HWI

## SAFETY DATA SHEET

HarbisonWalker International

## 1. Identification

Product identifier
Other means of identification

Brand Code
Recommended use
Recommended restrictions

ON-LINE 70G

0655, 441C
For Industrial Use Only
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: |
| Website | www.thinkHWI.com |
| Emergency phone number | Not available. |

2. Hazard(s) identification

Physical hazards
Health hazards
Environmental hazards
OSHA defined hazards
Label elements

## Signal word

Hazard statement
Precautionary statement
Prevention

Response
Storage
Disposal
Hazard(s) not otherwise
classified (HNOC)
Supplemental information

Not classified.
Carcinogenicity
Not classified.
Not classified.

Danger
May cause cancer.

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.
If exposed or concerned: Get medical advice/attention.
Store in a manner to minimize airborne dust.
Dispose of contents/container in accordance with local/regional/national/international regulations.
None known.

None.

## 3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | $\%$ |
| :--- | :--- | :---: | :---: |
| Aluminium Oxide (Non-Fibrous) |  | $1344-28-1$ | $30-50$ |
| Mullite |  | $1302-93-8$ | $30-50$ |
| Amorphous Silica | Fumed Silica <br> Silica, crystalline free | $7631-86-9$ | $10-25$ |
| Cement, Alumina, Chemicals |  | $65997-16-2$ | $2.5-10$ |
| Fumes, Silica |  | $69012-64-2$ | $2.5-10$ |
| Titanium Dioxide | $13463-67-7$ | $1-2.5$ |  |

Chemical name
Cristobalite
Other components below
Crystalline silica may be pre
sands.
4. First-aid measures
Inhalation
Skin contact
Eye contact
Ingestion
Most important
symptoms/effects, acute and
delayed
Indication of immediate
medical attention and special
treatment needed
General information

## 5. Fire-fighting measures

Suitable extinguishing media
Unsuitable extinguishing media
Specific hazards arising from the chemical
Special protective equipment
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.
Rinse with water. Get medical attention if irritation develops and persists.
Rinse mouth. Get medical attention if symptoms occur.
Direct contact with eyes may cause temporary irritation.

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

IF exposed or concerned: Get medical advice/attention. 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
Methods and materials for containment and cleaning up

Environmental precautions

## 7. Handling and storage

Precautions for safe handling

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.
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.
Avoid discharge into drains, water courses or onto the ground.

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, Store in tightly closed container. Store away from incompatible materials (see Section 10 of the including any incompatibilities 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) <br> Type | Value | Form |  |
| :--- | :--- | :--- | :--- |
| Aluminium Oxide <br> (Non-Fibrous) (CAS <br> $1344-28-1)$ | PEL | $5 \mathrm{mg} / \mathrm{m} 3$ | Respirable fraction. |
| Cristobalite (CAS  $15 \mathrm{mg} / \mathrm{m} 3$ | Total dust. |  |  |
| $14464-46-1)$ | PEL | $0.05 \mathrm{mg} / \mathrm{m} 3$ | Respirable dust. |

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

$69012-64-2$ )
Titanium Dioxide (CAS
$13463-67-7$ ) TWA

| Components | Type | Value | Form |
| :--- | :--- | :--- | :--- |
| Aluminium Oxide <br> (Non-Fibrous) (CAS <br> $1344-28-1)$ | TWA | $1 \mathrm{mg} / \mathrm{m} 3$ | Respirable fraction. |
| Cristobalite (CAS TWA $0.025 \mathrm{mg} / \mathrm{m} 3$ | Respirable fraction. |  |  |
| 14464-46-1) | TWA | $1 \mathrm{mg} / \mathrm{m3}$ | Respirable fraction. |
| Mullite (CAS 1302-93-8) | TWA | $10 \mathrm{mg} / \mathrm{m3}$ |  |

13463-67-7)

| US. NIOSH: Pocket Guide to Chemical Hazards <br> Components | Type | Value | Form |
| :--- | :--- | :--- | :--- |
| Amorphous Silica (CAS <br> $7631-86-9)$ | $6 \mathrm{mg} / \mathrm{m} 3$ |  |  |
| Cristobalite (CAS <br> $14464-46-1)$ <br> Fumes, Silica (CAS | TWA | $0.05 \mathrm{mg} / \mathrm{m} 3$ | Respirable dust. |
| TWA | TWA | $6 \mathrm{mg} / \mathrm{m} 3$ |  |


| 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 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 | Wear safety glasses with side shields (or goggles). |
| Skin protection |  |
| Hand protection | Wear appropriate chemical resistant gloves. |
| Material name: ON-LINE 70G | sDs us |
| 0655, 441C Version \#: 01 | (e: 05-22-2015 3 / 7 |

Other
Respiratory protection
Thermal hazards

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.


General hygiene
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 | 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 range | Not available. |
| 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 (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
Chemical stability
Possibility of hazardous reactions

Conditions to avoid

The product is stable and non-reactive under normal conditions of use, storage and transport. Material is stable under normal conditions.

No dangerous reaction known under conditions of normal use.

Contact with incompatible materials

[^0]Acids. 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 information

| Information on likely routes of exposure <br> 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 <br> physical, chemical and <br> toxicological characteristics | Direct contact with eyes may cause temporary irritation. |
| Information on toxicological effects |  |
| Acute toxicity Not known. <br> Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. <br> Serious eye damage/eye Direct contact with eyes may cause temporary irritation. |  |

## irritation

Respiratory or skin sensitization

Respiratory sensitization
Skin sensitization
Germ cell mutagenicity

Not a respiratory sensitizer.
This product is not expected to cause skin sensitization.
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.

## IARC Monographs. Overall Evaluation of Carcinogenicity

Amorphous Silica (CAS 7631-86-9) 3 Not classifiable as to carcinogenicity to humans.
Cristobalite (CAS 14464-46-1)
Fumes, Silica (CAS 69012-64-2)
Titanium Dioxide (CAS 13463-67-7)

## OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

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.

Reproductive toxicity
Specific target organ toxicity single exposure

Specific target organ toxicity repeated exposure
Aspiration hazard
Chronic effects

1 Carcinogenic to humans.
3 Not classifiable as to carcinogenicity to humans.
2B Possibly carcinogenic to humans.

## Cristobalite (CAS 14464-46-1) Cancer

This product is not expected to cause reproductive or developmental effects.
Not classified.

Not classified.

Not an aspiration hazard.
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 <br> 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 <br> potential, endocrine disruption, global warming potential) are expected from this component. |

## 13. Disposal considerations

## Disposal instructions

## Hazardous waste code

## Waste from residues / unused

 productsContaminated 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. 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)

| Chemical name | CAS number | \% by wt. |
| :--- | :---: | :--- |
| Aluminium Oxide (Non-Fibrous) | $1344-28-1$ | $30-50$ |

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 chemicals including Titanium Dioxide: Titanium Dioxide: 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
Quartz (SiO2) (CAS 14808-60-7) Listed: October 1, 1988
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 | No |
|  | Substances (EINECS) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | Yes |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory | No |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances | Yes |
|  | (PICCS) | Yes |
| Taiwan | Taiwan Chemical Substance Inventory (TCSI) |  |
| United States \& Puerto Rico Toxic Substances Control Act (TSCA) Inventory <br> *A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)  <br> 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  <br> country(s).  |  |  |

## 16. Other information, including date of preparation or last revision

Issue date
Version \#
Disclaimer

Revision information

05-22-2015
01
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 Codes
Composition / Information on Ingredients: Ingredients


[^0]:    Material name: ON-LINE 70G
    SDS US

