1 Identification

Product identifier

Trade name: Electrocarb Black Silicon Carbide Grain
Product code: No other identifiers
CAS Number: 409-21-2

Recommended use and restriction on use
Recommended use: Abrasives.
Restrictions on use: See Sections 8 and 10 for further information.

Details of the supplier of the Safety Data Sheet
Manufacturer/Supplier:
Electro Abrasives LLC
701 Willet Road
Buffalo, NY 14218
Phone: (716) 822-2500

Emergency telephone number:
ChemTel Inc.
(800) 255-3924 (North America)
+1 (813) 248-0585 (International)

2 Hazard(s) identification

Classification of the substance or mixture
Carc. 1A H350 May cause cancer.

Label elements
GHS label elements
The substance is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms:

GHS08

Signal word: Danger
Hazard statements:
H350 May cause cancer.

Precautionary statements:
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

(Cont'd. on page 2)
Trade name: Electrocarb Black Silicon Carbide Grain

Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

Chemical characterization: Substances
CAS No. Description
409-21-2 silicon carbide
Impurities and stabilising additives:
Present at < 1%: Quartz (SiO2).

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Description</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>14808-60-7</td>
<td>Quartz (SiO2)</td>
<td>Carc. 1A, H350</td>
</tr>
</tbody>
</table>

4 First-aid measures

Description of first aid measures
After inhalation:
Supply fresh air; consult doctor in case of complaints.
Provide oxygen treatment if affected person has difficulty breathing.

After skin contact:
Brush off loose particles from skin.
Clean with water and soap.
If skin irritation is experienced, consult a doctor.

After eye contact:
Remove contact lenses if worn.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; immediately call for medical help.

Most important symptoms and effects, both acute and delayed:
Coughing
Gastric or intestinal disorders

Danger: May cause cancer by inhalation.

Indication of any immediate medical attention and special treatment needed:
No relevant information available.

5 Fire-fighting measures

Extinguishing media
Suitable extinguishing agents:
The product is not flammable.
Use fire fighting measures that suit the environment.

For safety reasons unsuitable extinguishing agents: None.

Special hazards arising from the substance or mixture: No relevant information available.

Advice for firefighters
Protective equipment:
Wear self-contained respiratory protective device.
6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation.
Avoid formation of dust.
Avoid breathing dust.
For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

**Environmental precautions** No special measures required.

**Methods and material for containment and cleaning up**
Pick up mechanically.
Send for recovery or disposal in suitable receptacles.

**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 disposal information.

7 Handling and storage

**Handling**

**Precautions for safe handling:**
Prevent formation of dust.
Any deposit of dust which cannot be avoided must be regularly removed.
Use only in well ventilated areas.
Avoid breathing dust.

**Information about protection against explosions and fires:** No special measures required.

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

**Storage**

**Requirements to be met by storerooms and receptacles:** No special requirements.

**Information about storage in one common storage facility:** Store away from foodstuffs.

**Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
Protect from humidity and water.
This product is hygroscopic.

**Specific end use(s)** No relevant information available.
### 8 Exposure controls/personal protection

#### Control parameters

<table>
<thead>
<tr>
<th>Components with limit values that require monitoring at the workplace:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>409-21-2 silicon carbide</strong></td>
</tr>
<tr>
<td>PEL (USA)</td>
</tr>
<tr>
<td>REL (USA)</td>
</tr>
<tr>
<td>TLV (USA)</td>
</tr>
<tr>
<td>EL (Canada)</td>
</tr>
<tr>
<td>EV (Canada)</td>
</tr>
<tr>
<td>LMPE (Mexico)</td>
</tr>
<tr>
<td><strong>14808-60-7 Quartz (SiO2)</strong></td>
</tr>
<tr>
<td>PEL (USA)</td>
</tr>
<tr>
<td>REL (USA)</td>
</tr>
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</tr>
<tr>
<td>EL (Canada)</td>
</tr>
<tr>
<td>EV (Canada)</td>
</tr>
<tr>
<td>LMPE (Mexico)</td>
</tr>
</tbody>
</table>

#### Exposure controls

##### Personal protective equipment:

**General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid close or long term contact with the skin.

**Engineering controls:** Use only outdoors or in a well-ventilated area.

**Breathing equipment:**
Not required under normal conditions of use.
Use respiratory protection when grinding or cutting material.
Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded.

**Protection of hands:**
Wear gloves for the protection against mechanical hazards according to OSHA and NIOSH rules.
### 9 Physical and chemical properties

#### Information on basic physical and chemical properties

**Appearance:**
- **Form:** Granulate
- **Color:** Black
- **Odor:** Odorless
- **Odor threshold:** Not determined.

**pH-value:** Neutral

**Melting point/Melting range:** Not determined.

**Boiling point/Boiling range:** Not determined.

**Flash point:** Not applicable.

**Flammability (solid, gaseous):** Product is not flammable.

**Auto-ignition temperature:** Not determined.

**Decomposition temperature:** 2600°C (4,712 °F) (Sublimation)

**Danger of explosion:** Product does not present an explosion hazard.

**Explosion limits**
- **Lower:** Not determined.
- **Upper:** Not determined.

**Oxidizing properties:** Not determined.

**Vapor pressure:** Not applicable.

**Density:**
- **Relative density at 20°C (68 °F):** 3.20g/cm³ (26.7 lbs/gal)
- **Vapor density:** Not applicable.
- **Evaporation rate:** Not applicable.

**Solubility in / Miscibility with Water:** Insoluble.

**Partition coefficient (n-octanol/water):** Not determined.
Trade name: Electrocarb Black Silicon Carbide Grain

(Cont'd. of page 5)

Viscosity
Dynamic: Not applicable.
Kinematic: Not applicable.
Other information No relevant information available.

10 Stability and reactivity

Reactivity: No relevant information available.
Chemical stability:
Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
Possibility of hazardous reactions No dangerous reactions known.
Conditions to avoid Prevent formation of dust.
Incompatible materials No relevant information available.
Hazardous decomposition products No dangerous decomposition products known.

11 Toxicological information

Information on toxicological effects
Acute toxicity:
LD/LC50 values that are relevant for classification: None.
Primary irritant effect:
On the skin: Based on available data, the classification criteria are not met.
On the eye: Based on available data, the classification criteria are not met.
Sensitization: Based on available data, the classification criteria are not met.

IARC (International Agency for Research on Cancer):
14808-60-7 Quartz (SiO2) 1

NTP (National Toxicology Program):
14808-60-7 Quartz (SiO2) K

OSHA-Ca (Occupational Safety & Health Administration):
Substance is not listed.

Probable route(s) of exposure:
Ingestion.
Inhalation.
Eye contact.
Skin contact.
Acute effects (acute toxicity, irritation and corrosivity): No relevant information available.
Repeated dose toxicity:
Long term inhalation of product dust may be harmful.
Danger of very serious irreversible effects.
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: May cause cancer.
Reproductive toxicity: Based on available data, the classification criteria are not met.

(Cont'd. on page 7)


12 Ecological information

Toxicity
Aquatic toxicity Generally not hazardous for water
Persistence and degradability No relevant information available.
Bioaccumulative potential: Does not accumulate in organisms
Mobility in soil: No relevant information available.
Additional ecological information
General notes:
Negative ecological effects are, according to the current state of knowledge, not expected.
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.
Other adverse effects No relevant information available.

13 Disposal considerations

Waste treatment methods
Recommendation:
Smaller quantities can be disposed of with household waste.
Can be reused after reprocessing.
Contact waste processors for recycling information.
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

Uncleaned packagings
Recommendation: Disposal must be made according to official regulations.

14 Transport information

<table>
<thead>
<tr>
<th>UN-Number</th>
<th>DOT, ADR, IMDG, IATA</th>
<th>Not regulated.</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td>DOT, ADR, IMDG, IATA</td>
<td>Not regulated.</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>DOT, ADR, IMDG, IATA</td>
<td>Class</td>
</tr>
</tbody>
</table>
Trade name: Electrocarb Black Silicon Carbide Grain

<table>
<thead>
<tr>
<th>Packing group</th>
<th>DOT, ADR, IMDG, IATA</th>
<th>Not regulated.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental hazards</td>
<td>Marine pollutant</td>
<td>No</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture
United States (USA)
SARA

<table>
<thead>
<tr>
<th>Section 302 (extremely hazardous substances):</th>
<th>Substance is not listed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section 355 (extremely hazardous substances):</td>
<td>Substance is not listed.</td>
</tr>
<tr>
<td>Section 313 (Specific toxic chemical listings):</td>
<td>Substance is not listed.</td>
</tr>
<tr>
<td>TSCA (Toxic Substances Control Act)</td>
<td>Substance is listed.</td>
</tr>
<tr>
<td>Proposition 65 (California)</td>
<td></td>
</tr>
<tr>
<td>Chemicals known to cause cancer:</td>
<td>14808-60-7 Quartz (SiO2)</td>
</tr>
<tr>
<td>Chemicals known to cause reproductive toxicity for females:</td>
<td>Substance is not listed.</td>
</tr>
<tr>
<td>Chemicals known to cause reproductive toxicity for males:</td>
<td>Substance is not listed.</td>
</tr>
<tr>
<td>Chemicals known to cause developmental toxicity:</td>
<td>Substance is not listed.</td>
</tr>
<tr>
<td>Carcinogenic categories</td>
<td></td>
</tr>
<tr>
<td>EPA (Environmental Protection Agency):</td>
<td>Substance is not listed.</td>
</tr>
<tr>
<td>IARC (International Agency for Research on Cancer):</td>
<td>14808-60-7 Quartz (SiO2)</td>
</tr>
<tr>
<td>NIOSH-Ca (National Institute for Occupational Safety and Health):</td>
<td>14808-60-7 Quartz (SiO2)</td>
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</tbody>
</table>
Safety Data Sheet
acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 regulations

Printing date: August 28, 2017
Revision: August 28, 2017

Trade name: Electrocarb Black Silicon Carbide Grain

(Cont’d. of page 8)

Canadian Domestic Substances List (DSL):
Substance is listed.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Date of preparation / last revision: August 28, 2017 / -

Abbreviations and acronyms:
LDLo: Lowest Lethal Dose Observed
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bio-accumulable, Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Carc. 1A: Carcinogenicity – Category 1A

Sources
Website, European Chemicals Agency (echa.europa.eu)
Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)
Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
Safety Data Sheets, Individual Manufacturers

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Website: www.chemtelinc.com