1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name: Cablecure® 732/80 – 212m 1:2 Blend

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Additive for power cable

1.3 Details of the supplier of the safety data sheet

Company: Novinium, Inc.
22820 Russell Road
Kent, WA 98032
USA

Telephone: +1 253-395-0200
Fax: +1 253-395-1040

1.4 Emergency telephone number

Emergency Phone #: +1 703-527-3887
+1 800-424-9300 (within US or Canada).

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 4), H227
Acute toxicity, Oral (Category 4), H302
Reproductive toxicity (Category 1B), H360

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Warning

Hazard statement(s)
H227: Combustible liquid
H302: Harmful if swallowed.
H360: May damage fertility or the unborn child

Precautionary statement(s)
P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P264: Wash skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves and clothing/ eye protection/ face protection.
P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
P330: Rinse mouth.
P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyanobutylmethyldimethoxysilane</td>
<td></td>
<td>&lt; 27 %</td>
</tr>
<tr>
<td>CAS-No. 793681-94-4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bis(2-(2-methoxyethoxy)ethyl)ether</td>
<td>Repr. 1B: H360</td>
<td>&lt; 65 %</td>
</tr>
<tr>
<td>CAS-No. 143-24-8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tolyylethylmethyldimethoxysilane</td>
<td></td>
<td>&lt; 1 %</td>
</tr>
<tr>
<td>CAS-No. 722542-80-5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>p-Methylenethyldimethoxysilane</td>
<td></td>
<td>&lt; 1 %</td>
</tr>
<tr>
<td>CAS-No. 722542-79-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ferrocene</td>
<td>Flam. Sol. 1; Acute Tox. 4; H228, H302</td>
<td>&lt; 4 %</td>
</tr>
<tr>
<td>CAS-No. 102-54-5</td>
<td>EC-No. 203-039-3</td>
<td></td>
</tr>
<tr>
<td>Tinuvin 123</td>
<td>Aquatic Chronic 4; H413</td>
<td>&lt; 4 %</td>
</tr>
<tr>
<td>CAS-No. 129757-67-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tinuvin 1130</td>
<td>Allergic Skin Reaction; H317</td>
<td>&lt; 2 %</td>
</tr>
<tr>
<td>CAS-No. 104810-47-1</td>
<td>Aquatic Toxicity; H411</td>
<td></td>
</tr>
<tr>
<td>Irgastab Cable KV 10</td>
<td>Trade Secret</td>
<td>&lt; 2 %</td>
</tr>
<tr>
<td>CAS-No.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4-[(Dimethoxymethyl)silyl]propyl]-2, 6 – di – tert – butylphenol</td>
<td>Aquatic Toxicity; H411</td>
<td>&lt; 2 %</td>
</tr>
<tr>
<td>CAS-No. 102567-35-1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
no data available
5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water fog, alcohol-resistant foam, dry chemical or carbon dioxide. Do not use water jet.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, nitrogen oxides (NOx), sulphur oxides, iron oxides, silicon oxides

5.3 Advice for firefighters
Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.
Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
Components with workplace control parameters
### Component CAS-No. Value Control parameters Basis

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Value</th>
<th>Control parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ferrocene</td>
<td>102-54-5</td>
<td>TWA</td>
<td>10 mg/m3</td>
<td>USA. ACGIH Threshold Limit Values (TLV)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>15 mg/m3 (Total Dust)</td>
<td>USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>5 mg/m3 (Respirable Dust Fraction)</td>
<td>USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants</td>
</tr>
</tbody>
</table>

### 8.2 Exposure controls

**Appropriate engineering controls**
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment**

- **Eye/face protection**
  Safety glasses with side shields conforming to ANSI Z87.1. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH.

- **Skin protection**
  Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

  The selected protective gloves have to satisfy the specifications of ANSI 105.

- **Body Protection**
  Impervious clothing is recommended. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

- **Respiratory protection**
  Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.
  If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

  **Control of environmental exposure**
  Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

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

- **Appearance**
  Form: liquid
  Color: green to brown
- **Odor**
  Mildly sweet
- **Odor Threshold**
  10 to 20,000 ppm
- **pH**
  No data available
- **Melting point/freezing point**
  < -18 °C (< 0 °F)
- **Initial boiling point and boiling range**
  > 90 °C (> 194 °F)
- **Flash point**
  > 85 °C (> 185 °F)
- **Evaporation rate**
  Slow
- **Flammability (solid, gas)**
  No data available
- **Upper/lower flammability or explosive limits**
  No data available
k) Vapor pressure no data available
l) Vapor density >1
m) Relative density 1.02 g/cm³ @23°C
n) Water solubility Insoluble, reacts
o) Partition coefficient: no data available
   n-octanol/water
p) Auto-ignition temperature no data available
q) Decomposition temperature no data available
r) Viscosity 2.8 – 3.4 cS at 20 °C
s) Explosive properties no data available
t) Oxidizing properties no data available

9.2 Other safety information no data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
Reacts with water to liberate methanol.

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
no data available

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - no data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
no data available

Skin corrosion/irritation
no data available

Serious eye damage/eye irritation
no data available

Respiratory or skin sensitization
no data available

Germ cell mutagenicity
no data available

Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a
carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**
Presumed human reproductive toxicant

**Specific target organ toxicity - single exposure**
no data available

**Specific target organ toxicity - repeated exposure**
no data available

**Aspiration hazard**
no data available

**Potential health effects**

<table>
<thead>
<tr>
<th>Route</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>May be harmful if inhaled. May cause respiratory tract irritation.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>Skin</td>
<td>Harmful if absorbed through skin. May cause skin irritation.</td>
</tr>
<tr>
<td>Eyes</td>
<td>Causes eye irritation.</td>
</tr>
</tbody>
</table>

**Signs and Symptoms of Exposure**
This product reacts with water and moisture to form methanol. The combination of visual disturbances, metabolic acidosis, and formic acid in urine is evidence of methanol poisoning. The therapeutic intravenous administration of ethanol (10mls/hr) allows methanol to be preferentially oxidized and reduces production of methanol metabolites. Acidosis must be treated with intravenous administration of sodium bicarbonate and methanol elimination may be increased by hemodialysis, as indicated. Treatment should be based on blood methanol levels and acid/base balance.

Stomach - Irregularities - Based on Human Evidence (Ferrocene)
Stomach - Irregularities - Based on Human Evidence (Tinuvin 123)

**Additional Information**
RTECS: Not available

---

**12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**
no data available

**12.2 Persistence and degradability**
no data available

**12.3 Bioaccumulative potential**
no data available

**12.4 Mobility in soil**
no data available

**12.5 Results of PBT and vPvB assessment**
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**12.6 Other adverse effects**
no data available

---

**13. DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

**Product**
This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**
Dispose of as unused product.
14. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Revision Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ferrocene</td>
<td>102-54-5</td>
<td>1994-04-24</td>
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</tbody>
</table>

Pennsylvania Right To Know Components

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
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<tr>
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<tr>
<td>Bis(2-(2-methoxyethoxy)ethyl)ether</td>
<td>143-24-8</td>
<td></td>
</tr>
<tr>
<td>Silane, dimethoxymethyl[1-(methylene)pheny]ethyl-</td>
<td>722542-80-5</td>
<td></td>
</tr>
<tr>
<td>4-[[Dimethoxymethylsilyl]propyl]-2,6-di-tert-butylphenol</td>
<td>102567-35-1</td>
<td></td>
</tr>
<tr>
<td>Ferrocene</td>
<td>102-54-5</td>
<td>1994-04-24</td>
</tr>
<tr>
<td>Tinuvin 123</td>
<td>129757-67-1</td>
<td></td>
</tr>
<tr>
<td>Tinuvin 1130</td>
<td>104810-48-2</td>
<td></td>
</tr>
</tbody>
</table>

New Jersey Right To Know Components

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Revision Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyanobutylmethyldimethoxysilane</td>
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<td>Bis(2-(2-methoxyethoxy)ethyl)ether</td>
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</tr>
<tr>
<td>Tinuvin 123</td>
<td>129757-67-1</td>
<td></td>
</tr>
</tbody>
</table>

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

<table>
<thead>
<tr>
<th>Acute Tox.</th>
<th>Acute toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquatic Chronic</td>
<td>Chronic aquatic toxicity</td>
</tr>
<tr>
<td>Flam. Sol.</td>
<td>Flammable solids</td>
</tr>
<tr>
<td>H227</td>
<td>Combustible liquid</td>
</tr>
<tr>
<td>H228</td>
<td>Flammable solid.</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>H360</td>
<td>May damage fertility or the unborn child</td>
</tr>
<tr>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects.</td>
</tr>
</tbody>
</table>
H413 May cause long lasting harmful effects to aquatic life.

**HMIS Rating**
- Health hazard: 1
- Chronic Health Hazard: *
- Flammability: 2
- Physical Hazard: 0

**NFPA Rating**
- Health hazard: 1
- Fire Hazard: 2
- Reactivity Hazard: 0

**Further information**
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