



## 1. Chemical product and company identification

<b>Product name</b>	BRAYCOTE 601 EF
<b>MSDS#</b>	25012-AM
<b>Code</b>	25012-AM
<b>Product use</b>	Lubricant
<b>Manufacturer</b>	Castrol Industrial North America, Inc. 150 W. Warrenville Road Naperville, IL 60563
<b>Supplier</b>	Castrol Industrial North America, Inc. 150 W. Warrenville Road Naperville, IL 60563 Product Information: 1-800-621-2661
<b>EMERGENCY SPILL INFORMATION:</b>	1 (800) 424-9300 CHEMTREC (USA)

## 2. Composition/information on ingredients

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

## 3. Hazards identification

<b>Physical state</b>	Grease
<b>Color</b>	Beige. Grease (Light.)
<b>Emergency overview</b>	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).
<b>Routes of entry</b>	Dermal contact. Eye contact. Inhalation. Ingestion.
<b>Potential Health Effects</b>	
<b>Eyes</b>	May cause eye irritation.
<b>Skin</b>	May cause skin irritation.
<b>Inhalation</b>	May cause respiratory tract irritation.
<b>Ingestion</b>	Ingestion may cause gastrointestinal irritation and diarrhea.

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	Build 3.0.1	<b>Language ENGLISH</b> ( ENGLISH )

**Medical conditions aggravated by overexposure**

None identified.

[See toxicological Information \(section 11\)](#)

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## 4. First aid measures

<b>Eye Contact</b>	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops.
<b>Skin Contact</b>	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.
<b>Inhalation</b>	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.
<b>Ingestion</b>	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.

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## 5. Fire-fighting measures

<b>Flammability of the product</b>	May be combustible at high temperature.
<b>Products of combustion</b>	These products are carbon oxides (CO, CO <sub>2</sub> ), halogenated compounds, hydrogen fluoride.
<b>Unusual fire/explosion hazards</b>	This material is not explosive as defined by established regulatory criteria.  Non-explosive in presence of open flames, sparks and static discharge, of heat.
<b>Fire fighting media and instructions</b>	In case of fire, use water spray (fog), foam or dry chemicals.
<b>Protective clothing (fire)</b>	Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
<b>Special remarks on fire hazards</b>	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".

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## 6. Accidental release measures

<b>Personal Precautions</b>	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").
<b>Environmental precautions and clean-up methods</b>	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.
<b>Personal protection in case of a large spill</b>	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

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## 7. Handling and storage

<b>Handling</b>	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.
<b>Storage</b>	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.

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## 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

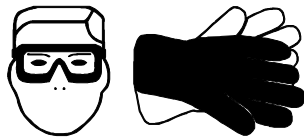
**Eyes** Avoid contact with eyes. Safety glasses with side shields or chemical goggles.

**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.](#)

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## 9. Physical and chemical properties

<b>Physical state</b>	Grease
<b>Odor</b>	Odorless.
<b>Color</b>	Beige. Grease (Light.)
<b>Specific Gravity</b>	1.8 to 1.9
<b>Density</b>	1850 kg/m <sup>3</sup> (1.85 g/cm <sup>3</sup> ) at 25°C
<b>Solubility</b>	Insoluble in cold water.
<b>Viscosity</b>	Kinematic: 110 to 170 mm <sup>2</sup> /s (110 to 170 cSt) at 40°C

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## 10. Stability and reactivity

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

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## 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).

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## 12. Ecological information

**Ecotoxicity** No testing has been performed by the manufacturer.

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## 13. Disposal considerations

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

**Remarks** Scrape up excess grease and store in closed containers until disposal. Clean up area with appropriate cleaner. Store in metal container until disposal. All recovered material should be packaged, transported and disposed of (or reclaimed) using good engineering practices. Disposal method must be in compliance with Local, State & Federal Regulations regarding health, air & water pollution. DO NOT BURN MATERIALS CONTAMINATED WITH THIS PRODUCT.

**Consult your local or regional authorities.**

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## 14. Transport information

### International transport regulations

Regulatory Information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	Not regulated.	Not available.	----	----		----
TDG Classification	Not regulated.	Not available.	----	----		----
IMDG Classification	Not available.	Not available.	Not available.	----		----
IATA Classification	Not regulated.	Not available.	----	----		----

## 15. Regulatory information

### U.S. Federal regulations

US INVENTORY (TSCA): In compliance.

TSCA 5(a)2 final significant new use rule (SNUR):: Sodium nitrate

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):: Sodium nitrate: 100 lbs. (45.36 kg);

### State regulations

Massachusetts RTK:Sodium nitrate

New Jersey:Sodium nitrate

Pennsylvania RTK:Fluorochemical derivative. (generic environmental hazard); Sodium nitrate (environmental hazard, generic environmental hazard)

**WARNING:** This product contains a chemical known to the State of California to cause cancer. silica, crystalline - quartz

### Inventories

AUSTRALIAN INVENTORY (AICS): In compliance.

CANADA INVENTORY (DSL): Not listed.

CHINA INVENTORY (IECS): Not determined.

EC INVENTORY (EINECS/ELINCS): In compliance.

JAPAN INVENTORY (ENCS): Not determined.

KOREA INVENTORY (ECL): Not determined.

PHILIPPINE INVENTORY (PICCS): In compliance.

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## 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** 0  
**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

11/11/2004.

#### Date of previous issue

11/11/2004.

#### Prepared by

Product Stewardship

### Notice to reader

*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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