SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
Trade name: Electrocarb Black Silicon Carbide Grain
CAS number: 409-21-2

1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.

Application of the substance / the mixture: Industrial uses.

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

1.4 Emergency telephone number:
ChemTel Inc.
+1 (800)255-3924, +1 (813)248-0585

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008
The product is not classified as hazardous according to OSHA GHS regulations within the United States.
The substance is not classified as hazardous according to the CLP regulation.

2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008
The product is not classified as hazardous according to OSHA GHS regulations within the United States.
This product does not have a classification according to the CLP regulation.

Hazard pictograms Not Regulated
Signal word Not Regulated

Hazard-determining components of labelling: Not applicable.
Hazard statements Not Regulated
Precautionary statements Not Regulated.

Additional information:
Safety data sheet available on request.

NFPA ratings (scale 0 - 4)

- Health = 0
- Fire = 0
- Reactivity = 0

(Cont'd. on page 2)
Safety Data Sheet
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA
GHS

Printing date: 11.04.2016
Revision: 11.04.2016

Trade name: Electrocarb Black Silicon Carbide Grain

(Cont’d. from page 1)

HMIS-ratings (scale 0 - 4)

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>Fire</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health = *0</td>
<td>Fire = 0</td>
<td>Reactivity = 0</td>
</tr>
</tbody>
</table>

* - Indicates a long term health hazard from repeated or prolonged exposures.

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

Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Substances
CAS No. Description
409-21-2 silicon carbide

SECTION 4: First aid measures

4.1 Description of first aid measures
General information: No special measures required.
After inhalation: Supply fresh air; consult doctor in case of complaints.
After skin contact:
Brush off loose particles from skin.
Clean with water and soap.
If skin irritation continues, consult a doctor.

After eye contact:
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; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed
Gastric or intestinal disorders.
Hazards: No further relevant information available.

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

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

(Cont’d. on page 3)
Trade name: Electrocarb Black Silicon Carbide Grain

For safety reasons unsuitable extinguishing agents: None.

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

5.3 Advice for firefighters
Protective equipment:
Wear self-contained respiratory protective device.
Wear fully protective suit.
Additional information: No further relevant information available.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation

6.2 Environmental precautions No special measures required.

6.3 Methods and material for containment and cleaning up
Pick up mechanically.
Send for recovery or disposal in suitable receptacles.
Dispose contaminated material as waste according to section 13.

6.4 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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling No special measures required.
Information about fire - and explosion protection: No special measures required.

7.2 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: No special requirements.
Further information about storage conditions: No further relevant information available.

7.3 Specific end use(s) No further relevant information available.
### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

<table>
<thead>
<tr>
<th>Ingredients 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) Long-term value: 15* 5** mg/m³</td>
</tr>
<tr>
<td>fibrous dust: *total dust **respirable fraction</td>
</tr>
<tr>
<td>REL (USA) Long-term value: 10* 5** mg/m³</td>
</tr>
<tr>
<td>*total dust **respirable fraction</td>
</tr>
<tr>
<td>TLV (USA) Long-term value: 10* 3** mg/m³</td>
</tr>
<tr>
<td>fibrous dust: 0.1 f/cc; nonfibrous:*inh.,**resp.</td>
</tr>
<tr>
<td>EL (Canada) Long-term value: 10* 3** mg/m³</td>
</tr>
<tr>
<td>*inhalable;**respirable</td>
</tr>
<tr>
<td>EV (Canada) Long-term value: 10* 3** mg/m³, 0.1f/cc*** ppm</td>
</tr>
<tr>
<td>nonfibrous: *inh.,**resp.; ***fibrous, resp.</td>
</tr>
</tbody>
</table>

**DNELs**: No further relevant information available.

**PNECs**: No further relevant information available.

#### 8.2 Exposure controls

**Personal protective equipment:**

**General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Avoid contact with the eyes.
Avoid close or long term contact with the skin.

**Respiratory protection:**
Not required under normal conditions of use.
Use suitable respiratory protective device in case of insufficient ventilation.

**Protection of hands:**
Wear gloves for the protection against mechanical hazards according to NIOSH or EN 388.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

**Eye protection:**

![Safety glasses](image)

**Body protection:**
Not required under normal conditions of use.
Protection may be required for spills.

**Limitation and supervision of exposure into the environment:** No special requirements.

**Risk management measures:** No special requirements.
SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
Appearance
  Form: Granulate
  Colour: Black
  Odour: Odourless
  Odour 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/Self-ignition temperature: Not determined.

Decomposition temperature: 4712 °F / 2600 °C (8514 °F / 4712 °F) (Sublimation)

Self-igniting: Not determined.

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

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

Vapour pressure: Not applicable.

Density at 20 °C (68 °F): 3.20 g/cm³ (26.704 lbs/gal)
Relative density: Not determined.
Vapour density: Not applicable.
Evaporation rate: Not applicable.

Solubility in / Miscibility with water: Insoluble.

Partition coefficient (n-octanol/water): Not determined.

Viscosity
  Dynamic: Not applicable.
  Kinematic: Not applicable.

9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.
10.2 Chemical stability
Thermal decomposition / conditions to be avoided:
Avoid extreme heat.
To avoid thermal decomposition do not overheat.
10.3 Possibility of hazardous reactions No dangerous reactions known.
10.4 Conditions to avoid Excessive heat and contact with oxidizers.
10.5 Incompatible materials No further relevant information available.
10.6 Hazardous decomposition products Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Acute toxicity: Based on available data, the classification criteria are not met.
LD/LC50 values relevant for classification: None.
Primary irritant effect
Skin corrosion/irritation: Based on available data, the classification criteria are not met.
Serious eye damage/irritation: Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

Carcinogenic categories
IARC (International Agency for Research on Cancer):
Substance is not listed.

NTP (National Toxicology Program):
Substance is not listed.

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

Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Based on available data, the classification criteria are not met.
STOT-single exposure: Based on available data, the classification criteria are not met.
STOT-repeated exposure: Based on available data, the classification criteria are not met.
Aspiration hazard: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity: Generally not hazardous for water
12.2 Persistence and degradability No further relevant information available.
12.3 Bioaccumulative potential Does not accumulate in organisms.
12.4 Mobility in soil No further relevant information available.
**Safety Data Sheet**

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

**Printing date: 11.04.2016**

**Trade name:** Electrocarb Black Silicon Carbide Grain

(Cont’d. from page 6)

**Additional ecological information:**

**General notes:**
Negative ecological effects are, according to the current state of knowledge, not expected.

**12.5 Results of PBT and vPvB assessment**

PBT: Not applicable.
vPvB: Not applicable.

**12.6 Other adverse effects** No further relevant information available.

**SECTION 13: Disposal considerations**

13.1 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. Residual materials should be treated as hazardous.

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

(Cont’d. on page 8)

**SECTION 14: Transport information**

14.1 UN-Number

DOT, ADR, IMDG, IATA
Not Regulated

14.2 UN proper shipping name

DOT, ADR, IMDG, IATA
Not Regulated

14.3 Transport hazard class(es)

DOT, ADR, IMDG, IATA
Class
Not Regulated

14.4 Packing group

DOT, ADR, IMDG, IATA
Not Regulated

14.5 Environmental hazards:

Marine pollutant:
No

14.6 Special precautions for user

Not applicable.

(Cont’d. on page 8)
SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
United States (USA)
SARA
Section 355 (extremely hazardous substances):
Substance is not listed.
Section 313 (Specific toxic chemical listings):
Substance is not listed.

TSCA (Toxic Substances Control Act):
Substance is listed.

Proposition 65 (California):
Chemicals known to cause cancer:
Substance is not listed.
Chemicals known to cause reproductive toxicity for females:
Substance is not listed.
Chemicals known to cause reproductive toxicity for males:
Substance is not listed.
Chemicals known to cause developmental toxicity:
Substance is not listed.

Carcinogenic Categories

EPA (Environmental Protection Agency)
Substance is not listed.

IARC (International Agency for Research on Cancer)
Substance is not listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)
Substance is not listed.

Canada

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

Abbreviations and acronyms:
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- SVHC: Substances of Very High Concern
- vPvB: very Persistent and very Bioaccumulative
- NIOSH: National Institute for Occupational Safety
- OSHA: Occupational Safety & Health

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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