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

1.1 Product identifier

Trade name: CharCoat SC60

MSDS code:

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
Coating compound/ Surface coating/ paint
Fire retarding agent

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
Charcoat Passive Fire Protection
PO Box 18112 Heritage Mountain, Port Moody BC V3H4H2 Canada
Tel: +1 604 941 1001, Fax: +1 604 648 9311 mail@charcoat.com

Further information obtainable from:
Charcoat Passive Fire Protection
PO Box 18112 Heritage Mountain, Port Moody BC V3H4H2 Canada
Tel: +1 604 941 1001, Fax: +1 604 648 9311 mail@charcoat.com

1.4 Emergency telephone number:
During office hours tel.: +1 604 941 1001. At all other times please contact your national poisoning centre.

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 according to the CLP regulation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 Void
Hazard pictograms Void
Signal word Void
Hazard statements Void
Precautionary statements

P260 Do not breathe spray.
P284 In case of inadequate ventilation wear respiratory protection.
P280 Wear protective gloves / protective clothing.
P233 Keep container tightly closed.
P271 Use only outdoors or in a well-ventilated area.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.

Supplemental information:
EUH210 Safety data sheet available on request.

2.3 Other hazards

Results of PBT and vPvB assessment
PBT: Not applicable.

(Contd. on page 2)
Trade name: CharCoat SC60

- vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- 3.2 Mixtures
- Description: Mixture of substances listed below with non-hazardous additions.

<table>
<thead>
<tr>
<th>EC number: 911-815-4</th>
<th>tris(2-chloro-1-methylethyl)phosphate</th>
<th>1- &lt;5%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reg.nr.: 01-2119486772-26-xxxx</td>
<td>Acute Tox. 4, H302</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EC number: 919-446-0</th>
<th>Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, (2-25%) aromatics</th>
<th>1- &lt;5%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reg.nr.: 01-2119458049-33-xxxx</td>
<td>Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336</td>
<td></td>
</tr>
</tbody>
</table>

- Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- After inhalation:
  Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
- After skin contact:
  Immediately wash with water and soap and rinse thoroughly.
  If skin irritation continues, consult a doctor.
- After eye contact:
  Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing:
  Rinse out mouth and then drink plenty of water.
  Seek immediate medical advice.

- 4.2 Most important symptoms and effects, both acute and delayed
  May cause an allergic skin reaction.
  Information for doctor: No further relevant information available.
  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:
  CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
  Use fire extinguishing methods suitable to surrounding conditions.

- 5.2 Special hazards arising from the substance or mixture
  Formation of toxic gases is possible during heating or in case of fire.

- 5.3 Advice for firefighters
- Protective equipment:
  Wear fully protective suit.
  Wear self-contained respirator protective device.
SECTION 6: Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
  - Ensure adequate ventilation
  - Wear protective clothing.

- **Environmental precautions:**
  - Do not allow product to reach sewage system or any water course.
  - Inform respective authorities in case of seepage into water course or sewage system.

- **Methods and material for containment and cleaning up:**
  - Ensure adequate ventilation.
  - Clean the affected area carefully; suitable cleaners are:
    - Warm water and cleansing agent
    - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

- **Reference to other sections**
  - No dangerous substances are released.
  - 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

- **Precautions for safe handling**
  - Ensure good ventilation/exhaustion at the workplace.
  - Avoid contact with the eyes and skin.

- **Conditions for safe storage, including any incompatibilities**
  - **Storage:**
    - **Requirements to be met by storerooms and receptacles:**
      - Store only in unopened original receptacles.
    - **Information about storage in one common storage facility:**
      - Protect from heat and direct sunlight.
    - **Further information about storage conditions:**
      - Store in cool, dry conditions in well sealed receptacles.
      - Protect from frost.
      - Storage temperature: +5 °C to +25 °C

- **Specific end use(s)**
  - No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Control parameters**
  - **Ingredients with limit values that require monitoring at the workplace:**
    - Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, (2-25%) aromatics
    - OES | Long-term value: 600 mg/m³

- **Additional information:** The lists valid during the making were used as basis.
8.2 Exposure controls

- Personal protective equipment:
- General protective and hygienic measures:
  Do not breathe spray.
  Avoid contact with the eyes and skin.
- Respiratory protection:
  Only during spraying without adequate removal by suction.
  Filter A/P2
- Protection of hands:

  Protective gloves

  The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

  - Material of gloves
    Fluorocarbon rubber (Viton)
    Nitrile rubber, NBR
    PVC or PE gloves

    The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

  - Penetration time of glove material
    The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

  - Eye protection:

    Tightly sealed goggles

- Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- General Information
- Appearance:
  - Form: Liquid
  - Colour: White
  - Odour: Uncharacteristic.
- pH-value: 8.0 - 9.5
- Boiling point/Boiling range: 100 °C
- Flash point: Not applicable.
- Danger of explosion: Product does not present an explosion hazard.
Trade name: CharCoat SC60

Vapour pressure at 20 °C: 2.4 hPa
Density at 20 °C: 1.4 g/cm³
Solubility in / Miscibility with water: Fully miscible.
Solvent content:
VOC (EU) 16 g/l
VOC (EC) 1.18 %
9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity
10.1 Reactivity Stable
10.2 Chemical stability
10.3 Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
10.4 Possibility of hazardous reactions Reacts with acids, alkalis and oxidising agents.
10.5 Conditions to avoid No further relevant information available.
10.6 Incompatible materials: No further relevant information available.
10.7 Hazardous decomposition products: Possible in traces.
Carbon monoxide and carbon dioxide
Nitrogen oxides

SECTION 11: Toxicological information
11.1 Information on toxicological effects
11.2 Acute toxicity Based on available data, the classification criteria are not met.
11.3 Primary irritant effect:
Skin corrosion/irritation Slight irritation possible
Serious eye damage/irritation Slight irritation possible.
Respiratory or skin sensitisation Sensitising effect by skin contact is possible by prolonged exposure.
CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
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: No further relevant information available.
12.2 Persistence and degradability No further relevant information available.
12.3 Bioaccumulative potential No further relevant information available.
12.4 Mobility in soil No further relevant information available.
Trade name: CharCoat SC60

- Additional ecological information:
- General notes:
  Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- 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
    Disposal must be made according to official regulations.
    Must not be disposed together with household garbage. Do not allow product to reach sewage system.
  - Waste disposal key: UK (WM3): n/a

- European waste catalogue
  08 01 20 | aqueous suspensions containing paint or varnish other than those mentioned in 08 01 19

- Uncleaned packaging:
  - Recommendation:
    Dispose of packaging according to regulations on the disposal of packagings.
    Packagings that may not be cleansed are to be disposed of in the same manner as the product.
    Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
  - Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- 14.1 UN-Number
  - ADR, ADN, IMDG, IATA: Void

- 14.2 UN proper shipping name
  - ADR, ADN, IMDG, IATA: Void

- 14.3 Transport hazard class(es)
  - ADR, ADN, IMDG, IATA
    - Class: Void

- 14.4 Packing group
  - ADR, IMDG, IATA: Void

- 14.5 Environmental hazards:
  - Marine pollutant: No

- 14.6 Special precautions for user
  Not applicable.

- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
  Not applicable.

(Contd. on page 7)
SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
"CHIP" SI 2009 No.716.
COMMISSION REGULATION (EU) 2015/830 of 28 May 2015

National regulations:
Additional classification according to Decree on Hazardous Materials, Annex II:
No further relevant information available.

Information about limitation of use: No further relevant information available.

Other regulations, limitations and prohibitive regulations
Substances of very high concern (SVHC) according to REACH, Article 57 Not applicable.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.

Relevant phrases
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (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 Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Acute Tox. 4: Acute toxicity, Hazard Category 4
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2