# Material Safety Data Sheet

Prepared 2010-03-05

## Section 1 - Product and Company Information

Product Name: Spartaflex Part A Light Grey

Product Code: HP-SF700 APLG

Manufactured for: HP Spartacote, Inc.
810 Brickyard Circle #1
Golden, CO 80403

**In Case of Emergency:** CHEMTREC 1-800-424-9300

## Section 2 - Composition Information on Ingredients

| Chemical Name / CAS No | OSHA Exposure Limits | ACGIH Exposure Limits | Other Exposure Limits |
|---|---|---|---|
| Aspartic ester<br>TSN20<br>40 to 50% | | | No applicable information was found concerning any adverse chronic health effects from overexposure to this product. |
| PCBTF<br>98-56-6<br>10 to 20% | | | No standards set. |
| Titanium Dioxide (Dust)<br>13463-67-7<br>10 to 20% | The OSHA TWA is 15 mg/m3. | The ACGIH TLV is: 10 mg/m3 (total dust containing no asbestos). | NIOSH REL = potential occupational carcinogen. The NIOSH IDLH = (Ca) 5,000 mg/m3. HSE TWA for titanium dioxide is 10 mg/m3 (total dust) and 5 mg/m3 (respirable fraction). The DFG MAK is 6.0 mg/m3. |
| Aromatic Hydrocarbon<br>64742-95-6<br>5 to 10% | 500 ppm TWA OSHA PEL<br>100 ppm TWA OSHA VPEL | 100 ppm TWA ACGIH TLV | |

## Section 3 - Hazards Identification

**WARNING!**
**Flammable liquid and vapor.**
**Harmful if inhaled or swallowed.**
**Causes eye, skin and respiratory tract irritation.**
**Aspiration Hazard - May cause lung damage or even death due to chemical pneumonia.**

| | |
|---|---|
| **Health** | **2*** |
| **Flammability** | **2** |
| **Physical Hazard** | **1** |
| **Personal Protection** | **X** |

**HMIS Rating**

**Primary Routes of Entry:**

**Inhalation** **Skin Contact** **Eye Contact** **Ingestion**

**Target Organs:**

**Eyes** **Kidneys** **Liver** **Lungs** **Nervous System** **Skin**

**Effects of Overexposure, Spartaflex Part A Light Grey:**

| | |
|---|---|
| Short Term Exposure | Inhalation of dust can cause irritation of the eyes and respiratory tract, causing cough and phlegm. Irritates the skin. Causes local irritation to skin, eyes and mucous membranes. May cause irritation by any route of exposure. The LD50 rat is 13 gm/kg (13,000 mg/kg) (insignificantly toxic). |
| Long Term Exposure | High exposures to dust may cause lung irritation; bronchitis may develop. Continued exposure may result in emphysema, lung scarring, lung fibrosis, and tumors. A potential occupational carcinogen. There is evidence that this chemical is a mutagen. |

## Section 4 - First Aid Measures

**Inhalation:** Remove source of contamination or move victim to fresh air. Obtain medical advice.

**Eyes:** Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Immediately obtain medical attention.

**Skin:** Remove contaminated clothing, shoes and leather goods. Quickly and gently blot or brush away excess chemical. Immediately wash with lukewarm, gently flowing water and non-abrasive soap for 15-20 minutes. Completely decontaminate clothing, shoes and leather goods before reuse or discard.

**Ingestion:** Never give anything by mouth if victim is rapidly losing consciousness, is unconscious or convulsing. DO NOT INDUCE VOMITING. Have victim drink 60 to 240 ml (2 to 8 oz.) of water. If vomiting occurs naturally, have victim rinse mouth with water again. Obtain medical attention.

## Section 5 - Firefighting Measures

Flash Point: 42 C (108 F)

LEL: 0.9 %

UEL: 10.5 %

**Extinguishing Media:** Use dry chemical, foam or fog.

**Unusual Fire and Explosion Hazards:** Vapors are heavier than air and may spread along floors. Vapors can travel to a source of ignition and flash back. Vapors in confined areas may explode when exposed to fire. Containers may explode in fire. Storage containers and parts of containers may rocket great distances, in many directions.

**Hazardous Combustion Products:** See Section 10 for a list of hazardous decomposition products for this material.

**Fire Fighting:** If evacuation of personnel is necessary, evacuate to an upwind area. Decontaminate personnel and equipment with water wash-down after fire and smoke exposure.

## Section 6 - Accidental Release Measures

**Spill and Leak Procedures:** Ensure cleanup personnel wear all appropriate Personal Protective Equipment (PPE), including respiratory protection. Remove all ignition sources. Keep nonessential personnel away from the contaminated area.

**Small Spills:** Ventilate the contaminated area. Using non-sparking tools, mix the appropriate sorbent into the spilled material. Use an absorbent like sawdust for aqueous, waterborne or solvent-borne coatings. Collect the saturated sorbent and transfer it into a covered container. Steel containers are acceptable for all wastes except wastes which contain acid. Use suitable plastic containers for acid-bearing wastes. Label the waste containers. Dispose of the waste in compliance with all federal, state, regional and local regulations.

**Large Spills:** Prevent this material from entering sewers and watercourses by diking or impounding the spilled material. Advise authorities if the product has entered or may enter sewers, watercourses or extensive land areas. Ventilate the contaminated area. Using non-sparking tools, mix the appropriate sorbent into the spilled material. Use an absorbent like sawdust for aqueous, waterborne or solvent-borne coatings. Collect the saturated sorbent and transfer it into a covered container. Steel containers are acceptable for all wastes except wastes which contain acid. Use suitable plastic containers for acid-bearing wastes. Label the waste container. Dispose of the waste in compliance with all federal, state, regional and local regulations.

## Section 7 - Handling and Storage

**Handling Precautions:** Do not breathe vapors at concentrations greater than the exposure limits. Use only with adequate ventilation. Keep container tightly closed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

**Prevention of Fire and Explosion:** Keep away from open flames, hot surfaces and sources of ignition. Use only with adequate ventilation. Keep from contact with oxidizing materials. Comply with all national, state and local codes pertaining to the storage, handling, dispensing and disposal of flammable liquids.

**Storage:** Store in a cool place. Keep containers tightly closed in a cool, well ventilated area. Keep away from incompatible substances. (see incompatibilities Section 10)

## Section 8 - Exposure Controls / Personal Protection

**Ventilation:** Use process enclosures, local exhaust, ventilation or other engineering controls to maintain airborne exposure levels below recommended exposure limits. Controls should be sufficient so that applicable occupational exposure limits are not exceeded.

**Respiratory Protection:** If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. If respirators are used, a program should be instituted to assure compliance with applicable federal, state, commonwealth, provincial or local laws and regulations.

**Eye Protection:** Wear safety glasses, glasses with side shields or goggles.

**Skin and Body Protection:** Wear impervious gloves and protective clothing appropriate for the risk of exposure.

## Section 9 - Physical and Chemical Properties

This product typically exhibits the following properties under normal conditions:

| | |
|---|---|
| Appearance | **Viscous liquid dispersion** |
| Odor | **Solvent** |
| Physical State | **Liquid** |
| Vapor Density | 3.65 |
| Vapor Pressure | 2 mm Hg 100 F |
| Boiling Range | 138 to 185 C |
| % Wt HAPS | 0.00 |
| % Vol Exempt | 17.17 |
| % Wt Exempt | 18.80 |
| % Wt Water | 0.00 |
| Specific Gravity (SG) | 1.224 |
| Formula Lb / Gal | 10.22 |
| % Wt Solids | 75.47 |
| % Vol Solids | 74.79 |
| Lb VOC/Gal less water | 0.59 |
| Grams VOC/Liter (EU) | 0-300 g/L |

## Section 10 - Stability and Reactivity

**Stability:**

UNSTABLE

**Components of this product are incompatible with the following materials:**

Strong oxidizing agents

**This product is likely to exhibit the following combustion products:**

Carbon dioxide
Carbon monoxide
Oxides of carbon
Ammonia gas at high temperatures

Hazardous polymerization will not occur.

## Section 11 - Toxicological Information

Aspartic ester
LC 50: Acute inhalation: .4,224 mg/l, aerosol, 4 h (rat)
LD 50: Acute oral: >2,000 mg/kg (rat); Acute dermal: >2,000 mg/kg (rat)

## Section 12 - Ecological Information

This product has not been tested for environmental effects.

## Section 13 - Disposal Considerations

Discharge, treatment or disposal is subject to federal, state, commonwealth, provincial and local laws. Since empty containers retain product residue, follow label warnings even after container is emptied. Residual vapors may explode on ignition; do not cut, drill, grind or weld on or near this container.

## Section 14 - Transport Information

| Agency | Proper Shipping Name | UN Number | Packing Group | Hazard Class |
|---|---|---|---|---|
| DOT | PAINT, NON-HAZ, NONREGLUATED | | | |
| ICAO/IATA | PAINT, NON-HAZ, NONREGULATED | | | |
| TDG | PAINT, NON-HAZ, NONREGULATED | | | |

## Section 15 - Regulatory Information

The following chemicals are regulated under California Proposition 65:
13463-67-7 Titanium Dioxide (Dust) 10 to 20 percent

The following components are listed on the TSCA Inventory:
13463-67-7 Titanium Dioxide (Dust) 10 - 20%

The following components are SARA 311/312 hazards:
64742-95-6 Aromatic Hydrocarbon 5 - 10%
98-56-6 PCBTF 10 - 20%
TSN20 Aspartic ester 40 - 50%

## Section 16 - Other Information

Material Safety Data Sheets (MSDS) are available free of charge for every product that is manufactured. Before using any paint product, we strongly recommend that you read and follow the precautions listed on the MSDS.

This supersedes all previous publications. Always consult your representative for the latest product information and recommendations.

The information presented herein has been compiled from sources considered to be dependable and accurate to the best of the seller's knowledge. However, seller makes no warranty whatsoever, expressed, implied or of merchantability regarding the accuracy of such data or the results to be obtained from the use thereof. Seller assumes no responsibility for injury to buyer or third party or any damage to property. Buyer assumes all such risks.

# Material Safety Data Sheet

Prepared 2010-03-05

## Section 1 - Product and Company Information

Product Name: Spartaflex Pigmented Part B

Product Code: HP-SF700 BP

Manufactured for: HP Spartacote, Inc.
810 Brickyard Circle #1
Golden, CO 80403

**In Case of Emergency:** CHEMTREC 1-800-424-9300

## Section 2 - Composition Information on Ingredients

| Chemical Name / CAS No | OSHA Exposure Limits | ACGIH Exposure Limits | Other Exposure Limits |
|---|---|---|---|
| Hexane, 1,6-Diisoycanato-,Homopolymer<br>28182-81-2<br>60 to 70% | TWA 0.5 mg/m3<br>STEL 1.00 mg/m3 (15 min) | | |
| Aromatic Hydrocarbon<br>64742-95-6<br>10 to 20% | 500 ppm TWA OSHA PEL<br>100 ppm TWA OSHA VPEL | 100 ppm TWA ACGIH TLV | |
| PCBTF<br>98-56-6<br>10 to 20% | | | No standards set. |

## Section 3 - Hazards Identification

**WARNING!**
**Flammable liquid and vapor.**
**Harmful if inhaled or swallowed.**
**Causes eye, skin and respiratory tract irritation.**
**Aspiration Hazard - May cause lung damage or even death due to chemical pneumonia.**

**Primary Routes of Entry:**

**Inhalation** **Skin Contact** **Eye Contact** **Ingestion**

| | |
|---|---|
| **Health** | **2*** |
| **Flammability** | **2** |
| **Physical Hazard** | **1** |
| **Personal Protection** | **X** |

**HMIS Rating**

**Target Organs:**

**Eyes** **Kidneys** **Liver** **Lungs** **Nervous System** **Skin**

**Effects of Overexposure, Spartaflex Pigmented Part B:**

Short Term Exposure: Causes local irritation to skin, eyes and mucous membranes. May cause irritation by any route of exposure. The LD50 rat is 13 gm/kg (13,000 mg/kg) (insignificantly toxic).

**Effects of Overexposure, Spartaflex Pigmented Part B:**
Long Term Exposure There is evidence that this chemical is a mutagen.

## Section 4 - First Aid Measures

**Inhalation:** Remove source of contamination or move victim to fresh air. Obtain medical advice.

**Eyes:** Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Immediately obtain medical attention.

**Skin:** Remove contaminated clothing, shoes and leather goods. Quickly and gently blot or brush away excess chemical. Immediately wash with lukewarm, gently flowing water and non-abrasive soap for 15-20 minutes. Completely decontaminate clothing, shoes and leather goods before reuse or discard.

**Ingestion:** Never give anything by mouth if victim is rapidly losing consciousness, is unconscious or convulsing. DO NOT INDUCE VOMITING. Have victim drink 60 to 240 ml (2 to 8 oz.) of water. If vomiting occurs naturally, have victim rinse mouth with water again. Obtain medical attention.

## Section 5 - Firefighting Measures

Flash Point: 42 C (108 F)
LEL: 0.9 %
UEL: 10.5 %

**Extinguishing Media:** Use dry chemical, foam or fog.

**Unusual Fire and Explosion Hazards:** Vapors are heavier than air and may spread along floors. Vapors can travel to a source of ignition and flash back. Vapors in confined areas may explode when exposed to fire. Containers may explode in fire. Storage containers and parts of containers may rocket great distances, in many directions.

**Hazardous Combustion Products:** See Section 10 for a list of hazardous decomposition products for this material.

**Fire Fighting:** If evacuation of personnel is necessary, evacuate to an upwind area. Decontaminate personnel and equipment with water wash-down after fire and smoke exposure.

## Section 6 - Accidental Release Measures

**Spill and Leak Procedures:** Ensure cleanup personnel wear all appropriate Personal Protective Equipment (PPE), including respiratory protection. Remove all ignition sources. Keep nonessential personnel away from the contaminated area.
**Small Spills:** Ventilate the contaminated area. Using non-sparking tools, mix the appropriate sorbent into the spilled material. Use an absorbent like sawdust for aqueous, waterborne or solvent-borne coatings. Collect the saturated sorbent and transfer it into a covered container. Steel containers are acceptable for all wastes except wastes which contain acid. Use suitable plastic containers for acid-bearing wastes. Label the waste containers. Dispose of the waste in compliance with all federal, state, regional and local regulations.
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## Section 7 - Handling and Storage

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**Prevention of Fire and Explosion:** Keep away from open flames, hot surfaces and sources of ignition. Use only with adequate ventilation. Keep from contact with oxidizing materials. Comply with all national, state and local codes pertaining to the storage, handling, dispensing and disposal of flammable liquids.

**Storage:** Store in a cool place. Keep containers tightly closed in a cool, well ventilated area. Keep away from incompatible substances. (see incompatibilities Section 10)

## Section 8 - Exposure Controls / Personal Protection

**Ventilation:** Use process enclosures, local exhaust, ventilation or other engineering controls to maintain airborne exposure levels below recommended exposure limits. Controls should be sufficient so that applicable occupational exposure limits are not exceeded.

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**Eye Protection:** Wear safety glasses, glasses with side shields or goggles.

**Skin and Body Protection:** Wear impervious gloves and protective clothing appropriate for the risk of exposure.

## Section 9 - Physical and Chemical Properties

This product typically exhibits the following properties under normal conditions:

| | |
|---|---|
| Appearance | **Viscous liquid dispersion** |
| Odor | **Solvent** |
| Physical State | **Liquid** |
| Vapor Density | 3.86 |
| Vapor Pressure | 9 mm Hg 100 F |
| Boiling Range | 138 to 139 C |
| % Wt HAPS | 0.00 |
| % Vol Exempt | 9.15 |
| % Wt Exempt | 11.24 |
| % Wt Water | 0.00 |
| Specific Gravity (SG) | 1.091 |
| Formula Lb / Gal | 9.10 |
| % Wt Solids | 68.92 |
| % Vol Solids | 66.01 |
| Lb VOC/Gal less water | 1.81 |
| Grams VOC/Liter (EU) | 0-300 g/L |

## Section 10 - Stability and Reactivity

**Stability:**

Stable

**Components of this product are incompatible with the following materials:**

Strong oxidizing agents
Water
Strong bases
Copper

**This product is likely to exhibit the following combustion products:**

Carbon dioxide
Carbon monoxide
Hydrogen cyanide
Isocyanate
Amines
Oxides of nitrogen
Dense black smoke

Hazardous polymerization will not occur.

## Section 11 - Toxicological Information

Hexane, 1,6-Diisoycanato-,Homopolymer
LD 50: Acute oral: >5,000 mg/kg (rat)

## Section 12 - Ecological Information

This product has not been tested for environmental effects.

## Section 13 - Disposal Considerations

Discharge, treatment or disposal is subject to federal, state, commonwealth, provincial and local laws. Since empty containers retain product residue, follow label warnings even after container is emptied. Residual vapors may explode on ignition; do not cut, drill, grind or weld on or near this container.

## Section 14 - Transport Information

| Agency | Proper Shipping Name | UN Number | Packing Group | Hazard Class |
|---|---|---|---|---|
| DOT | PAINT, NON-HAZ, NONREGLUATED | | | |
| ICAO/IATA | PAINT, NON-HAZ, NONREGULATED | | | |
| TDG | PAINT, NON-HAZ, NONREGULATED | | | |

## Section 15 - Regulatory Information

The following chemicals are regulated under California Proposition 65:
822-06-0 Hexamethylene Diisocyanate 0.1 to 1.0 percent

The following components are listed on the TSCA Inventory:
98-56-6 PCBTF 10 - 20%

The following components are SARA 311/312 hazards:
64742-95-6 Aromatic Hydrocarbon 10 - 20%
98-56-6 PCBTF 10 - 20%
28182-81-2 Hexane, 1,6-Diisoycanato-,Homopolymer 60 - 70%

## Section 16 - Other Information

Material Safety Data Sheets (MSDS) are available free of charge for every product that is manufactured. Before using any paint product, we strongly recommend that you read and follow the precautions listed on the MSDS.

This supersedes all previous publications. Always consult your representative for the latest product information and recommendations.

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