



# Pitch Plug Pin UHP-GE; Graphite Electrode with Connecting Pin

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision Date: 07/26/2013

Supersedes: 05/01/2005

Version: 1.0

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

### Product Identifier

**Product Name:** Pitch Plug Pin UHP-GE; Graphite Electrode with Connecting Pin

### Intended Use of the Product

For steel recycling, used in the melting of scrap steel in EAFs (electric arc furnaces)

### Name, Address, and Telephone of the Responsible Party

#### **Company**

Showa Denko Carbon, Inc.

478 Ridge Road

PO Box 2947201

Ridgeville, SC 29472

843-875-3200

[sdkc.com](http://sdkc.com)

### Emergency Telephone Number

**Emergency number** : 843-875-3200

## SECTION 2: HAZARDS IDENTIFICATION

### Classification of the Substance or Mixture

**Classification (GHS-US)**

Not classified

### Label Elements

#### **GHS-US Labeling**

No labelling applicable

**Other Hazards** Not applicable

**Unknown Acute Toxicity (GHS-US)** Not available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Mixture

| Name                              | Product identifier  | % (w/w)  | Classification (GHS-US)                                                  |
|-----------------------------------|---------------------|----------|--------------------------------------------------------------------------|
| Graphite                          | (CAS No) 7782-42-5  | 99 - 100 | Not classified                                                           |
| Pitch, coal tar, high-temperature | (CAS No) 65996-93-2 | < 0.1    | Skin Sens. 1, H317<br>Muta. 1A, H340<br>Carc. 1A, H350<br>Repr. 1A, H360 |

Full text of H-phrases: see section 16

## SECTION 4: FIRST AID MEASURES

### Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Call a POISON CENTER/doctor/physician if you feel unwell.

**Skin Contact:** Remove contaminated clothing. Gently wash with plenty of soap and water. Rinse with plenty of water. Seek medical attention if ill effect or irritation develops.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persist.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

### Most Important Symptoms and Effects Both Acute and Delayed

**General:** Exposure may produce an allergic reaction.

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**Inhalation:** May cause irritation or asthma-like symptoms.

**Skin Contact:** Exposure may produce an allergic reaction.

**Eye Contact:** May cause minor eye irritation.

**Ingestion:** May be harmful if swallowed.

**Chronic Symptoms:** May cause cancer. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause heritable genetic damage.

### **Indication of Any Immediate Medical Attention and Special Treatment Needed**

If exposed or concerned, get medical advice and attention.

## **SECTION 5: FIREFIGHTING MEASURES**

### **Extinguishing Media**

**Suitable Extinguishing Media:** Dry chemical powder, alcohol foam, carbon dioxide, water spray, fog

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### **Special Hazards Arising From the Substance or Mixture**

**Fire Hazard:** Not considered flammable but will burn at high temperatures.

**Explosion Hazard:** Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

**Reactivity:** Product is stable

### **Advice for Firefighters**

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>). Hydrocarbons

### **Reference to Other Sections**

Refer to section 9 for flammability properties.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment and Emergency Procedures**

**General Measures:** Do not breathe dust or fumes. Do not get in eyes, on skin, or on clothing. Keep away from open flames, hot surfaces and sources of ignition. No smoking.

#### **For Non-Emergency Personnel**

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### **For Emergency Personnel**

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area. Stop release.

### **Environmental Precautions**

Prevent entry to sewers and public waters.

### **Methods and Material for Containment and Cleaning Up**

**For Containment:** Contain and collect as any solid. Where possible allow molten material to solidify naturally.

**Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely.

### **Reference to Other Sections**

See heading 8, Exposure Controls and Personal Protection.

## **SECTION 7: HANDLING AND STORAGE**

### **Precautions for Safe Handling**

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work

### **Conditions for Safe Storage, Including Any Incompatibilities**

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep away from heat and direct sunlight.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.

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### Specific End Use(s)

For steel recycling, used in the melting of scrap steel in EAFs (electric arc furnaces).

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

| <b>Graphite (7782-42-5)</b>                           |                                      |                                                                                                 |
|-------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------|
| Mexico                                                | OEL TWA (mg/m <sup>3</sup> )         | 2 mg/m <sup>3</sup> (natural)                                                                   |
| USA ACGIH                                             | ACGIH TWA (mg/m <sup>3</sup> )       | 2 mg/m <sup>3</sup> (all forms except graphite fibers)                                          |
| USA OSHA                                              | OSHA PEL (TWA) (mg/m <sup>3</sup> )  | 5 mg/m <sup>3</sup> (synthetic)                                                                 |
| USA NIOSH                                             | NIOSH REL (TWA) (mg/m <sup>3</sup> ) | 2.5 mg/m <sup>3</sup> (natural)                                                                 |
| USA IDLH                                              | US IDLH (mg/m <sup>3</sup> )         | 1250 mg/m <sup>3</sup>                                                                          |
| Alberta                                               | OEL TWA (mg/m <sup>3</sup> )         | 2 mg/m <sup>3</sup> (all forms except Graphite fibres)                                          |
| British Columbia                                      | OEL TWA (mg/m <sup>3</sup> )         | 2 mg/m <sup>3</sup> (all forms except Graphite fibres)                                          |
| Manitoba                                              | OEL TWA (mg/m <sup>3</sup> )         | 2 mg/m <sup>3</sup> (all forms except Graphite fibers)                                          |
| New Brunswick                                         | OEL TWA (mg/m <sup>3</sup> )         | 2 mg/m <sup>3</sup> (all forms except graphite fibres)                                          |
| Newfoundland & Labrador                               | OEL TWA (mg/m <sup>3</sup> )         | 2 mg/m <sup>3</sup> (all forms except Graphite fibers)                                          |
| Nova Scotia                                           | OEL TWA (mg/m <sup>3</sup> )         | 2 mg/m <sup>3</sup> (all forms except Graphite fibres)                                          |
| Nunavut                                               | OEL TWA (mg/m <sup>3</sup> )         | 10 mg/m <sup>3</sup> (synthetic, total mass)                                                    |
| Northwest Territories                                 | OEL TWA (mg/m <sup>3</sup> )         | 10 mg/m <sup>3</sup> (synthetic, total mass)                                                    |
| Ontario                                               | OEL TWA (mg/m <sup>3</sup> )         | 2 mg/m <sup>3</sup> (except Graphite fibres)                                                    |
| Prince Edward Island                                  | OEL TWA (mg/m <sup>3</sup> )         | 2 mg/m <sup>3</sup> (all forms except Graphite fibers)                                          |
| Québec                                                | VEMP (mg/m <sup>3</sup> )            | 2 mg/m <sup>3</sup> (containing no Asbestos and <1% Crystalline silica, except Graphite fibres) |
| Saskatchewan                                          | OEL STEL (mg/m <sup>3</sup> )        | 4 mg/m <sup>3</sup> (natural, except Graphite fibres)                                           |
| Saskatchewan                                          | OEL TWA (mg/m <sup>3</sup> )         | 2 mg/m <sup>3</sup> (natural, except Graphite fibres)                                           |
| Yukon                                                 | OEL TWA (mg/m <sup>3</sup> )         | 10 mg/m <sup>3</sup> (synthetic)                                                                |
| <b>Pitch, coal tar, high-temperature (65996-93-2)</b> |                                      |                                                                                                 |
| Mexico                                                | OEL TWA (mg/m <sup>3</sup> )         | 0.02 mg/m <sup>3</sup>                                                                          |
| Mexico                                                | OEL STEL (mg/m <sup>3</sup> )        | 0.03 mg/m <sup>3</sup>                                                                          |
| Mexico                                                | OEL STEL (ppm)                       | 0.015 ppm                                                                                       |
| USA ACGIH                                             | ACGIH TWA (mg/m <sup>3</sup> )       | 0.2 mg/m <sup>3</sup>                                                                           |
| USA OSHA                                              | OSHA PEL (TWA) (mg/m <sup>3</sup> )  | 0.2 mg/m <sup>3</sup> (benzene soluble fraction)                                                |
| USA NIOSH                                             | NIOSH REL (TWA) (mg/m <sup>3</sup> ) | 0.1 mg/m <sup>3</sup> (Cyclohexane-extractable fraction)                                        |
| USA IDLH                                              | US IDLH (mg/m <sup>3</sup> )         | 80 mg/m <sup>3</sup>                                                                            |
| Alberta                                               | OEL TWA (mg/m <sup>3</sup> )         | 0.2 mg/m <sup>3</sup>                                                                           |
| British Columbia                                      | OEL TWA (mg/m <sup>3</sup> )         | 0.2 mg/m <sup>3</sup>                                                                           |
| Manitoba                                              | OEL TWA (mg/m <sup>3</sup> )         | 0.2 mg/m <sup>3</sup>                                                                           |
| New Brunswick                                         | OEL TWA (mg/m <sup>3</sup> )         | 0.2 mg/m <sup>3</sup>                                                                           |
| Newfoundland & Labrador                               | OEL TWA (mg/m <sup>3</sup> )         | 0.2 mg/m <sup>3</sup>                                                                           |
| Nova Scotia                                           | OEL TWA (mg/m <sup>3</sup> )         | 0.2 mg/m <sup>3</sup>                                                                           |
| Nunavut                                               | OEL STEL (mg/m <sup>3</sup> )        | 0.6 mg/m <sup>3</sup>                                                                           |
| Nunavut                                               | OEL TWA (mg/m <sup>3</sup> )         | 0.2 mg/m <sup>3</sup>                                                                           |
| Northwest Territories                                 | OEL STEL (mg/m <sup>3</sup> )        | 0.6 mg/m <sup>3</sup>                                                                           |
| Northwest Territories                                 | OEL TWA (mg/m <sup>3</sup> )         | 0.2 mg/m <sup>3</sup>                                                                           |
| Ontario                                               | OEL TWA (mg/m <sup>3</sup> )         | 0.2 mg/m <sup>3</sup>                                                                           |
| Prince Edward Island                                  | OEL TWA (mg/m <sup>3</sup> )         | 0.2 mg/m <sup>3</sup>                                                                           |
| Québec                                                | VEMP (mg/m <sup>3</sup> )            | 0.2 mg/m <sup>3</sup>                                                                           |
| Saskatchewan                                          | OEL STEL (mg/m <sup>3</sup> )        | 0.6 mg/m <sup>3</sup>                                                                           |
| Saskatchewan                                          | OEL TWA (mg/m <sup>3</sup> )         | 0.2 mg/m <sup>3</sup>                                                                           |

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### Exposure Controls

**Appropriate Engineering Controls:** Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Gloves. Protective clothing.



**Materials for Protective Clothing:** Not available

**Hand Protection:** Impermeable protective gloves.

**Eye Protection:** Chemical goggles or safety glasses.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

**Thermal Hazard Protection:** If material is hot, wear thermally resistant protective gloves.

**Other Information:** When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

|                                                   |                              |
|---------------------------------------------------|------------------------------|
| Physical State                                    | : Solid                      |
| Appearance                                        | : Black                      |
| Odor                                              | : Not available              |
| Odor Threshold                                    | : Not available              |
| pH                                                | : Not available              |
| Relative Evaporation Rate (butylacetate=1)        | : Not available              |
| Melting Point                                     | : 108 - 113 °C (226 - 235°F) |
| Freezing Point                                    | : Not available              |
| Boiling Point                                     | : 240 °C 464°F               |
| Flash Point                                       | : 150 - 200 °C (302 - 392°F) |
| Auto-ignition Temperature                         | : Not available              |
| Decomposition Temperature                         | : Not available              |
| Flammability (solid, gas)                         | : Not available              |
| Lower Flammable Limit                             | : Not available              |
| Upper Flammable Limit                             | : Not available              |
| Vapor Pressure                                    | : Not available              |
| Relative Vapor Density at 20 °C                   | : Not available              |
| Relative Density                                  | : 1.2 - 1.4                  |
| Specific Gravity                                  | : 1.2 - 1.4                  |
| Solubility                                        | : Not available              |
| Log Pow                                           | : Not available              |
| Log Kow                                           | : Not available              |
| Viscosity, Kinematic                              | : Not available              |
| Viscosity, Dynamic                                | : Not available              |
| Explosion Data – Sensitivity to Mechanical Impact | : Not available              |
| Explosion Data – Sensitivity to Static Discharge  | : Not available              |

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### SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Product is stable.

**Chemical Stability:** Stable under normal conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.

**Hazardous Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>). Hydrocarbons.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects - Product

**Acute Toxicity** : Not classified

**LD50 and LC50 Data** Not available

**Skin Corrosion/Irritation:** Not classified

**Serious Eye Damage/Irritation:** Not classified

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Teratogenicity:** Not available

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified.

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified.

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** May cause irritation or asthma-like symptoms.

**Symptoms/Injuries After Skin Contact:** Exposure may produce an allergic reaction.

**Symptoms/Injuries After Eye Contact:** May cause minor eye irritation.

**Symptoms/Injuries After Ingestion:** May be harmful if swallowed.

**Chronic Symptoms:** May cause cancer. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause heritable genetic damage.

#### Information on Toxicological Effects - Ingredient(s)

**LD50 and LC50 Data** Not available

| <b>Pitch, coal tar, high-temperature (65996-93-2)</b> |                        |
|-------------------------------------------------------|------------------------|
| IARC Group                                            | 1                      |
| National Toxicity Program (NTP) Status                | Known human carcinogen |

### SECTION 12: ECOLOGICAL INFORMATION

**Toxicity** Not available

#### Persistence and Degradability

| <b>Pitch Plug Pin UHP-GE; Graphite Electrode with Connecting Pin</b> |                  |
|----------------------------------------------------------------------|------------------|
| Persistence and Degradability                                        | Not established. |

#### Bioaccumulative Potential

| <b>Pitch Plug Pin UHP-GE; Graphite Electrode with Connecting Pin</b> |                  |
|----------------------------------------------------------------------|------------------|
| Bioaccumulative Potential                                            | Not established. |

| <b>Pitch, coal tar, high-temperature (65996-93-2)</b> |        |
|-------------------------------------------------------|--------|
| BCF fish 1                                            | < 0.13 |
| Log Pow                                               | 6.04   |

**Mobility in Soil** Not available

#### Other Adverse Effects

**Other Information:** Avoid release to the environment.

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### SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

### SECTION 14: TRANSPORT INFORMATION

**In Accordance With ICAO/IATA/DOT/TDG**

**UN Number** Not regulated for transport

**UN Proper Shipping Name** Not regulated for transport

**Transport by sea** Not regulated for transport

**Air transport** Not regulated for transport

### SECTION 15: REGULATORY INFORMATION

#### US Federal Regulations

##### Graphite (7782-42-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

##### Pitch, coal tar, high-temperature (65996-93-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### US State Regulations

##### Graphite (7782-42-5)

U.S. - Hawaii - Occupational Exposure Limits - TWAs  
U.S. - Idaho - Occupational Exposure Limits - Mineral Dusts  
U.S. - Idaho - Occupational Exposure Limits - TWAs  
U.S. - Massachusetts - Right To Know List  
U.S. - Michigan - Occupational Exposure Limits - TWAs  
U.S. - Minnesota - Hazardous Substance List  
U.S. - Minnesota - Permissible Exposure Limits - TWAs  
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour  
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - New York - Occupational Exposure Limits - Mineral Dusts  
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour  
U.S. - Oregon - Permissible Exposure Limits - Mineral Dusts  
U.S. - Oregon - Permissible Exposure Limits - TWAs  
U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Tennessee - Occupational Exposure Limits - TWAs  
U.S. - Texas - Effects Screening Levels - Long Term  
U.S. - Texas - Effects Screening Levels - Short Term  
U.S. - Vermont - Permissible Exposure Limits - TWAs  
U.S. - Washington - Permissible Exposure Limits - STELs  
U.S. - Washington - Permissible Exposure Limits - TWAs  
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet  
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet  
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater  
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet

##### Pitch, coal tar, high-temperature (65996-93-2)

U.S. - Idaho - Occupational Exposure Limits - TWAs  
U.S. - Illinois - Toxic Air Contaminant Carcinogens  
U.S. - Illinois - Toxic Air Contaminants  
U.S. - Maine - Chemicals of High Concern  
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1  
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2

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U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity  
 U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1  
 U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2  
 U.S. - Massachusetts - Right To Know List  
 U.S. - Michigan - Occupational Exposure Limits - TWAs  
 U.S. - Minnesota - Chemicals of High Concern  
 U.S. - Minnesota - Chemicals of High Concern - Persistent Bioaccumulative Toxins  
 U.S. - Minnesota - Hazardous Substance List  
 U.S. - Minnesota - Permissible Exposure Limits - TWAs  
 U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour  
 U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual  
 U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - New Jersey - Special Health Hazards Substances List  
 U.S. - New York - Occupational Exposure Limits - TWAs  
 U.S. - New York - Priority Chemical Avoidance List  
 U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour  
 U.S. - Oregon - Permissible Exposure Limits - TWAs  
 U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances  
 U.S. - Pennsylvania - RTK (Right to Know) List  
 U.S. - Tennessee - Occupational Exposure Limits - TWAs  
 U.S. - Texas - Effects Screening Levels - Long Term  
 U.S. - Texas - Effects Screening Levels - Short Term  
 U.S. - Washington - Permissible Exposure Limits - STELs  
 U.S. - Washington - Permissible Exposure Limits - TWAs

### Canadian Regulations

#### Pitch Plug Pin UHP-GE; Graphite Electrode with Connecting Pin

Uncontrolled product according to WHMIS criteria

#### Graphite (7782-42-5)

Listed on the Canadian DSL (Domestic Substances List) inventory.

|                      |                                                                                    |
|----------------------|------------------------------------------------------------------------------------|
| WHMIS Classification | Class D Division 2 Subdivision A - Very toxic material causing other toxic effects |
|----------------------|------------------------------------------------------------------------------------|

#### Pitch, coal tar, high-temperature (65996-93-2)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Listed on the Canadian Ingredient Disclosure List

|                      |                                                                                    |
|----------------------|------------------------------------------------------------------------------------|
| WHMIS Classification | Class D Division 2 Subdivision A - Very toxic material causing other toxic effects |
|----------------------|------------------------------------------------------------------------------------|

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

### SECTION 16: OTHER INFORMATION

**Indication of Changes** : 07/23/2013

**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

#### GHS Full Text Phrases:

|              |                                     |
|--------------|-------------------------------------|
| Carc. 1A     | Carcinogenicity Category 1A         |
| Muta. 1A     | Germ cell mutagenicity Category 1A  |
| Repr. 1A     | Reproductive toxicity Category 1A   |
| Skin Sens. 1 | Skin sensitization Category 1       |
| H317         | May cause an allergic skin reaction |
| H335         | May cause respiratory irritation    |
| H340         | May cause genetic defects           |
| H350         | May cause cancer                    |

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|      |                                                                |
|------|----------------------------------------------------------------|
| H360 | May damage fertility or the unborn child                       |
| H372 | Causes damage to organs through prolonged or repeated exposure |

### Party Responsible for the Preparation of This Document

Showa Denko Carbon, Inc.

Phone Number: 843-875-3200

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*

North America GHS US 2012 & WHMIS