Material Safety Data Sheet
Scintiverse BD Cocktail

MSDS# 60803

Section 1 - Chemical Product and Company Identification

<table>
<thead>
<tr>
<th>MSDS Name</th>
<th>Scintiverse BD Cocktail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catalog Numbers</td>
<td>SX18-250, SX18-4</td>
</tr>
<tr>
<td>Synonyms</td>
<td>None</td>
</tr>
<tr>
<td>Company Identification</td>
<td>Fisher Scientific</td>
</tr>
<tr>
<td></td>
<td>One Reagent Lane</td>
</tr>
<tr>
<td></td>
<td>Fair Lawn, NJ 07410</td>
</tr>
<tr>
<td>For information in the US,</td>
<td>201-796-7100</td>
</tr>
<tr>
<td>call:</td>
<td>Emergency Number US:</td>
</tr>
<tr>
<td></td>
<td>201-796-7100</td>
</tr>
<tr>
<td></td>
<td>CHEMTREC Phone Number, US:</td>
</tr>
<tr>
<td></td>
<td>800-424-9300</td>
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Section 2 - Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>Risk Phrases:</th>
<th>CAS#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>92-71-7</td>
</tr>
<tr>
<td>Chemical Name:</td>
<td>2,5-diphenyl-oxazole</td>
</tr>
<tr>
<td>%:</td>
<td>0.37</td>
</tr>
<tr>
<td>EINECS#:</td>
<td>202-181-3</td>
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<tr>
<td>Hazard Symbols:</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Risk Phrases:</th>
<th>CAS#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>577-11-7</td>
</tr>
<tr>
<td>Chemical Name:</td>
<td>Dioctyl sodium sulfosuccinate</td>
</tr>
<tr>
<td>%:</td>
<td>13.</td>
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<td>EINECS#:</td>
<td>209-406-4</td>
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<td>Hazard Symbols:</td>
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<table>
<thead>
<tr>
<th>Risk Phrases:</th>
<th>CAS#</th>
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<tbody>
<tr>
<td></td>
<td>3806-34-6</td>
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<tr>
<td>Chemical Name:</td>
<td>Distearl pentaerythritol diphosphate</td>
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<tr>
<td>%:</td>
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<td>EINECS#:</td>
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<table>
<thead>
<tr>
<th>Risk Phrases:</th>
<th>CAS#</th>
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<tbody>
<tr>
<td></td>
<td>9016-45-9</td>
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<tr>
<td>Chemical Name:</td>
<td>Ethylene oxide-nonylphenol polymer</td>
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<tr>
<td>%:</td>
<td>3.4</td>
</tr>
<tr>
<td>EINECS#:</td>
<td>unlisted</td>
</tr>
<tr>
<td>Hazard Symbols:</td>
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</table>
### Risk Phrases:

<table>
<thead>
<tr>
<th>CAS#</th>
<th>13280-61-0</th>
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</thead>
<tbody>
<tr>
<td>Chemical Name</td>
<td>Benzene, 1,4-bis2-(2-methylphenyl)ethenyl-</td>
</tr>
<tr>
<td>%</td>
<td>0.08</td>
</tr>
<tr>
<td>EINECS#</td>
<td>236-285-5</td>
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</table>

### Chemical Name:

Benzene, 1,4-bis2-(2-methylphenyl)ethenyl

### Hazard Symbols:

---

### Risk Phrases:

<table>
<thead>
<tr>
<th>CAS#</th>
<th>67774-74-7</th>
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</thead>
<tbody>
<tr>
<td>Chemical Name</td>
<td>Benzene, c10-13-alkyl derivatives</td>
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<tr>
<td>%</td>
<td>82.8</td>
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<tr>
<td>EINECS#</td>
<td>267-051-0</td>
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### Chemical Name:

Benzene, c10-13-alkyl derivatives

### Hazard Symbols:

---

### Text for R-phrases: see Section 16

<table>
<thead>
<tr>
<th>Hazard Symbols:</th>
<th>None listed</th>
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</thead>
<tbody>
<tr>
<td>Risk Phrases:</td>
<td>None listed</td>
</tr>
</tbody>
</table>

### Section 3 - Hazards Identification

**EMERGENCY OVERVIEW**

Warning! May cause skin irritation. May cause central nervous system depression. May cause respiratory and digestive tract irritation. May cause severe eye irritation and possible injury. Target Organs: Central nervous system.

**Potential Health Effects**

**Eye:** Contact may cause severe eye irritation and possible eye damage.

**Skin:** May cause skin irritation. Prolonged and/or repeated contact may cause defatting of the skin and dermatitis. Causes gastrointestinal irritation with nausea, vomiting and diarrhea. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure.

**Inhalation:** May cause respiratory tract irritation. May cause effects similar to those described for ingestion.

**Chronic:** No information found.

### Section 4 - First Aid Measures

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

**Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:** If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately.

**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:**

### Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Combustion generates toxic fumes.

**Extinguishing Media:** For small fires, use water spray, dry chemical, carbon dioxide or chemical foam.

**Autoignition Temperature:** Not available.

**Flash Point:** > 137.8 deg C (> 280.04 deg F)

**Explosion Limits:** Not available
Lower:
Explosion Limits: Not available
Upper:
NFPA Rating: health: 1; flammability: 1; instability: 0;

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Absorb spill using an absorbent, non-combustible material such as earth, sand, or vermiculite. Do not use combustible materials such as sawdust.

Section 7 - Handling and Storage
Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with skin and eyes. Avoid ingestion and inhalation.
Storage: Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA - Final PELs</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,5-diphenyl-oxazole</td>
<td>none listed</td>
<td>none listed</td>
<td>none listed</td>
</tr>
<tr>
<td>Dioctyl sodium sulfosuccinate</td>
<td>none listed</td>
<td>none listed</td>
<td>none listed</td>
</tr>
<tr>
<td>Distearyl pentaerythritol diphosphite</td>
<td>none listed</td>
<td>none listed</td>
<td>none listed</td>
</tr>
<tr>
<td>Ethylene oxide-nonylphenol polymer</td>
<td>none listed</td>
<td>none listed</td>
<td>none listed</td>
</tr>
<tr>
<td>Benzene, 1,4-bis2-(2-methylphenyl)ethynyl</td>
<td>none listed</td>
<td>none listed</td>
<td>none listed</td>
</tr>
<tr>
<td>Benzene, c10-13-alkyl derivatives</td>
<td>none listed</td>
<td>none listed</td>
<td>none listed</td>
</tr>
</tbody>
</table>
| OSHA Vacated PELs: 2,5-diphenyl-oxazole: None listed Dioctyl sodium sulfosuccinate: None listed Distearyl pentaerythritol diphosphite: None listed Ethylene oxide-nonylphenol polymer: None listed Benzene, 1,4-bis2-(2-methylphenyl)ethynyl: None listed Benzene, c10-13-alkyl derivatives: None listed

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Personal Protective Equipment
Eyes: Wear safety glasses and chemical goggles or face shield if handling liquids.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a Respirators: NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Liquid
Color: not available
Odor: none reported
pH: Not available
Vapor Pressure: Not available
Vapor Density: Not available
Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: High temperatures, incompatible materials.

Incompatibilities with Other Materials: Not available

Hazardous Decomposition Products: Phosphine, carbon monoxide, oxides of nitrogen, oxides of sulfur, carbon dioxide.

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

CAS# 92-71-7: RP6825000
CAS# 577-11-7: WN0525000
CAS# 3806-34-6: None listed

RTECS#: 

RTECS: Not available. RTECS:

CAS# 577-11-7: Draize test, rabbit, eye: 250 ug Mild;
Draize test, rabbit, eye: 1% Severe;
Draize test, rabbit, skin: 10 mg/24H Moderate;
Oral, mouse: LD50 = 2643 mg/kg;
Oral, rat: LD50 = 1900 mg/kg;

RTECS:

CAS# 3806-34-6:

RTECS:

CAS# 9016-45-9: Draize test, rabbit, eye: 5 mg Severe;
Draize test, rabbit, eye: 5 mg Severe;
Draize test, rabbit, eye: 20 mg Severe;
Draize test, rabbit, eye: 100 mg Severe;
Draize test, rabbit, eye: 15 mg Severe;
Draize test, rabbit, eye: 5 mg Severe;
Oral, mouse: LD50 = >50 gm/kg;
Oral, rat: LD50 = 4 gm/kg;

LD50/LC50: 

Oral, rat: LD50 = 1310 mg/kg;
Oral, rat: LD50 = 2590 uL/kg;
Oral, rat: LD50 = >3 gm/kg;
Oral, rat: LD50 = 4290 uL/kg;
Oral, rat: LD50 = 3670 uL/kg;
Oral, rat: LD50 = 3730 uL/kg;
Oral, rat: LD50 = 4 gm/kg;
Oral, rat: LD50 = 16 gm/kg;
Skin, rabbit: LD50 = 2 mL/kg;
Skin, rabbit: LD50 = 2830 uL/kg;
Skin, rabbit: LD50 = 2520 uL/kg;
Skin, rabbit: LD50 = 1780 uL/kg;
Skin, rabbit: LD50 = 3970 uL/kg;
Skin, rabbit: LD50 = 4490 uL/kg;
RTECS:
CAS# 13280-61-0:

2,5-diphenyl-oxazole - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Dioctyl sodium sulfo succinate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Distearyl pentaerythritol diphosphate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Carcinogenicity:
Ethylene oxide-nonylphenol polymer - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Benzene, 1,4-bis(2-methylphenyl)ethenyl - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Benzene, c10-13-alkyl derivatives - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Other: No information available.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

US DOT
Shipping Name: Not regulated.
Hazard Class:
UN Number:
Packing Group:
Canada TDG
Shipping Name: Not regulated as a hazardous material
Hazard Class:
UN Number:
Packing Group:

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available
Risk Phrases:
Safety Phrases:

WGK (Water Danger/Protection)

CAS# 92-71-7: Not available
CAS# 577-11-7: 2
CAS# 3806-34-6: Not available
CAS# 9016-45-9: 2
CAS# 13280-61-0: Not available
CAS# 67774-74-7: 1

Canada

CAS# 92-71-7 is listed on Canada's DSL List
CAS# 577-11-7 is listed on Canada's DSL List
CAS# 3806-34-6 is listed on Canada's DSL List
CAS# 9016-45-9 is listed on Canada's DSL List
CAS# 13280-61-0 is listed on Canada's DSL List
CAS# 67774-74-7 is listed on Canada's DSL List
Canadian WHMIS Classifications: D2B
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 92-71-7 is not listed on Canada's Ingredient Disclosure List.
CAS# 577-11-7 is listed on Canada's Ingredient Disclosure List
CAS# 3806-34-6 is not listed on Canada's Ingredient Disclosure List.
CAS# 9016-45-9 is not listed on Canada's Ingredient Disclosure List.
CAS# 13280-61-0 is not listed on Canada's Ingredient Disclosure List.
CAS# 67774-74-7 is not listed on Canada's Ingredient Disclosure List.

US Federal
TSCA
CAS# 92-71-7 is listed on the TSCA Inventory.
CAS# 577-11-7 is listed on the TSCA Inventory.
CAS# 3806-34-6 is listed on the TSCA Inventory.
CAS# 9016-45-9 is listed on the TSCA Inventory.
CAS# 13280-61-0 is listed on the TSCA Inventory.
CAS# 67774-74-7 is listed on the TSCA Inventory.

Section 16 - Other Information
MSDS Creation Date: 9/02/1997
Revision #6 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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