

# SPI Supplies Division

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Manufacturer's CAGE: 1P573

# Safety Data Sheet

Date Effective: April 6, 2015

SPI05006-AB, 05006-GA, 05006-RA, 05006-XK

SPI Supplies® Carbon Suspension

## Section 1: Identification

Chemical Name/Synonyms..... Carbon suspension; Carbon paint

Chemical family..... Dry film lubricant

Emergencies

Contacting CHEMTREC:

24 Hour Emergency Use Only #'s...

Worldwide phone: 1-(703)-527-3887

Worldwide FAX: 1-(703)-741-6090

Toll-free phone: 1-(800)-424-9300 USA only

Product or Trade Name..... SPI Supplies® Carbon Suspension

CAS #'s..... 67-63-0; 7782-42-5; 71-36-3; 107-98-2

Chemical Formula..... Mixture

## Emergency Overview

### OSHA

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 14910.1200).

### OSHA Hazards

Flammable!, Highly Toxic, Causes Eye Irritation, Harmful if Swallowed

### GHS Classification

Skin Irritation – Category 2

Eye Irritation – Category 2A

Aspiration Toxicity- Category 1

Reproductive Toxicity- Category 2

Specific Target Organ toxicity – single exposure – Category 3

Aquatic Hazards- Category Acute 3



Signal Word: Danger, Harmful to aquatic life

### Hazard Statements:

H225: Highly flammable liquid and vapor

H304: May be fatal if swallowed and enters airways

H312: May be harmful in contact with skin

H315: Causes skin irritation  
H319: Causes serious eye irritation  
H336: May cause drowsiness or dizziness  
H361: Suspected of damaging fertility or the unborn child  
H371: May cause damage to organs

**Precautionary statements:**

P261: Avoid breathing dust/fume/gas/mist/vapors/spray  
P301 + P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P303 + P361 + P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

**Risk Phrases:**

R11: Highly flammable  
R36: Irritating to eyes  
R37: Irritating to respiratory system  
R38: Irritating to skin  
R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation  
R63: Possible risk of harm to the unborn child  
R65: Harmful: may cause lung damage if swallowed  
R67: Vapors may cause drowsiness and dizziness

**Safety Phrases:**

S2: Keep out of the reach of children  
S16: Keep away from sources of ignition-No smoking  
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
S29: Do not empty into drains  
S36/37: Wear suitable protective clothing and gloves  
S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label where possible

WGK Germany: 2

Hazardous Material Information System USA

Health..... 2  
Fire Hazard..... 3  
Reactivity..... 0  
Personal Protection.....

NFPA Rating (estimated)

Health..... 2  
Flammability..... 3  
Reactivity..... 0

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**Section 2: Composition**

<u>Component</u>	<u>CAS#</u>	<u>EC#</u>	<u>Percentage Range</u>
2-Propanol	67-63-0	200-661-7	60-100
Graphite	7782-42-5	231-955-3	10-30

n-Butyl alcohol	71-36-3	200-751-6	1-5
1-Methoxy-2-propanol	107-98-2	203-539-1	1-5

### Section 3: Hazard Identification

Routes of Exposure: Skin, Inhalation, Eyes, Ingestion

Potential Health Effects:

Inhalation: Inhalation of vapors or mists of the product may be irritating to the respiratory system. Breathing high concentrations of vapor may cause anesthetic effects. Excessive inhalation of this material causes headache, dizziness, nausea and in-coordination.

Skin Contact: Prolonged or excessive skin contact with this product may cause mild skin irritation. A component in this product may be absorbed through the skin, especially if skin is damaged. Repeated exposure may cause skin dryness or cracking. Dermatitis.

Eye Contact: Causes eye irritation. Exposure to vapor may cause tearing of the eyes, irritation and burning sensation.

Ingestion: May irritate mouth, throat, and stomach if swallowed. May cause central nervous system depression. Toxic if swallowed. May cause dizziness, in-coordination, headache, nausea, and vomiting. May cause drowsiness, faintness, weakness, collapse, and coma. Extreme overexposure may result in unconsciousness and possibly death.

Existing Conditions Aggravated by Exposure: Eye and respiratory disorders.

### Section 4: First Aid Measures

Inhalation: Move to Fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Skin Contact: Immediately flush skin with plenty of soap and water. Remove contaminated clothing and footwear. Wash clothing before reuse. Seek medical attention.

Eye Contact: Rinse immediately with plenty of water for at least 15 minutes, occasionally lifting upper and lower eyelids. Seek medical attention.

Ingestion: DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention.

### Section 5: Fire Fighting Measures

Flash point and method: 52.9° F/11.6° C Tagliabue Closed Cup

Flammable limits:

Upper Explosion Limit	12.0%/vol
Lower Explosion Limit	8.0%/vol

**General hazard:**

This is a flammable/combustible material and could be ignited by heat, sparks or flames. Vapors may travel to a source of ignition and flash back. Container may explode in heat or fire. Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard. We do not believe such hazards are very likely when the product is in the small brush applicator cap and bottle.

**Fire**

Small fire fighting instructions:

Dry chemical, CO<sub>2</sub>, water spray or fog,

alcohol-resistant foam. Do not use direct water stream on burning liquid.

Large fire fighting instructions:

Water spray, fog or alcohol-resistant foam. These instructions would be more applicable to wholesale bulk purchasers of SPI Carbon Paint suspension.

General fire fighting instructions:

Move container from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Stay away from ends of tanks. For massive fire in cargo area, use unmanned hose holder or monitor nozzles; if this is impossible, then withdraw from area and let fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tank due to fire. We believe this is not of much importance to uses of the little bottles of SPI Carbon Paint with brush applicator caps.

Firefighting equipment:

Positive pressure self-contained breathing apparatus (SCBA) and structural firefighter's protective clothing will provide limited protection.

Hazardous combustion or decomposition products:

Oxides of carbon, unknown hydrocarbons

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## Section 6: Accidental Release Measures

### **Spills:**

Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Refer to Section 8 for recommended personal protection. Shut off ignition sources. There should be absolutely no flares, smoking, or flames in hazard area. Stop leak if you can do it without risk. Water spray may reduce vapor, but it may not prevent ignition in closed spaces.

### **Small spills:**

Take up with sand other noncombustible absorbent material and place into containers for later disposal according to all local, state and federal regulations.

### **Large spills:**

Evacuate and ventilate spill area. Dike spill area to prevent entry into water system. Pump up liquid as much as possible, then absorb remaining material with inert absorbent material such as sand, sawdust, etc. Store in a partly filled, closed container until disposal. Wash area with soap & water. Dispose of wastes and water in accordance with all local, state and federal regulations.

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## Section 7: Handling and Storage

Handling: Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Refer to Section 8.

Storage: For safe storage, store between 5.0 °C (41 °F) and 30.0 °C (86 °F). Keep container closed. Store in a cool, dry, well-ventilated area. Storage within given temperature limit. Outside temperature limits, the properties of the product will change. Store in original container until ready to use. Keep out of reach of children and away from food and drink. Protect from direct sunlight.

## Section 8: Exposure Controls and Personal Protection

Engineering Controls: Safety showers and eye stations should be available to the work area. Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Respiratory Protection: Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

Eye/Face Protection: Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists.

Skin Protection: Use impermeable gloves and protective clothing as necessary to prevent skin contact.

<b>Hazardous Components</b>	<b>ACGIH TLV</b>	<b>OSHA PEL</b>	<b>AIHA WEEL</b>
2-Propanol	200 ppm TWA 400 ppm STEL	400 ppm (980 mg/m <sup>3</sup> TWA	none
Graphite	2 mg/m <sup>3</sup> TWA Respirable fraction.	15 mg/m <sup>3</sup> TWA Total dust. 5 mg/m <sup>3</sup> TWA Respirable fraction. 15 mppcf TWA	none
n-Butyl alcohol	20 ppm TWA	100 ppm (300 mg/m <sup>3</sup> ) TWA	none
1-Methoxy-2- propanol	150 ppm STEL 100 ppm TWA	none	none

\* mppcf = millions of particles per cubic foot of air

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## Section 9: Physical and Chemical Properties

Physical state: Liquid

Color: Black

Odor: Alcohol

Odor threshold: Not available

pH: Not available

Vapor pressure: 33 mm Hg

Boiling point/range: >82°C (>179.6°F)

Melting point/range: -88.8°C (-127.8°F)

Specific Gravity: 0.89 g/ml

Vapor density: 2.07

Flash point: 11.6°C (52.88°F) Tigliabue closed cup

Flammable/Explosive Limits:

lower – 2%

upper – 12%

Autoignition temperature: 398.8°C (749.84°F)

Evaporation Rate: 2.9 (Butyl acetate =1)

Solubility in water: Disperses in water as a suspension

Partition Coefficient (n-octanol/water): -0.14

VOC content: 710 g/l

Viscosity: 200-800 cp

## Section 10: Stability and Reactivity

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: None under normal processing.

Hazardous decomposition products: Carbon dioxide. Carbon monoxide. Hydrocarbons.

Incompatible materials: Strong oxidizing agents. Strong acids. Aldehydes.

Conditions to avoid: High temperatures. Oxidizing conditions.

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## Section 11: Toxicological Information

<b>Hazardous Components</b>	<b>Health Effects/Target Organs</b>
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2-Propanol	Allergen, Blood, Brain, Central nervous system, Irritant, Kidney, Liver, Spleen
Graphite	Lung
n-Butyl alcohol	Allergen, Central nervous system, Ear, Eyes, Irritant
1-Methoxy-2-propanol	Central Nervous system, Developmental, Irritant

No component of this material is listed as a carcinogen by NTP, IARC, or OSHA.

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## Section 12: Ecological Information

Do not empty into drains / surface water / ground water.

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## Section 13: Disposal Considerations

**Information provided is for unused product only.**

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: Wastes must be tested using methods described in 40 CFR part 261 to determine if it meets applicable definitions of hazardous wastes.

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## Section 14: Transport Information

US DOT Ground

Proper shipping name: Paint  
Hazard class or division: 3  
Identification number: UN 1263  
Packing group: II

International Air Transportation (ICAO/IATA)

Proper shipping name: Paint  
Hazard class or division: 3  
Identification number: UN 1263  
Packing group: II

Water Transportation (IMO/IMDG)

Proper shipping name: Paint  
Hazard class or division: 3  
Identification number: UN 1263  
Packing group: II

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## Section 15: Regulatory Information

### United States

TSCA 8b Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

TSCA 12b Export Notification: None above reporting de minimis

CERCLA/SARA Section 302 EHS: None above reporting de minimis

CERCLA/SARA Section 311/312: Immediate health, Fire

CERCLA/SARA Section 313: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372): n-Butyl alcohol (CAS# 71-36-3).

California Proposition 65: N California Proposition 65 listed chemicals are known to be present.

### Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

WHMIS hazard class: D2B, B2

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## Section 16: Other Information

### **Disclaimer of Liability:**

Caution! Do not use SPI Supplies products or materials in applications involving implantation within the body; direct or indirect contact with the blood pathway; contact with bone, tissue, tissue fluid, or blood; or prolonged contact with mucous membranes. Products offered by SPI Supplies are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. SPI Supplies will not provide to customers making devices for such applications any notice, certification, or information necessary for such medical device use required by US FDA (Food and Drug Administration) regulation or any other statute. SPI Supplies and Structure Probe, Inc. make no representation, promise, express warranty or implied warranty concerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues of fluids.

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