



Material Safety Data Sheet

Product No. 891-17, 891-18, 891-19 Braycote (Micronic) 803 Vacuum Grease

Issue Date (06-01-05)

Review Date (04-12-12)

Section 1: Product and Company Identification

Product Name: Braycote 803 (Micronic) Vacuum Grease

Manufacture: Castrol Industrial North America, Inc. Naperville, IL 60563

Synonym: None

Product Use: Lubricant

Company Name

Ted Pella, Inc., P.O. Box 492477, Redding, CA 96049-2477

Domestic Phone (800) 237-3526 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)

International Phone (01) (530) 243-2200 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)

Chemtrec Emergency Number 1-800-424-9300 24 hrs a day.

Section 2: Composition / Information on Ingredients

Principle Hazardous Component(s) (chemical and common name(s)) (Cas. No)	%	OSHA PEL mg/m3	ACGIH TLV mg/m3	NTP	IARC	OSHA regulated
None*	NA	NA	NA	NA	NA	NA

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

Section 3: Hazard Identification

Emergency overview

Appearance: Solid white grease.

Immediate effects: May cause irritation.

Potential health effects

Primary Routes of entry: Dermal contact, eye contact and inhalation.

Signs and Symptoms of Overexposure: 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).

Eyes: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: May cause gastrointestinal irritation and diarrhea.

Inhalation: May cause respiratory tract irritation.

Chronic Exposure: ND

Chemical Listed As Carcinogen Or Potential Carcinogen: 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), U.S. National Toxicology Program (NTP) or the U.S. Occupational Safety and Health Act (OSHA).

See Toxicological Information (Section 11)

Potential environmental effects

See Ecological Information (Section 12)

Section 4: First Aid Measures

If accidental overexposure is suspected

Eye(s) 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. Get medical attention if irritation develops. Wash clothing and thoroughly clean shoes before reuse.

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

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

Note to physician

Treatment: ND

Medical Conditions generally Aggravated by Exposure: None identified.

Section 5: Fire Fighting Measures

Flash Point: ND

Flammable Limits: ND

Auto-ignition point: ND

Fire Extinguishing Media: Use water spray (fog), foam or dry chemicals.

Special Fire Fighting Procedures: Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Unusual Fire and Explosion Hazards: Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts and oxidizing materials. 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).

Hazardous combustion products: Carbon oxides (CO, CO₂), halogenated compounds, hydrogen fluoride.

DOT Class: Not regulated

Section 6: Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled: Immediately contact emergency personnel. If emergency personnel are unavailable, contain spilled material.

Small spills: Add absorbent (soil may be used in the absence of other suitable materials)

scoop up material and place in a sealed, liquid-proof container for disposal. Large spills: Dike spilled material or otherwise contains material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Avoid contact of spilled material with soil and prevent runoff entering surface waterways. Use suitable protective equipment (Section 8).

Waste Disposal Methods: Dispose of waste according to Federal, State and Local Regulations.

Section 7: Handling and Storage

Precautions to be Taken in Handling and Storage: Avoid contact with skin, eyes and clothing. Use only with adequate ventilation. Decomposes and releases toxic gases when exposed to high temperature or when burning. 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.

Storage Temperature: ND

Storage Pressure: ND

Section 8: Exposure Controls / Personal Protection

Engineering Controls

Ventilation required: Good general ventilation should be sufficient to control airborne levels.

Personal Protection Equipment

Respiratory protection: Use only with adequate ventilation.

Protective gloves: Wear suitable gloves.

Skin protection: Wear suitable protective clothing.

Eye protection: Safety glasses with side shields or chemical goggles.

Additional clothing and/or equipment: ND

Exposure Guidelines

See Composition/Information on Ingredients (Section2)

Section 9 Physical and Chemical Properties

Appearance and Physical State: Solid white grease

Odor (threshold): Odorless

Specific Gravity (H₂O=1): 1.8 to 2

Vapor Pressure (mm Hg): ND

Vapor Density (air=1): ND

Percent Volatile by volume: ND

Evaporation Rate (butyl acetate=1): ND

Boiling Point: ND

Freezing point / melting point: ND

pH: ND

Solubility in Water: Insoluble

Molecular Weight: ND

Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: Decomposes on heating to high temperature.

Materials to Avoid (Incompatibility): Oxidizing materials.

Hazardous Decomposition Products: This products is a halogenated compound; hydrogen fluoride.

Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

Results of component toxicity test performed: 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 a reproductive toxin.

Human experience: ND

This product **does not** contain any compounds listed by NTP or IARC or regulated by OSHA as a carcinogen.

Section 12: Ecological Information

Ecological Information: No testing has been performed by the manufacturer.

Chemical Fate Information: No testing has been performed by the manufacturer.

Section 13 Disposal Considerations

RCRA 40 CFR 261 Classification: Avoid contact of spilled material and runoff with soil and surface waterways. Consult an environmental professional to determine if local, regional or national regulations would classify spilled or contaminated materials as hazardous waste. Use only approved transporters, recyclers, treatment, storage or disposal facilities.

Federal, State and local laws governing disposal of materials can differ. Ensure proper disposal compliance with proper authorities before disposal.

Section 14: Transportation Information

US DOT Information: Proper shipping name: Not regulated

IATA: Proper shipping name: Not regulated

IMO: Proper shipping name: Not regulated

Marine Pollutant: No

Canadian TDG: Not regulated

Section 15: Regulatory Information**United States Federal Regulations**

MSDS complies with OSHA's Hazard Communication Rule 29, CFR 1910.1200.

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

SARA Title III: Chemical listed under SARA 311/312: Hazard identification: Immediate (Acute) Health Hazard. SARA 313: This product does not contain any hazardous ingredients at or above regulated thresholds.

RCRA: ND

TSCA: This product is in compliance with the US Inventory (TSCA).

CERCLA: This material is not regulated under CERCLA Sections 103 and 107.

State Regulations

California Proposition 65: WARNING: This product contains a chemical known to the State of California to cause cancer. Tetrafluoroethylene, inhibited.

Pennsylvania RTK: Polytetrafluoroethylene (generic environmental hazard)

International Regulations

Canada WHMIS: Canada Inventory (DSL): Not listed.

Europe EINECS Numbers: ND

Australian Inventory (AICS): Not listed

China Inventory (IECS): In compliance

EC Inventory (EINECS/ELINCS): In compliance

Japan Inventory (ENCS): In compliance

Korea Inventory (ECL): Not listed

Philippine Inventory (PICCS): In compliance

Section 16: Other Information

Label Information: ND

European Risk and Safety Phrases: ND

European symbols needed: ND

Canadian WHMIS Symbols: ND

HMIS Hazard Rating: Health: **1**; Fire: **1**; Reactivity: **NE**; Physical Hazard: **0**

NFPA Hazard Rating: Health: **3****; Fire: **1**; Reactivity: **0**

** 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".

(0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

Abbreviations used in this document

NE= Not established

NA= Not applicable

NIF= No Information Found

ND= No Data

Disclaimer

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