that the nhalation of respirable crystalline silica dust is silicosis. "There is ude that the relative risk of lung cancer is increased in persons with in employees without silicosis exposed to silica dust in quarries and refore, preventing the onset of silicosis will also reduce the cancer final, June 2003) According to the current state of the art, worker n be consistently assured by respecting the existing regulatory May cause cancer. Occupational exposure to respirable dust and ould be monitored and controlled.	
• •	Evaluation of Carcinogenicity		
Amorphous Silica (CAS 7 Cristobalite (CAS 14464- Quartz (SiO2) (CAS 1480 Titanium Dioxide (CAS 13 US. National Toxicology Pro	46-1) 08-60-7)	 3 Not classifiable as to carcinogenicity to humans. 1 Carcinogenic to humans. 1 Carcinogenic to humans. 2B Possibly carcinogenic to humans. 1000000000000000000000000000000000000	
Cristobalite (CAS 14464-46-1) Known To Be Human Carcinogen.		Known To Be Human Carcinogen. Reasonably Anticipated to be a Human Carcinogen.	
Quartz (SiO2) (CAS 1480 US. OSHA Specifically Regu Not regulated.	08-60-7) ulated Substances (29 CFR 19	Known To Be Human Carcinogen. 10.1001-1050)	
Reproductive toxicity	This product is not expected t	o cause reproductive or developmental effects.	
Developmental effects			
Quartz (SiO2)		0	
Developmental effects -	· EU category		
Quartz (SiO2) Embryotoxicity		0	
Quartz (SiO2)		0	
Reproductivity		0	
Quartz (SiO2) Specific target organ toxicity -	Not classified.	U	
specific target organ toxicity - single exposure	וזטנ טמססוווכע.		

Specific target organ toxicity - repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.
12. Ecological information	I
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	
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 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.

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

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - No Delayed Hazard - Yes Fire Hazard - No
	Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

chemical				
SARA 313 (TRI reporting)	C	AS number	9/ by wet	
Chemical name		AS number	% by wt.	
Aluminium Oxide (Non-Fi	ibrous) 13	344-28-1	10 - 20	
her federal regulations				
Clean Air Act (CAA) Section	112 Hazardous Air Polluta	nts (HAPs) List		
Not regulated. Clean Air Act (CAA) Section	112(r) Accidental Polocoa	Brovention (40 Cl	ED 69 120)	
. ,	i i i z(i) Accidental Release	Frevention (40 Ci	FR 00.130)	
Not regulated. Safe Drinking Water Act	Not regulated.			
(SDWA)	Not regulated.			
state regulations	WARNING: This product co	ontains a chemical	known to the State of	California to cause cancer.
US - California Proposit	tion 65 - CRT: Listed date/C	arcinogenic subs	stance	
Formaldehyde (CAS	50-00-0)	Listed: Januar	ry 1, 1988	
Quartz (SiO2) (CAS		Listed: Octobe		
Titanium Dioxide (CA		Listed: Septer		
LIS California Candida			Dogulations (Cal. C	ada Daga tit 22 606022
	te Chemicals List. Safer Co	nsumer Products	Regulations (Cal. Co	de Regs, III. 22, 69502.5,
subd. (a))		nsumer Products	Regulations (Cal. Co	oue Reys, iii. 22, 69502.3,
subd. (a)) Cristobalite (CAS 14	464-46-1)	nsumer Products	s Regulations (Cal. Co	oue Reys, III. 22, 09502.5,
subd. (a)) Cristobalite (CAS 14 Quartz (SiO2) (CAS	464-46-1) 14808-60-7)	nsumer Products		oue Reys, III. 22, 69502.3,
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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	03-06-2015
Revision date	10-11-2017
Version #	02
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 Composition / Information on Ingredients: Ingredients Toxicological Information: Toxicological Data Transport Information: Hazreg Values Transportation