

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
 Product name : Helspot Plastic  
 CAS-No. : Mixture  
 Product code : 0897  
 Other means of identification : Graphitic Speciality

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Refractory

#### 1.3. Supplier

Resco Products, Inc.  
 One Robinson Plaza, Suite 300  
 6600 Steubenville Pike  
 Pittsburgh, PA 15205 - United States  
 412-494-4491

[SDS@RescoProducts.com](mailto:SDS@RescoProducts.com) - [WWW.RescoProducts.com](http://WWW.RescoProducts.com)

#### 1.4. Emergency telephone number

Emergency number : EMERGENCY ONLY (CHEMTREC) USA & Canada 1-800-424-9300  
 Outside USA & Canada +1 703-741-5970

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Skin corrosion/irritation Category 2 H315 Causes skin irritation  
 Serious eye damage/eye irritation Category 2B H320 Causes eye irritation  
 Carcinogenicity Category 1A H350 May cause cancer (Inhalation, After drying or heating, Dust when sawing or tear out)

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Hazard statements (GHS US) :

Precautionary statements (GHS US) :

: Danger  
 : H315 - Causes skin irritation  
 : H320 - Causes eye irritation  
 : H350 - May cause cancer (Inhalation, After drying or heating, Dust when sawing or tear out)  
 : P280 - Wear eye protection, protective gloves, protective clothing.  
 : P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 : P337+P313 - If eye irritation persists: Get medical advice/attention.  
 : P260 - Do not breathe Dust when sawing or tear out.

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name         | Product identifier   | %       | GHS-US classification |
|--------------|----------------------|---------|-----------------------|
| graphite     | (CAS-No.) 7782-42-5  | 10 - 20 | Not classified        |
| cristobalite | (CAS-No.) 14464-46-1 | 10 - 20 | Carc. 1A, H350        |
| quartz       | (CAS-No.) 14808-60-7 | 5 - 10  | Carc. 1A, H350        |

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

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).  
 First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.  
 First-aid measures after skin contact : Gently wash with plenty of soap and water.  
 First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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### 4.2. Most important symptoms and effects (acute and delayed)

- Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.
- Symptoms/effects after inhalation : May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure through inhalation.
- Symptoms/effects after skin contact : Causes skin irritation.
- Symptoms/effects after eye contact : Causes eye irritation.

### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
- Unsuitable extinguishing media : In case of fire, all extinguishing media allowed.

### 5.2. Specific hazards arising from the chemical

- Fire hazard : Not flammable. Fire conditions may produce carbon dioxide-carbon monoxide.

### 5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : No specific fire-fighting instructions required.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

No additional information available

### 6.3. Methods and material for containment and cleaning up

- For containment : Collect spillage.
- Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Avoid raising dust. Avoid contact with skin and eyes. Do not breathe dust.
- Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store this product in a dry location where it can be protected from the elements.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| graphite (7782-42-5)      |                                     |  |
|---------------------------|-------------------------------------|--|
| ACGIH                     | ACGIH TWA (mg/m <sup>3</sup> )      | 2 mg/m <sup>3</sup> (Graphite (all forms except graphite fibers); USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction) |
| cristobalite (14464-46-1) |                                     |  |
| ACGIH                     | ACGIH TWA (mg/m <sup>3</sup> )      | 0.025 mg/m <sup>3</sup> (Silica-Crystalline Cristobalite; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction)         |
| OSHA                      | OSHA PEL (TWA) (mg/m <sup>3</sup> ) | 0.05 mg/m <sup>3</sup> respirable dust   |
| quartz (14808-60-7)       |                                     |  |
| ACGIH                     | ACGIH TWA (mg/m <sup>3</sup> )      | 0.025 mg/m <sup>3</sup> (Silica-Crystalline Quartz; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction)               |
| OSHA                      | OSHA PEL (TWA) (mg/m <sup>3</sup> ) | 0.05 mg/m <sup>3</sup> Respirable fraction   |
| OSHA                      | Remark (OSHA)                       | (3) See Table Z-3.   |

### 8.2. Appropriate engineering controls

No additional information available

### 8.3. Individual protection measures/Personal protective equipment

**Personal protective equipment:**

Avoid all unnecessary exposure.

**Hand protection:**

Wear protective gloves.

**Eye protection:**

Chemical goggles or safety glasses

**Skin and body protection:**

Wear suitable protective clothing

**Respiratory protection:**

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Wear appropriate mask

### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |                              |
|---|------------------------------|
| Physical state                              | : Solid                      |
| Appearance                                  | : Plastic. Granular mixture. |
| Color                                       | : Black                      |
| Odor  | : Almost odourless           |
| Odor threshold                              | : Not applicable             |
| pH  | : No data available          |
| Melting point                               | : > 2000 °F                  |
| Freezing point                              | : Not applicable             |
| Boiling point                               | : Not applicable             |
| Critical temperature                        | : Not applicable             |
| Critical pressure                           | : Not applicable             |
| Flash point                                 | : Not applicable             |
| Relative evaporation rate (butyl acetate=1) | : Not applicable             |
| Relative evaporation rate (ether=1)         | : Not applicable             |
| Flammability (solid, gas)                   | : Non flammable.             |
| Vapor pressure                              | : Not Applicable             |
| Vapor pressure at 50 °C                     | : Not Applicable             |
| Relative vapor density at 20 °C             | : No data available          |
| Relative density                            | : ≈ 2.5                      |
| Solubility                                  | : Slightly soluble.          |
| Log Pow                                     | : No data available          |
| Auto-ignition temperature                   | : Not applicable             |
| Decomposition temperature                   | : No data available          |
| Viscosity, kinematic                        | : No data available          |
| Viscosity, dynamic                          | : Not Applicable             |
| Explosion limits                            | : Not applicable             |
| Explosive properties                        | : No data available          |
| Oxidizing properties                        | : No data available          |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

None known.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Avoid dust formation.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

#### graphite (7782-42-5)

|                                   |  |
|-----------------------------------|--|
| LD50 oral rat                     | > 2000 mg/kg (Rat; OECD 423: Acute Oral Toxicity – Acute Toxic Class Method; Experimental value) |
| Skin corrosion/irritation         | : Causes skin irritation.  |
| Serious eye damage/irritation     | : Causes eye irritation.   |
| Respiratory or skin sensitization | : Not classified   |
| Germ cell mutagenicity            | : Not classified   |
| Carcinogenicity                   | : May cause cancer (Inhalation, After drying or heating, Dust when sawing or tear out).          |

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|   |  |
|---|--|
| <b>crystalite (14464-46-1)</b>                      |  |
| IARC group  | 1 - Carcinogenic to humans   |
| <b>quartz (14808-60-7)</b>                          |  |
| IARC group  | 1 - Carcinogenic to humans   |
| Reproductive toxicity                               | : Not classified   |
| Specific target organ toxicity – single exposure    | : Not classified   |
| Specific target organ toxicity – repeated exposure  | : Not classified   |
| Aspiration hazard                                   | : Not classified   |
| Viscosity, kinematic                                | : No data available  |
| Likely routes of exposure                           | : Inhalation.  |
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met.  |
| Symptoms/effects after inhalation                   | : May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure through inhalation. |
| Symptoms/effects after skin contact                 | : Causes skin irritation.  |
| Symptoms/effects after eye contact                  | : Causes eye irritation.   |

### SECTION 12: Ecological information

#### 12.1. Toxicity

|                             |  |
|-----------------------------|--|
| <b>graphite (7782-42-5)</b> |  |
| LC50 fish 1                 | > 100 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Danio rerio; Static system; Fresh water; Experimental value)                        |
| EC50 Daphnia 1              | > 100 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)          |
| Threshold limit algae 1     | > 100 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value) |
| Threshold limit algae 2     | > 100 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value) |

#### 12.2. Persistence and degradability

|                                  |                                   |
|----------------------------------|-----------------------------------|
| <b>Helspot Plastic (Mixture)</b> |                                   |
| Persistence and degradability    | Not established.                  |
| <b>graphite (7782-42-5)</b>      |                                   |
| Persistence and degradability    | Biodegradability: not applicable. |
| Biochemical oxygen demand (BOD)  | Not applicable                    |
| Chemical oxygen demand (COD)     | Not applicable                    |
| ThOD                             | Not applicable                    |
| <b>crystalite (14464-46-1)</b>   |                                   |
| Persistence and degradability    | Biodegradability: not applicable. |
| Biochemical oxygen demand (BOD)  | Not applicable                    |
| Chemical oxygen demand (COD)     | Not applicable                    |
| ThOD                             | Not applicable                    |
| <b>quartz (14808-60-7)</b>       |                                   |
| Persistence and degradability    | Biodegradability: not applicable. |
| Biochemical oxygen demand (BOD)  | Not applicable                    |
| Chemical oxygen demand (COD)     | Not applicable                    |
| ThOD                             | Not applicable                    |

#### 12.3. Bioaccumulative potential

|                                  |                                    |
|----------------------------------|------------------------------------|
| <b>Helspot Plastic (Mixture)</b> |                                    |
| Bioaccumulative potential        | Not established.                   |
| <b>graphite (7782-42-5)</b>      |                                    |
| Bioaccumulative potential        | No bioaccumulation data available. |
| <b>crystalite (14464-46-1)</b>   |                                    |
| Bioaccumulative potential        | No test data available.            |
| <b>quartz (14808-60-7)</b>       |                                    |
| Bioaccumulative potential        | No bioaccumulation data available. |

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### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Effect on the global warming : None known  
Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Not regulated

### Transportation of Dangerous Goods

Not regulated

### Transport by sea

Not regulated

### Air transport

Not regulated

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

#### National regulations

##### quartz (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)

### 15.3. US State regulations

#### Helspot Plastic (Mixture)

|  |  |
|--|--|
| U.S. - California - Proposition 65 - Other information | This product contains crystalline silica, a chemical known to the state of California to cause cancer. |
|--|--|

#### crystalite (14464-46-1)

| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) | Maximum allowable dose level (MADL) |
|---|---|---|---|----------------------------------|-------------------------------------|
| Yes   | No  | No  | No  |                                  |                                     |

#### quartz (14808-60-7)

| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) | Maximum allowable dose level (MADL) |
|---|---|---|---|----------------------------------|-------------------------------------|
| Yes   | No  | No  | No  |                                  |                                     |

#### Component

#### State or local regulations

|                        |  |
|------------------------|--|
| graphite(7782-42-5)    | U.S. - New Jersey - Right to Know Hazardous Substance List |
| crystalite(14464-46-1) | U.S. - New Jersey - Right to Know Hazardous Substance List |
| quartz(14808-60-7)     | U.S. - New Jersey - Right to Know Hazardous Substance List |

## SECTION 16: Other information

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Revision date : 01/28/2019  
Other information : Report language name. English. In the event of any conflict between English and other language versions, the English version shall prevail.

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Full text of H-phrases:

|      |                        |
|------|------------------------|
| H315 | Causes skin irritation |
| H320 | Causes eye irritation  |
| H350 | May cause cancer       |

SDS US (GHS HazCom 2012)

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