Section 1 - Identity

Identity (As Used on Label and List): Spectrum HS-600

Manufacturers Name: General Carbon Corporation
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Date Prepared: November 16, 2015

Section 2 - Material Identification and Information
2.1 – Classification of the substance or mixture

GHS-US classification
Ox. Sol. 2 H272
STOT SE 3 H335

2.2 - Label Elements

GHS-US labelling

Hazard pictograms (GHS-US):

<table>
<thead>
<tr>
<th>Hazard pictogram</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHS03</td>
<td></td>
</tr>
<tr>
<td>GHS07</td>
<td></td>
</tr>
</tbody>
</table>

Signal word (GHS-US): Danger

Hazard statements (GHS-US):

- H272 - May intensify fire; oxidizer
- H335 - May cause respiratory irritation

Precautionary statements (GHS-US):

- P210 - Keep away from heat/sparks/open flames/hot surfaces - No smoking
- P220 - Keep/Store away from clothing/combustible materials
- P221 - Take any precaution to avoid mixing with combustibles
- P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
- P271 - Use only outdoors or in a well-ventilated area
- P280 - Wear protective gloves/protective clothing/eye protection/face protection
- P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P312 - Call a POISON CENTER/doctor/if you feel unwell
In case of fire: Use for extinction

P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/container

2.3 - Other Hazards
No additional information available

2.4 - Unknown acute toxicity (GHS US)
No data available

SECTION 3: Composition/information on ingredients

3.1 - Substances
Not applicable

3.2 - Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>%</th>
<th>GHS-US Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zeolite</td>
<td>(CAS No.) 1318-02-1</td>
<td>79.5 - 81.5</td>
<td>STOT SE 3, H335</td>
</tr>
<tr>
<td>Water</td>
<td>(CAS No.) 7732-18-5</td>
<td>12.5 - 14.5</td>
<td>Not classified</td>
</tr>
<tr>
<td>Potassium permanganate</td>
<td>(CAS No.) 7722-64-7</td>
<td>6 - 8</td>
<td>Ox. Sol. 2, H272 Acute Tox. 4 (Oral), H302</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1 - Description of first aid measures
First-aid measures after inhalation: Remove person to fresh air. If not breathing, administer CPR or artificial respiration. Get immediate medical attention.
First-aid measures after skin contact: If skin reddening or irritation develops, seek medical attention.
First-aid measures after eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.
First-aid measures after ingestion: If the material is swallowed, get immediate medical attention or advice. DO NOT induce vomiting unless directed to do so by medical personnel.

4.2 - Most important symptoms and effects, both acute and delayed
Symptoms/injuries after inhalation: May cause respiratory irritation.
Symptoms/injuries after skin contact: Causes skin irritation. May stain body tissue.
Symptoms/injuries after eye contact: Causes serious eye irritation.
Symptoms/injuries after ingestion: May be harmful if swallowed.

4.3 - Indication of any immediate medical attention and special treatment needed
No additional information available

SECTION 5: Firefighting measures

5.1 - Extinguishing media
Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire
Unsuitable extinguishing media: None
5.2 - Special hazards arising from the substance or mixture
Fire hazard : May intensify fire; oxidizer
Explosion hazard : None known

5.3 - Advice for firefighters
Protection during firefighting : Firefighters should wear full protective gear

SECTION 6: Accidental release measures
6.1 - Personal precautions, protective equipment and emergency procedures
General measures : Avoid contact with the skin and the eyes
For non-emergency personnel : No additional information available
For emergency responders : No additional information available

6.2 - Environmental precautions
None

6.3 - Methods and material for containment and cleaning up
For containment : If possible, stop flow of product
Methods for cleaning up : Shovel or sweep up and put in a closed container for disposal

6.4 - Reference to other sections
No additional information available

SECTION 7: Handling and storage
7.1 - Precautions for safe handling
Precautions for safe handling : Avoid contact with eyes

7.2 - Conditions for safe storage, including any incompatibilities
Storage conditions : Protect containers from physical damage. Store in dry, cool, well-ventilated area

7.3 - No additional information available

SECTION 8: Exposure controls/personal protection
8.1 - Control parameters
No additional information available

8.2 - Exposure controls
Appropriate engineering controls : Local exhaust and general ventilation must be adequate to meet exposure standards
Hand protection : Use impervious gloves to minimize skin contact

2014 EN (English) 3/5
Eye protection : Safety glasses
Skin and body protection : Wear suitable working clothes
Respiratory protection : If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection

SECTION 9: Physical and chemical properties
9.1 - Information on basic physical and chemical properties
Physical state: Solid
Appearance: Granules
Colour: Purple
Odour: No data available
Odour threshold: No data available
pH: No data available
Relative evaporation rate (butylacetate=1): No data available
Melting point: No data available
Freezing point: No data available
Boiling point: No data available
Flash point: No data available
Self ignition temperature: No data available
Decomposition temperature: No data available
Flammability (solid, gas): No data available
Vapour pressure: No data available
Relative vapour density at 20 °C: No data available
Relative density: 59-61 lb/ft³
Solubility: No data available
Log Pow: No data available
Log Kow: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosive properties: No data available
Oxidising properties: No data available
Explosive limits: No data available

9.1 - 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
Will not occur

10.4 - Conditions to avoid
None

10.5 - Incompatible materials
None

10.6 - Hazardous decomposition products
None

SECTION 11: Toxicological information
11.1 - Information on toxicological effects
Acute toxicity: Not classified

Zeolite (1318-02-1)

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>5000 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>2.4 mg/l (Exposure time: 1 h)</td>
</tr>
<tr>
<td>ATE (oral)</td>
<td>5000 mg/kg</td>
</tr>
</tbody>
</table>

Potassium permanganate (7722-64-7)

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>750 mg/kg</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Causes skin irritation
Serious eye damage/irritation: Causes serious eye irritation
Respiratory or skin sensitisation: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified

Zeolite (1318-02-1)

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>IARC group</td>
<td>3</td>
</tr>
</tbody>
</table>

Reproductive toxicity: Not classified
Specific target organ toxicity (single exposure): Not classified
Specific target organ toxicity (repeated exposure): Not classified
Aspiration hazard: Not classified

**SECTION 12: Ecological information**

*12.1 - Toxicity*

Zeolite (1318-02-1)

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fishes 1</td>
<td>1800 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>1000 - 1800 mg/l (Exposure time: 48 h - Species: Daphnia magna)</td>
</tr>
<tr>
<td>EC50 other aquatic organisms 1</td>
<td>18 mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus)</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>3200 - 5600 mg/l (Exposure time: 96 h - Species: Oryzias latipes [semi-static])</td>
</tr>
</tbody>
</table>

Potassium permanganate (7722-64-7)

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fishes 1</td>
<td>3.3 - 3.93 mg/l (Exposure time: 96 h - Species: Carassius auratus [static])</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>2.97 - 3.11 mg/l (Exposure time: 96 h - Species: Cyprinus carpio)</td>
</tr>
</tbody>
</table>

*12.2 - Persistence and degradability*

No additional information available
12.3 - Bioaccumulative potential
Potassium hydroxide (1310-58-3)
Log Pow 0.65

12.4 - Mobility in soil
No additional information available

12.5 - Other adverse effects
No additional information available

SECTION 13: Disposal considerations
13.1 - Waste treatment methods
Waste disposal recommendations: Dispose of contents/container in accordance with local/regional/national/international regulations

SECTION 14: Transport information
In accordance with DOT / ADR / RID / ADNR / IMDG / ICAO / IATA

14.1 - UN number
Not applicable

14.2 - UN proper shipping name
Not applicable

SECTION 15: Regulatory information
15.1 - US Federal regulations
Potassium permanganate (7722-64-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2 - US State regulations
Potassium permanganate (7722-64-7)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information
Full text of H-phrases:

<table>
<thead>
<tr>
<th>Acute Tox. 3 (Oral)</th>
<th>0.65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Irrit. 2A</td>
<td>Serious eye damage/eye irritation Category 2A</td>
</tr>
<tr>
<td>Skin Corr. 1A</td>
<td>skin corrosion/irritation Category 1A</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>skin corrosion/irritation Category 2</td>
</tr>
<tr>
<td>H301</td>
<td>Toxic if swallowed</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>----</td>
<td>-------------</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
</tbody>
</table>

NFPA health hazard: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given  
NFPA fire hazard: 1 - Must be preheated before ignition can occur  
NFPA reactivity: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water

***The information contained herein is accurate to the best of our knowledge. General Carbon Corporation makes no warranty with respect hereto said information and disclaims all liability from reliance there in.***