1. Identification of the substance or mixture and of the supplier

1.1 GHS product identifier

KAST-O-LITE 20 PLUS

1.2 Other means of identification

Brand Code
6383, 484B, 792B

1.3 Recommendations and restrictions on the use of substances or mixtures

Recommended use
For Industrial or Professional 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.

1.4 Supplier’s details

Manufacturer
HarbisonWalker International

Company name
HarbisonWalker International

Address
1305 Cherrington Parkway, Suite 100
Moon Township Pennsylvania 15108

United States

Telephone
General Phone: 412-375-6600

Website
www.thinkHWI.com

E-mail
sds@thinkhwi.com

Contact person
Product Safety Specialist

1.5 Emergency phone number

CHEMTREC 24 HOUR
1-800-424-9300

2. Hazards identification

2.1 GHS classification of substance or mixture, and national or regional information

Physical hazards
Not classified.

Health hazards
Carcinogenicity
Category 1A

Environmental hazards
Not classified.

2.2 GHS label elements

Hazard symbol(s)

Signal word
Danger

Hazard statement(s)
May cause cancer.

Precautionary statement(s)

Prevention
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.

Response
IF exposed or concerned: Get medical advice/attention.

Storage
Store away from incompatible materials.

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards which do not result in GHS classification

None known.

Supplemental information
None.

3. Composition/information on ingredients

3.2 Mixture

<table>
<thead>
<tr>
<th>Chemical identity</th>
<th>Common name and synonym</th>
<th>CAS number and other unique identifiers</th>
<th>Concentration or concentration range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cement, Alumina, Chemicals</td>
<td>65997-16-2</td>
<td>50 - 70</td>
<td></td>
</tr>
<tr>
<td>Quartz (SiO2)</td>
<td>14808-60-7</td>
<td>2.5 - 10</td>
<td></td>
</tr>
<tr>
<td>Other components below reportable levels</td>
<td></td>
<td>30 - 50</td>
<td></td>
</tr>
</tbody>
</table>
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
4.1 Description of 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.

4.2 Most important symptoms/effects, acute and delayed
4.3 Indication of immediate medical considerations and important specific treatment that should be performed
Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General advice
IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures
5.1 Prohibited extinguishing media and suitable extinguishing media
**Suitable extinguishing media**
Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media**
Not available.

5.2 Specific hazards arising from chemicals
Not available.

5.3 Special protective equipment and precautions for fire-fighters
Not available.

6. Accidental release measures
6.1 Personal precautions, protective equipment and emergency procedures
Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

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

6.3 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.

7. Handling and storage
7.1 Precautions for safe handling, use and storage
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. Do not breathe dust. Avoid prolonged exposure. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

7.2 Conditions for safe storage, including any incompatibilities
Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection
8.1 Control parameters

<table>
<thead>
<tr>
<th>Occupational exposure limits</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Thailand. OELs. Notification of the Ministry of Interior, Re: Working Safety in Respect to Environmental Condition (Chemical) Components</strong></td>
<td>TWA</td>
<td>0.025 mg/m3</td>
<td>Respirable dust.</td>
</tr>
<tr>
<td>Quartz (SiO2) (CAS 14808-60-7)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>US. ACGIH Threshold Limit Values Components</strong></td>
<td>TWA</td>
<td>0.025 mg/m3</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td>Quartz (SiO2) (CAS 14808-60-7)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biological limit values</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No biological exposure limits noted for the ingredient(s).</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled. Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

8.2 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.

8.3 Personal protective measures

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

Skin protection
Wear appropriate chemical resistant gloves.

Hand protection
Use of an impervious apron is recommended.

Other

Respiratory protection
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 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

9.1 Appearance

Physical state
Solid.

Form
Solid.

Color
Not available.

9.2 Odor
Not available.

9.3 Odor threshold limit
Not available.

9.4 pH
Not available.

9.5 Melting point/freezing point
Not available.

9.6 Initial boiling point and boiling range
Not available.

9.7 Flash point
Not available.

9.8 Evaporation rate
Not available.

9.9 Flammability (solid, gas)
Not available.

9.10 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.

9.11 Vapor pressure
Not available.

9.12 Vapor density
Not available.

9.13 Relative density
Not available.

9.14 Solubility(ies)

Solubility (water)
Not available.

9.15 Partition coefficient: n-octanol/water
Not available.

9.16 Auto-ignition temperature
Not available.

9.17 Decomposition temperature
Not available.

9.18 Viscosity
Not available.

Other information

Explosive properties
Not explosive.
10. Stability and reactivity

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

10.2 Chemical stability
Material is stable under normal conditions.

10.3 Possibility of hazardous reactions
No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid
Contact with incompatible materials.

10.5 Incompatible materials
Incompatibility is based strictly upon potential theoretical reactions between chemicals and may not be specific to industrial application exposure.

10.6 Hazardous decomposition products
No hazardous decomposition products are known.

11. Toxicological information

11.1 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.

11.2 Symptoms related to physical, chemical and toxicological characteristics
Direct contact with eyes may cause temporary irritation.

11.3 Delayed and immediate effects, including chronic effects from short- and long-term exposure
Occupational exposure to the substance or mixture may cause adverse effects.

11.4 Numerical values of toxicity

- **Acute toxicity**
  Not known.

- **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.

**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.

**ACGIH Carcinogens**
Quartz (SiO2) (CAS 14808-60-7) A2 Suspected human carcinogen.

**IARC. Monographs on the evaluation of carcinogenic risks to humans**
Quartz (SiO2) (CAS 14808-60-7) 1 Carcinogenic to humans.

**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) 0

### Reproductivity
- Quartz (SiO2) 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

#### 12.1 Ecological toxicity
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.

#### 12.2 Persistence and degradability
No data is available on the degradability of any ingredients in the mixture.

#### 12.3 Bioaccumulative potential
No data available.

#### 12.4 Mobility in soil
No data available.

#### 12.5 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.

#### Local disposal regulations
Not available.

#### Waste from residues / unused products
Not available.

#### Contaminated packaging
Not available.

### 14. Transport information

#### ADR
Not regulated as dangerous goods.

#### IATA
Not regulated as dangerous goods.

#### IMDG
Not regulated as dangerous goods.

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

### 15. Regulatory information

#### Federal regulations
  - Not listed.
- Thailand. Explosive Substances & Precursors (Ministry of Defense Notification Re: Arms Subject to Imports License)
  - Not regulated.
- Thailand. Reportable Hazardous Substances (Notification of Ministry of Industry Re: Bases respecting report of quantity of hazardous materials under Department of Industrial Works, B.E. 2547)
  - Not regulated.

#### International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
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<td>Country(s) or region</td>
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<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
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<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
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</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>No</td>
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<tr>
<td>Taiwan</td>
<td>Taiwan Chemical Substance Inventory (TCSI)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>No</td>
</tr>
</tbody>
</table>

*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

Issue date: 07-15-2019
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.