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Manufacturer's CAGE: 1P573



# Material Safety Data Sheet

**SPI #05141-AB Brayco® 1624 Perfluoropolyether Lubricant**

## Section 01: Identification

Date Effective..... January 16, 2006  
(most recent revision)

Chemical Name/Synonyms... not available

### Emergencies

Use Only #'s.....

Contacting CHEMTREC 24 Hour Emergency

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 #05141-AB

Brayco® 1624 Perfluoropolyether Lubricant



<b>Hazardous Material Information System USA</b>	Health	3	<b>National Fire Protection Association USA</b>	
	Fire Hazard	1		
	Reactivity	0		
	Personal Protection			

\*\*\*\*\*Emergency Overview\*\*\*\*\*

### NFPA Rating:

(estimated) Health: 3 ; Flammability: 1 ; Reactivity: 0

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## Section 2: Composition

Component Name	CAS #	Percent	EINECS/ELINCS
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Not known.

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### Section 3: Hazard Identification

**Emergency overview:** Caution! May cause respiratory tract, eye and skin irritation. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. Do not ingest.

**Appearance:** Clear. Colorless. Liquid.

**Flash Point:** Not available

**Target Organs:** Not available

**Potential Health Effects:**

**Eye:** Moderately irritating to the eyes.

**Skin:** Moderately irritating to the skin.

**Ingestion:** Ingestion may cause gastrointestinal irritation and diarrhea.

**Inhalation:** Moderately irritating to the respiratory system.

**Chronic:**

**Carcinogenic Effects:** No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH or IARC.

**Mutagenic Effects:** No component of this product at levels greater than 0.1% is classified by regulatory criteria as a mutagen.

**Teratogenic Effects:** No component of this product at levels greater than 0.1% is classified by established regulatory criteria as teratogenic or embryotoxic.

**Medical Conditions Aggravated by Overexposure:** Repeated or prolonged exposure is not known to aggravate medical condition.

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### Section 4: First Aid Measures

**Eyes:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention.

**Skin:** In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. 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. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing, such as collar, tie, belt, waistband.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Notes to Physician: Not available.

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## Section 5: Fire Fighting Measures

**General Information:** May be combustible at high temperature. Products of combustion are carbon monoxide, carbon dioxide, and hydrogen fluoride. Non-explosive in presence of open flames, sparks and static discharge, or shocks.

**Extinguishing Media:**

Small Fire: Use DRY chemical powder.

Large Fire: Use water spray, fog or foam. Do not use water jet.

Cool closed containers exposed to fire with water.

Use and approved/certified respirator or equivalent.

**Special Remarks:** A NFPA health hazard rating of "3" is assigned due to toxicity of thermal decomposition products and fluorine (HF); otherwise, the material itself warrants a health hazard rating of "1".

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## Section 6: Accidental Release Measures

**General Information:** Absorb with an inert material and put the spilled material in an appropriate waste disposal container.

**Spills/Leaks:** Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Do not allow to enter drains or watercourses.

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## Section 7: Handling and Storage

**Handling:** Avoid contact with eyes, skin and clothing. Avoid breathing vapors or spray mists. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. Do not ingest.

**Storage:** Store in cool, well-ventilated area. Keep tightly closed and sealed until ready to use. Avoid contact with strong oxidizers, excessive heat, sparks or open flame. Empty containers may contain harmful, flammable/combustible or explosive residue or vapors. Do not cut, grind, drill, weld reuse or dispose of containers unless adequate precautions are taken against these hazards.



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## Section 8: Exposure Controls and Personal Protection

**Engineering Controls:** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are available to the work area. Provide exhaust ventilation if temperature is expected to exceed 260 degrees C.

### Exposure Limits:

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
No hazardous ingredients.			

### Personal Protective Equipment

Eyes: Use safety glasses with side shield or chemical safety goggles.

Skin: Use impervious gloves.

Clothing: Use synthetic apron. Wear protective clothing to prevent skin contact.

Respirators: Respiratory protection is not required for the use of this product. Wear appropriate respirator when ventilation is inadequate.

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## Section 9: Physical and Chemical Properties

**Physical State:** Liquid

**Appearance:** Clear, Colorless

**Odor:** Mild

**pH:** Not available

**Vapor Pressure:** Not available

**Vapor Density:** Not available

**Evaporation Rate:** Not available

**Viscosity:** 22.0-28.0 cSt @40° C

**Boiling Point:** >260° C (500° F)

**Freezing/Melting Point:** Not available

**Autoignition Temperature:** Not available

**Flash Point:** Not available

**Decomposition Temperature:** Not available

**Explosion Limits, Lower:** Not available

**Upper:** Not available

**Solubility in water:** Insoluble in cold water

**Specific Gravity/Density:** 1.8 to 2 (Water = 1)

**Molecular Formula:** Not available

**Molecular Weight:** Not available

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## Section 10: Stability and Reactivity

**Chemical Stability:** This product is stable.

**Conditions to Avoid:** Not known.

**Incompatibility with Other Materials:** Reactive with oxidizing agents, metals, acids, alkalis.

**Hazardous Decomposition of Products:** Carbon monoxide, Carbon dioxide, Hydrogen Fluoride

**Hazardous Polymerization:** Will not occur.

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## Section 11: Toxicological Information

**RTECS#:** Not available.

**CAS#:** Not available.

**LD50/LC50 Information:** Not available.

**CAS #:**

**Carcinogenic Effects:** No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH or IARC.

**Mutagenic Effects:** No component of this product at levels greater than 0.1% is classified by regulatory criteria as a mutagen.

**Teratogenic Effects:** No component of this product at levels greater than 0.1% is classified by established regulatory criteria as teratogenic or embryo-toxic.

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## Section 12: Ecological Information

**Exotoxicity:** Not available.

**Environmental Fate:** Not available.

**Aquatic:** Not available.

**Atmospheric:** Not available.

**Physical:** Not available.

**Products of Degradation:** Carbon monoxide, Carbon dioxide, Hydrogen Fluoride.

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## Section 13: Disposal Considerations

**RCRA Waste Code:** USED OIL

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities.

**Large Spills:** Wear appropriate protective clothing. Stop source of leak if possible. Dike, contain spill and recover free liquid. Prevent entry into waterways. Soak up residue with an inert absorbent material such as clay or sand. Store and dispose of properly. Flush area with water.

**Small Spills:** Neutralize and or soak up spill with inert absorbent. Store in a closed container for disposal. All recovered material should be packaged, transported and dispose of in accordance with local, state and federal regulations. Do not burn materials contaminated with this product.

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## Section 14: Transport Information

**US DOT Hazard Class:** Not regulated.

**ADR/RID Classification:** Not determined.

**IMO/IMDG Classification:** Not determined.

**IATA (for international shipments):** Not determined.

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## Section 15: Regulatory Information

United States:

TSCA 8(b) Inventory: All components of this product are listed on, or meet the exemption requirements of, the applicable inventory list.

SARA:

Section 302 (RQ): Not found.

Section 302 (TPQ): Not found.

SARA Codes

Section 311/312: MSDS distribution - chemical inventory - hazard identification:  
BRAYCO 1624: Immediate health hazard.

Section 313: No products found.

Clean Air Act: No products found.

Clean Water Act: No products found.

OSHA, IARC, NTP: No component known to be present in this product at >0.1% is presently listed as a carcinogen.

TSCA Inventory: This product is a mixture and is NOT listed in the TSCA Inventory. The individual ingredients in the product are listed in the TSCA Inventory.

State (Individual states in the USA): No products found.

California No Significant Risk Level: No products found.

California Prop. 65: No products found.

CEPA DSL: All components of this product are listed on, or meet the exemption requirements of, the applicable inventory list.

AUSTRALIA (NICNAS): One or more of the materials contained in this product may not appear on the applicable inventory list. Please consult the manufacturer (Castrol: 630-241-4000) for additional information.

KOREA (TCCL):

One or more of the materials contained in this product may not appear on the applicable inventory list. Please consult the manufacturer (Castrol: 630-241-4000) for additional information.

PHILIPPINES (RA6969):

One or more of the materials contained in this product may not appear on the applicable inventory list. Please consult the manufacturer (Castrol: 630-241-4000) for additional information.

MITI:

One or more of the materials contained in this product may not appear on the applicable inventory list. Please consult the manufacturer (Castrol: 630-241-4000) for additional information.

EINECS:

One or more of the materials contained in this product may not appear on the applicable inventory list. Please consult the manufacturer (Castrol: 630-241-4000) for additional information.

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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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