

Material Safety Data Sheet

SPI #'s 05159-AB, 05159-XQ, 05159T-AB
Castrol® Braycote® 806 High Vacuum Grease

SPI Supplies Division P.O. Box 656 West Chester, PA 19381-0656 USA
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Section 1: Identification

Date Effective..... February 8, 2006
(most recent revision)

Chemical Name/Synonyms... Braycote 806 High Vacuum Grease
Chemical Family: Perfluorinated grease

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

2. Composition/information on ingredients

This product does not contain any hazardous ingredients at or above regulated thresholds.

3. Hazards identification

Physical state Grease

Color White Grease.

Emergency overview

CAUTION!

MAY CAUSE EYE IRRITATION.
MAY CAUSE SKIN IRRITATION.
MAY CAUSE RESPIRATORY TRACT IRRITATION.

Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation. Inhalation of decomposition products (occurs if heated > 260 C) or of smoke from contaminated tobacco products may cause respiratory irritation and induce Polymer Fume Fever condition. Symptoms of exposure to decomposition products are: lung irritation, pulmonary edema, flu-like symptoms (example - fever chills).

Routes of entry

Dermal contact. Eye contact. Inhalation. Ingestion.

Potential Health Effects

Eyes	May cause eye irritation.
Skin	May cause skin irritation.
Inhalation	May cause respiratory tract irritation.
Ingestion	No significant health hazards identified.

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Medical conditions aggravated by overexposure None identified.

See toxicological information (section 11)

4. First aid measures

Eye Contact In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops.

Skin Contact Immediately wash exposed skin with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. Decomposition products thermal decomposition may release hazardous gases.

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.

5. Fire-fighting measures

Flammability of the product May be combustible at high temperature.

Products of combustion These products are carbon oxides (CO, CO₂), halogenated compounds, hydrogen fluoride.

Unusual fire/explosion hazards This material is not explosive as defined by established regulatory criteria.

Non-explosive in presence of open flames, sparks and static discharge, of shocks, of heat.

Fire fighting media and instructions In case of fire, use water spray (fog), foam or dry chemicals.

Protective clothing (fire) Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

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

6. Accidental release measures

Personal Precautions Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (See Section: "Exposure controls/personal protection"). Follow all fire fighting procedures (See Section: "Fire-fighting measures").

Environmental precautions and clean-up methods If emergency personnel are unavailable vacuum or carefully scoop up spilled materials and place in an appropriate container for disposal. Avoid creating dusty conditions and prevent wind dispersal. Minimize contact of spilled material with soils to prevent runoff to surface waterways. See Section 13 for Waste Disposal Information.

Personal protection in case of a large spill Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

7. Handling and storage

Handling	Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Use only with adequate ventilation. Do not ingest. Decomposition products thermal decomposition may release hazardous gases.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. 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.

8. Exposure controls/personal protection

Occupational exposure limits

This product does not have any assigned OELs.

Control Measures Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Decomposition products thermal decomposition may release hazardous gases. Hydrogen Fluoride (HF) If heated and ventilation is inadequate, use a NIOSH certified respirator with an organic vapor cartridge and N95 particulate filter.

Hygiene measures Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.

Personal protection

Eyes	Avoid contact with eyes. Safety glasses with side shields or chemical goggles.
Skin and Body	Avoid prolonged or repeated contact with skin. Wear suitable protective clothing.
Respiratory	Use only with adequate ventilation.
Hands	Wear suitable gloves. Not available.



Consult local authorities for acceptable exposure limits.

9. Physical and chemical properties

Physical state	Grease
Odor	Odorless.
Color	White Grease.
Boiling point / Range	>260 °C
Specific Gravity	1.8 to 2
Solubility	insoluble in water.

10. Stability and reactivity

Stability and Reactivity	The product is stable.
Conditions to avoid	Avoid excessive heat.
Incompatibility with various substances	Reactive with oxidizing agents, metals, acids, alkalis.
Hazardous Decomposition Products	These products are halogenated compounds, hydrogen fluoride.
Hazardous polymerization	Will not occur.

11. Toxicological information

Chronic toxicity

Carcinogenic effects	No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH or the International Agency for Research on Cancer (IARC). No component of this product present at levels greater than 0.1% is identified as a carcinogen by the U.S. National Toxicology Program (NTP) or the U.S. Occupational Safety and Health Act (OSHA).
Mutagenic effects	No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a mutagen.
Reproductive effects	No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a reproductive toxin.
Teratogenic effects	No component of this product at levels greater than 0.1% is classified by established regulatory criteria as teratogenic or embryotoxic.

Other chronic toxicity data

Inhalation of decomposition products (occurs if heated > 260 C) or of smoke from contaminated tobacco products may cause respiratory irritation and induce Polymer Fume Fever condition. Symptoms of exposure to decomposition products are: lung irritation, pulmonary edema, flu-like symptoms (example - fever chills).

12. Ecological information

Ecotoxicity No testing has been performed by the manufacturer.

13. Disposal considerations

Waste information Waste must be disposed of in accordance with federal state and local environmental control regulations.

Consult your local or regional authorities.

14. Transport information

Not classified as hazardous for transport (DOT, TDG, UN , IMO, IATA/ICAO).

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15. Regulatory information

U.S. Federal regulations US INVENTORY (TSCA): In compliance.

This product is not regulated under Section 302 of SARA and 40 CFR Part 355.

SARA 313

Form R - Reporting requirements

This product does not contain any hazardous ingredients at or above regulated thresholds.

Supplier notification

This product does not contain any hazardous ingredients at or above regulated thresholds.

CERCLA Sections 102a/103 Hazardous Substances (40 CFR Part 302.4):: This material is not regulated under CERCLA Sections 103 and 107.

State regulations

Pennsylvania RTK:Fluorochemical derivative. (generic environmental hazard)

WARNING: This product contains a chemical known to the State of California to cause cancer. Tetrafluoroethylene, inhibited

Inventories

AUSTRALIAN INVENTORY (AICS): In compliance.

CANADA INVENTORY (DSL): In compliance.

CHINA INVENTORY (IECS): In compliance.

EC INVENTORY (EINECS/ELINCS): In compliance.

JAPAN INVENTORY (ENCS): In compliance.

KOREA INVENTORY (ECL): In compliance.

PHILIPPINE INVENTORY (PICCS): In compliance.

16. Other information

Label Requirements

CAUTION!

MAY CAUSE EYE IRRITATION.

MAY CAUSE SKIN IRRITATION.

MAY CAUSE RESPIRATORY TRACT IRRITATION.

HMIS® Rating :

Health 1

Flammability 1

Physical Hazard 1

Personal protection B

National Fire Protection Association (U.S.A.)



Other special considerations

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

History

Date of issue

12/02/2004.

Date of previous issue

No Previous.Validation.

Prepared by

Product Stewardship

Notice to reader

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All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from us.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken.

This Material Safety Data Sheet conforms to the requirements of ANSI Z400.1.

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