Section 1 Identification of the substance/mixture and of the company/undertaking

Product identifier:
Identification on the label/Trade name: Kingsford Charcoal Briquets
Additional identification: Not available
Identification of the product: See section 3
Index Number: Not available
REACH registration No.: Not available

Relevant identified uses of the substance and uses advised against:
    Identified uses:
        Charcoal.
    Uses advised against:
        Not available.

Details of the supplier of the safety data sheet:
Supplier(Manufacturer): The Clorox Company
Address: 1221 Broadway Oakland, CA 94612 USA
Contact person(E-mail): -
Telephone: 1-510-271-7000
Fax: -

Emergency telephone Number:
    For Medical Emergencies call: 1-800-446-1014
    Transportation Emergencies, call Chemtrec: 1-800-424-9300
Available outside office hours? YES [ ] NO [X]

Section 2 Hazards Identification

Classification of the substance/mixture:
    GHS Classification
        carcinogenicity Category 1A
        Reproductive toxicity Category 1B
        Specific target organ toxicity after repeated exposure Category 2

label elements:
    Hazard Pictograms:

    Signal Word(S): Danger
    Hazard Statement: May cause cancer.
        May damage fertility or the unborn child.
Precautionary statement:

- May cause damage to organs.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe dust/fume/gas/mist/vapours/spray.
- Use personal protective equipment as required.
- IF exposed or concerned: Get medical advice/attention.
- Get medical advice/attention if you feel unwell.
- Store locked up.
- Dispose of contents/container in accordance with local regulation.

Other hazards:

Not available.

### Section 3 Composition/information on ingredients

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>Chemical Name</th>
<th>Registration No.</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Charcoal</td>
<td>N/A</td>
<td>16291-96-6</td>
<td>240-383-3</td>
<td>60 - 100 %</td>
</tr>
<tr>
<td></td>
<td>Ashes, residues</td>
<td>N/A</td>
<td>68131-74-8</td>
<td>268-627-4</td>
<td>30 - 60 %</td>
</tr>
<tr>
<td></td>
<td>Coal, anthracite</td>
<td>N/A</td>
<td>8029-10-5</td>
<td>-</td>
<td>15-40 %</td>
</tr>
<tr>
<td></td>
<td>Maize starch</td>
<td>N/A</td>
<td>9005-25-8</td>
<td>232-679-6</td>
<td>7-13 %</td>
</tr>
<tr>
<td></td>
<td>Limestone</td>
<td>N/A</td>
<td>1317-65-3</td>
<td>215-279-6</td>
<td>5-10%</td>
</tr>
<tr>
<td></td>
<td>Sodium nitrate</td>
<td>N/A</td>
<td>7631-99-4</td>
<td>231-554-3</td>
<td>1-5 %</td>
</tr>
<tr>
<td></td>
<td>Boric acid, sodium salt pentahydrate</td>
<td>N/A</td>
<td>11130-12-4</td>
<td>-</td>
<td>0.1-1 %</td>
</tr>
</tbody>
</table>

### Section 4 First aid measures

**Description of first aid measures:**

- In all cases of doubt, or when symptoms persist, seek medical attention.
- In case of inhalation:
  - Move to fresh air. If symptoms persist, call a physician.
- In case of skin contact:
  - Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
- In case of eyes contact:
  - Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- In case of ingestion:
  - Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.

**Most important symptoms and effects, both acute and delayed:**
May cause cancer. May damage fertility or the unborn child. May cause damage to organs.

**Indication of any immediate medical attention and special treatment needed:**

Treat symptomatically.

### Section 5 Fire-Fighting measures

**Extinguishing media:**

- **Suitable extinguishing media:**
  Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

- **Unsuitable extinguishing media:**
  Use of water spray when fighting fire may be inefficient.

**Special hazards arising from the substance or mixture**

Avoid dust formation. Fine dust dispersed in air may ignite. In case of fire, carbon oxides can be released.

**Special fire fighting methods and special protective actions for fire-fighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### Section 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures:**

- **For non-emergency personnel:**
  Avoid contact with eyes. Ensure adequate ventilation. Use personal protective equipment. Evacuate personnel to safe areas. Avoid dust formation. Do not breathe dust.

- **For emergency responders:**
  Wear an appropriate NIOSH/MSHA approved respirator if dust is generated.

**Environmental Precautions:**

Do not allow material to contaminate ground water system. Prevent product from entering drains.

**Methods for Containment and Cleaning up:**

Prevent further leakage or spillage if safe to do so. Collect and transfer to properly labeled containers.

**Reference to other sections:**

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

**Additional information:**

Not applicable.

### Section 7 Handling and storage

**Precautions for safe handling:**

- **Protective measures:**
  Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothing.

- **Advice on general occupational hygiene:**
  Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

**Conditions for safe storage, including any incompatibilities:**

Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

**Specific end use(s):**

Not applicable.

### Section 8 Exposure Controls/Personal Protection

**Control parameters:**

**OCCUPATIONAL EXPOSURE LIMITS (OEL)**

**INGREDIENT DATA:**
<table>
<thead>
<tr>
<th>Source</th>
<th>Ingredient</th>
<th>Material Name</th>
<th>TWA</th>
<th>STEL</th>
<th>Peak</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>US ACGIH Threshold Limit Values (TLV)</td>
<td>starch</td>
<td>Starch</td>
<td>10 mg/m³</td>
<td>Not Available</td>
<td>Not Available</td>
<td>TLV® Basis: Dermatitis</td>
</tr>
</tbody>
</table>

**EMERGENCY LIMITS:**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>TEEL-0</th>
<th>TEEL-1</th>
<th>TEEL-2</th>
<th>TEEL-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Singapore</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Original IDLH</th>
<th>Revised IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charcoal</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Ashes, residues</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Coal, anthracite</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Maize starch</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Limestone</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Sodium nitrate</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Boric acid, sodium salt pentahydrate</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

**Exposure controls:**

- **Appropriate engineering controls:**
  Exhaust ventilation should be designed to prevent accumulation and recirculation in the workplace and safely remove carbon black from the air.

- **Individual protection measures, such as personal protective equipment:**
  - **Eye/face protection:** No special protective equipment required.
  - **Hand protection:** Wear protective gloves.
  - **Body protection:** Wear protective gloves/clothing.
  - **Respiratory protection:** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
  - **Thermal hazards:** Wear suitable protective clothing to prevent heat.

- **Environmental exposure controls:**
  According to local regulations, Federal and official regulations.

**Section 9 Physical and chemical properties**

**Information on basic physical and chemical properties:**

- **Appearance:** Solid
- **Colour:** Black
- **Odour:** Not available
- **Odour threshold:** Not available
- **pH:** Not available
- **Melting point/range (°C):** Not available
- **Boiling point/range (°C):** Not available
- **Flash point (°C):** Not available
- **Evaporation rate:** Not available
- **flammability limit - lower (%):** Not available
- **flammability (solid, gas):** Not available
- **Ignition temperature (°C):** Not available
- **Upper/lower flammability/explosive limits:** Not available
- **Vapour pressure (20°C):** Not available
Section 10 Stability and reactivity

Reactivity: The substance is stable under normal storage and handling conditions.
Chemical stability: Stable at room temperature in closed containers under normal storage and handling conditions.
Possibility of hazardous reactions: No dangerous reactions known.
Conditions to avoid: Excessive heat. Heating in air. Dust formation.
Incompatible materials: Not available.
Hazardous decomposition products: Carbon oxides.

Section 11 Toxicological information

Toxicokinetics, metabolism and distribution:
Non-human toxicological data: Not available

Information on toxicological effects:
Acute toxicity:
Ashes, residues (CAS# 68131-74-8)
LD50(Oral, Rat): > 2000 mg/kg
LD50(Dermal, Rabbit): Not available
LC50(Inhalation, Rat): Not available
Sodium nitrate (CAS# 7631-99-4)
LD50(Oral, Rat): > 2000 mg/kg
LD50(Dermal, Rabbit): Not available
LC50(Inhalation, Rat): Not available
Boric acid, sodium salt pentahydrate (CAS# 11130-12-4)
LD50(Oral, Rat): 2403 mg/kg
LD50(Dermal, Rabbit): Not available
LC50(Inhalation, Rat): Not available
Skin corrosion/Irritation: Not classified
Serious eye damage/irritation: Not classified
Respiratory or skin sensitization: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: May cause cancer.
Reproductive toxicity: May damage fertility or the unborn child.
STOT- single exposure: Not classified
STOT-repeated exposure: May cause damage to organs.

### Section 12 Ecological information

**Toxicity:**

<table>
<thead>
<tr>
<th>Acute toxicity</th>
<th>Time</th>
<th>Species</th>
<th>Method</th>
<th>Evaluation</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50</td>
<td>N/A</td>
<td>96h</td>
<td>Fish</td>
<td>OECD 203</td>
<td>N/A</td>
</tr>
<tr>
<td>EC50</td>
<td>N/A</td>
<td>48h</td>
<td>Daphnia</td>
<td>OECD 202</td>
<td>N/A</td>
</tr>
<tr>
<td>EC50</td>
<td>N/A</td>
<td>72h</td>
<td>Algae</td>
<td>OECD 201</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Persistence and degradability: Not available.
Bioaccumulative potential: Not available.
Mobility in soil: Not available.
Results of PBT&vPvB assessment: Not available.
Other adverse effects: Very toxic to aquatic life with long lasting effects.

### Section 13 Disposal considerations

**Waste treatment methods:** The material should be disposed of by incineration in a chemical incinerator in compliance with national and regional requirements.

**Product / Packaging disposal:** If empty container retains product residues, all label precautions must be observed. Return for reuse or dispose according to national or local regulations.

### Section 14 Transport information

<table>
<thead>
<tr>
<th>Land transport (ADR/RID)</th>
<th>Sea transport (IMDG)</th>
<th>Air transport (ICAO/IATA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN-Number</td>
<td>Not regulate</td>
<td>Not regulate</td>
</tr>
<tr>
<td>UN Proper shipping name</td>
<td>Not regulate</td>
<td>Not regulate</td>
</tr>
<tr>
<td>Transport hazard Class</td>
<td>Not regulate</td>
<td>Not regulate</td>
</tr>
<tr>
<td>Packaging group</td>
<td>Not regulate</td>
<td>Not regulate</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>Not regulate</td>
<td>Not regulate</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>See section 2.2</td>
<td>See section 2.2</td>
</tr>
<tr>
<td>Transport in bulk according to Annex II of MARPOL 73/78 and</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
</tbody>
</table>
# Section 15 Regulation information

## Safety, health and environmental regulations/legislation specific for the substance or mixture:

<table>
<thead>
<tr>
<th>Product</th>
<th>Regulations/legislation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charcoal</td>
<td>&quot;Singapore Permissible Exposure Limits of Toxic Substances&quot;,&quot;International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs&quot;,&quot;International Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited List Passenger and Cargo Aircraft&quot;.</td>
</tr>
<tr>
<td>Ashes, residues</td>
<td>&quot;International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs&quot;.</td>
</tr>
<tr>
<td>Coal, anthracite</td>
<td>&quot;Singapore Permissible Exposure Limits of Toxic Substances&quot;,&quot;International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs&quot;.</td>
</tr>
<tr>
<td>Maize starch</td>
<td>&quot;Singapore Permissible Exposure Limits of Toxic Substances&quot;.</td>
</tr>
<tr>
<td>Limestone</td>
<td>&quot;Singapore Permissible Exposure Limits of Toxic Substances&quot;.</td>
</tr>
<tr>
<td>Sodium nitrate</td>
<td>Not available.</td>
</tr>
<tr>
<td>Boric acid, sodium salt pentahydrate</td>
<td>&quot;Singapore Permissible Exposure Limits of Toxic Substances&quot;.</td>
</tr>
</tbody>
</table>

# Section 16 Other information

**Further information:**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

**Notice to reader:**

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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