SAFETY DATA SHEET



1. Identification

Product identifier ARK-70

Other means of identification

Brand Code 0385

Recommended use For Industrial 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 Pennsylvania 15108

US

Telephone General Phone: 412-375-6600

Websitewww.thinkHWI.comEmergency phone numberNot available.SupplierNot available.

2. Hazard 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.

Other 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.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
ALPHA-ALUMINA		1344-28-1	40 - 60
Mullite		1302-93-8	20 - 40
SILICA, AMORPHOUS, FUMED	Fumed Silica Silica, crystalline free	7631-86-9	10 - 25
SILICA, CRYSTALLINE, CRISTOBALITE		14464-46-1	10 - 25
SILICA, CRYSTALLINE, QUARTZ		14808-60-7	2.5 - 10
Titanium Dioxide		13463-67-7	1 - 2.5

Material name: ARK-70 SDS CANADA

0385 Version #: 02 Revision date: 11-01-2021 Issue date: 07-24-2017

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

Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

treatment needed
General information

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible).

5. Fire-fighting measures

Suitable extinguishing media

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 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. 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.

Use fire-extinguishing media appropriate for surrounding materials.

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. 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 away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
ALPHA-ALUMINA (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.
Mullite (CAS 1302-93-8)	TWA	1 mg/m3	Respirable fraction.
SILICA, CRYSTALLINE, CRISTOBALITE (CAS 14464-46-1)	TWA	0.025 mg/m3	Respirable fraction.
SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Titanium Dioxide (CAS 13463-67-7)	TWA	10 mg/m3	

Material name: ARK-70 SDS CANADA

0385 Version #: 02 Revision date: 11-01-2021 Issue date: 07-24-2017

SILICA, CRYSTALLINE, TWA 0.025 mg/m3 Respirable particles QUARTZ (CAS 14808-60-7) Titanium Dioxide (CAS TWA 10 mg/m3 13463-67-7) Titanium Dioxide (CAS TWA 10 mg/m3 13463-67-7) Titanium Dioxide (CAS Type Value Form	Components	Туре	Value	Form
CRISTOBALITE (CAS 14464-46-1) SILICA, CRYSTALLINE, TWA 0.025 mg/m3 Respirable particles (CAS 14808-60-7) Titanium Dioxide (CAS TWA 10 mg/m3 13463-67-7) Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) Components Type Value Form ALPHA-ALUMINA (CAS TWA 1 mg/m3 Respirable. ALPHA-ALUMINA (CAS TWA 1 mg/m3 Respirable fraction. CRISTOBALITE (CAS TALLINE, TWA 0.025 mg/m3 Respirable fraction. CRISTOBALITE (CAS TALLINE, TWA 3 mg/m3 Respirable fraction. CARRA (CAS TABLIANE) TWA 1 mg/m3 Respirable fraction. CARRA (CAS TABLIANE) TWA 1 mg/m3 Respirable fraction. CARRA (CARS TALLINE, TWA 0.025 mg/m3 Respirable fraction. TARA 0.0477 (CAS 14808-60-7) TITALINI DIOXIDE (CAS TABLINE, TWA 0.05 mg/m3 Respirable fraction. CARRA (CAS TALLINE, TWA 0.05 mg/m3 Respirable fraction. CARRA (CAS TALLIN		TWA	10 mg/m3	
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13463-67-7		TWA	0.025 mg/m3	Respirable particles
Safety Regulation 296/97, as amended		TWA	10 mg/m3	
Components Type Value Form ALPHA-ALUMINA (CAS 1302-93-8) TWA 1 mg/m3 Respirable. Mullite (CAS 1302-93-8) TWA 1 mg/m3 Respirable. SILICA, AMORPHOUS, FUMED (CAS 7631-86-9) TWA 4 mg/m3 Total FUMED (CAS 7631-86-9) 1.5 mg/m3 Respirable. SILICA, CRYSTALLINE, CRYSTALLINE, CRISTOBALITE (CAS 14460-46-1) TWA 0.025 mg/m3 Respirable fraction. GUARTZ (CAS 14808-60-7) TWA 3 mg/m3 Respirable fraction. Tittanium Dioxide (CAS 1302-83-8) TWA 3 mg/m3 Respirable fraction. Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) Form Form Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) Form ALPHA-ALUMINA (CAS 1302-93-8) TWA 1 mg/m3 Respirable fraction. Mullite (CAS 1302-93-8) TWA 1 mg/m3 Respirable fraction. SILICA, CRYSTALLINE, CRISTOBALITE (CAS 14808-60-7) TWA 0.025 mg/m3 Respirable fraction. QUARTZ (CAS 14808-60-7) TWA 1 mg/m3 Respirable fraction. SILIC			s for Chemical Substances, Oc	cupational Health and
Mullite (CAS 1302-93-8)	-	-	Value	Form
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SILICA, CRYSTALLINE, TWA 0.025 mg/m3 Respirable.	Mullite (CAS 1302-93-8)	TWA	1 mg/m3	Respirable.
SILICA, CRYSTALLINE, CAS		TWA	4 mg/m3	Total
CRISTOBALITE (CAS 14464-46-1) SILICA, CRYSTALLINE,			1.5 mg/m3	Respirable.
QUARTZ (CAS 14808-60-7) Titanium Dioxide (CAS TWA 3 mg/m3 Respirable fraction. 13463-67-7) 10 mg/m3 Total dust. Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) Components Type Value Form ALPHA-ALUMINA (CAS TWA 1 mg/m3 Respirable fraction. 1344-28-1) Mullite (CAS 1302-93-8) TWA 1 mg/m3 Respirable fraction. 1344-28-1) Mullite (CAS 1302-93-8) TWA 0.025 mg/m3 Respirable fraction. 1464-46-1) SILICA, CRYSTALLINE, TWA 0.025 mg/m3 Respirable fraction. 1514-164-164-164-164-164-164-164-164-164-1	CRISTOBALITE (CAS	TWA	0.025 mg/m3	Respirable fraction.
13463-67-7)		TWA	0.025 mg/m3	Respirable fraction.
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1344-28-1) Mullite (CAS 1302-93-8) TWA 1 mg/m3 Respirable fraction. SILICA, CRYSTALLINE, CRISTOBALITE (CAS 14464-46-1) SILICA, CRYSTALLINE, TWA 0.05 mg/m3 Respirable fraction. OUARTZ (CAS 14808-60-7) Titanium Dioxide (CAS TWA 10 mg/m3	Components	Туре	Value	Form
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CRISTOBALITE (CAS 14464-46-1) SILICA, CRYSTALLINE, TWA 0.1 mg/m3 Respirable fraction. QUARTZ (CAS 14808-60-7) Titanium Dioxide (CAS TWA 10 mg/m3	Mullite (CAS 1302-93-8)	TWA	1 mg/m3	Respirable fraction.
QUARTZ (CAS 14808-60-7) Titanium Dioxide (CAS TWA 10 mg/m3		TWA	0.05 mg/m3	Respirable fraction.
	14464-46-1) SILICA, CRYSTALLINE,	TWA	0.1 mg/m3	Respirable fraction.

Canada. Quebec OELs. (Ministry o Components	Туре	Value	Form
ALPHA-ALUMINA (CAS 1344-28-1)	TWA	10 mg/m3	Total dust.
SILICA, AMORPHOUS, FUMED (CAS 7631-86-9)	TWA	6 mg/m3	Respirable dust.
SILICA, CRYSTALLINE, CRISTOBALITE (CAS 14464-46-1)	TWA	0.05 mg/m3	Respirable dust.
SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable dust.
Titanium Dioxide (CAS 13463-67-7)	TWA	10 mg/m3	Total dust.
Canada. Saskatchewan OELs (Occ Components	upational Health and Safety Type	Regulations, 1996, Table 21) Value	Form

Components	Туре	Value	Form
ALPHA-ALUMINA (CAS 1344-28-1)	15 minute	20 mg/m3	
	8 hour	10 mg/m3	
Mullite (CAS 1302-93-8)	15 minute	20 mg/m3	Dust.
	8 hour	10 mg/m3	Dust.
SILICA, CRYSTALLINE, CRISTOBALITE (CAS 14464-46-1)	15 minute	10 mg/m3	Inhalable fraction.
	8 hour	0.05 mg/m3	Respirable fraction.
SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)	8 hour	0.05 mg/m3	Respirable fraction.
Titanium Dioxide (CAS 13463-67-7)	15 minute	20 mg/m3	
	8 hour	10 mg/m3	

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

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

should be monitored and controlled.

Appropriate engineering

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.

Individual protection measures, such as personal protective equipment

Eye/face protection If contact is likely, safety glasses with side shields are recommended.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Use of an impervious apron is recommended.

exceeding the exposure limits.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.







General hygiene considerations

Observe any medical surveillance requirements. 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 Brick or Cast Shape 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 Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive 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 Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Explosive properties Not explosive. **Oxidizing properties** Not oxidizing.

10. Stability and reactivity

ReactivityThe 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 avoidContact 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 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.

Information on toxicological effects

Acute toxicity Not known.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious eve damage/eve Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Canada - Alberta OELs: Irritant SILICA, CRYSTALLINE, CRISTOBALITE (CAS

Irritant

Irritant

14464-46-1)

Titanium Dioxide (CAS 13463-67-7)

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 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. May cause cancer. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.

A4 Not classifiable as a human carcinogen.

A4 Not classifiable as a human carcinogen.

A4 Not classifiable as a human carcinogen.

Detected carcinogenic effect in animals.

Suspected carcinogenic effect in humans.

3 Not classifiable as to carcinogenicity to humans.

A2 Suspected human carcinogen.

A2 Suspected human carcinogen.

ACGIH Carcinogens

ALPHA-ALUMINA (CAS 1344-28-1)

Mullite (CAS 1302-93-8)

SILICA, CRYSTALLINE, CRISTOBALITE (CAS

14464-46-1)

SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)

Titanium Dioxide (CAS 13463-67-7)

Canada - Alberta OELs: Carcinogen category

SILICA, CRYSTALLINE, CRISTOBALITE (CAS

14464-46-1)

SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)

Canada - Manitoba OELs: carcinogenicity

ALPHA-ALUMINA (CAS 1344-28-1)

Mullite (CAS 1302-93-8)

SILICA, CRYSTALLINE, CRISTOBALITE (CAS

14464-46-1)

SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)

Titanium Dioxide (CAS 13463-67-7)

Canada - Quebec OELs: Carcinogen category

SILICA, CRYSTALLINE, CRISTOBALITE (CAS

14464-46-1)

SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)

IARC Monographs. Overall Evaluation of Carcinogenicity

SILICA, AMORPHOUS, FUMED (CAS 7631-86-9)

14464-46-1)

SILICA, CRYSTALLINE, CRISTOBALITE (CAS

SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)

SILICA, CRYSTALLINE, QUARTZ (CAS 14808-60-7)

Titanium Dioxide (CAS 13463-67-7)

SILICA, CRYSTALLINE, CRISTOBALITE (CAS

US. National Toxicology Program (NTP) Report on Carcinogens

14464-46-1)

Known To Be Human Carcinogen.

1 Carcinogenic to humans.

1 Carcinogenic to humans.

Reasonably Anticipated to be a Human Carcinogen.

2B Possibly carcinogenic to humans.

Known To Be Human Carcinogen.

Material name: ARK-70

SDS CANADA

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Developmental effects

SILICA, CRYSTALLINE, QUARTZ 0

Developmental effects - EU category

SILICA, CRYSTALLINE, QUARTZ 0

Embryotoxicity

SILICA, CRYSTALLINE, QUARTZ 0

Reproductivity

SILICA, CRYSTALLINE, QUARTZ 0

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard Not an aspiration hazard.

Chronic effectsCauses damage to organs through prolonged or repeated exposure. 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 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 instructionsThis 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 codeSince 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

TDG

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

Canadian regulations This product has been classified in accordance with the hazard criteria of the HPR and the SDS

contains all the information required by the HPR.

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
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)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

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)

Taiwan Chemical Substance Inventory (TCSI)

16. Other information

Taiwan

 Issue date
 07-24-2017

 Revision date
 11-01-2021

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 This document has undergone significant changes and should be reviewed in its entirety.

Material name: ARK-70 SDS CANADA

0385 Version #: 02 Revision date: 11-01-2021 Issue date: 07-24-2017

Yes

No

A "No" indicates that one or more components of this product are not listed or exempt from listing on the inventory administered by the governing country(s).