

## Section 1. Identification

**Product name** Braycote Micronic 601 EF  
**SDS #** 461640  
**Historic SDS #:** 25032  
**Code** 461640-US03

### Relevant identified uses of the substance or mixture and uses advised against

**Product use** Grease for industrial applications.  
 For specific application advice see appropriate Technical Data Sheet or consult our company representative.

**Supplier** BP Lubricants USA Inc.  
 1500 Valley Road  
 Wayne, NJ 07470  
 Telephone: +1-888-CASTROL  
 Product Information: +1-877-641-1600

**EMERGENCY HEALTH INFORMATION:** +1-800-447-8735

**EMERGENCY SPILL INFORMATION:** +1-800-424-9300 (CHEMTREC USA)  
 +1-703-527-3887 (CHEMTREC outside the US)

## Section 2. Hazards identification

**OSHA/HCS status** This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** Not classified.

### GHS label elements

**Signal word** No signal word.

**Hazard statements** No known significant effects or critical hazards.

### Precautionary statements

**Prevention** Not applicable.

**Response** Not applicable.

**Storage** Not applicable.

**Disposal** Not applicable.

**Hazards not otherwise classified**  None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** Mixture  
 Fluorochemical derivative. Thickening agent.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

|                                   |   |
|-----------------------------------|---|
| <b>Eye contact</b>                | In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention if symptoms occur. |
| <b>Skin contact</b>               | Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.                         |
| <b>Inhalation</b>                 | If inhaled, remove to fresh air. Get medical attention if symptoms occur.   |
| <b>Ingestion</b>                  | Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.  |
| <b>Protection of first-aiders</b> | No action shall be taken involving any personal risk or without suitable training.  |

### Most important symptoms/effects, acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

### Indication of immediate medical attention and special treatment needed, if necessary

|                            |  |
|----------------------------|--|
| <b>Notes to physician</b>  | Treatment should in general be symptomatic and directed to relieving any effects.<br><br>Note: High Pressure Applications<br>Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. Injuries may not appear serious at first but within a few hours tissue becomes swollen, discolored and extremely painful with extensive subcutaneous necrosis.<br>Surgical exploration should be undertaken without delay. Thorough and extensive debridement of the wound and underlying tissue is necessary to minimize tissue loss and prevent or limit permanent damage. Note that high pressure may force the product considerable distances along tissue planes. |
| <b>Specific treatments</b> | No specific treatment.   |

## Section 5. Fire-fighting measures

### Extinguishing media

|                                       |   |
|---------------------------------------|---|
| <b>Suitable extinguishing media</b>   | In case of fire, use water fog, alcohol resistant foam, dry chemical or carbon dioxide extinguisher or spray. |
| <b>Unsuitable extinguishing media</b> | Do not use water jet.   |

### Specific hazards arising from the chemical

|                                      |  |
|--------------------------------------|--|
| <b>Hazardous combustion products</b> | No specific fire or explosion hazard.<br><br>Combustion products may include the following:<br>halogenated compounds<br>carbon oxides (CO, CO <sub>2</sub> ) (carbon monoxide, carbon dioxide) |
|--------------------------------------|--|

### Special protective actions for fire-fighters

No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

### Special protective equipment for fire-fighters

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

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

|                                    |  |
|------------------------------------|--|
| <b>For non-emergency personnel</b> | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling. |
| <b>For emergency responders</b>    | If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".  |

## Section 6. Accidental release measures

**Environmental precautions** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

**Small spill** Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

**Large spill** Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. If emergency personnel are unavailable, contain spilled material. Suction or scoop the spill into appropriate disposal or recycling vessels, then cover spill area with oil absorbent. Dispose of via a licensed waste disposal contractor.

## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** Put on appropriate personal protective equipment (see Section 8).

**Advice on general occupational hygiene** Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage, including any incompatibilities** Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep away from heat and direct sunlight. Keep container tightly closed and sealed until ready for use. Store and use only in equipment/containers designed for use with this product. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Avoid excessive heat.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

This product does not have any assigned OELs.

**Appropriate engineering controls** All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained. Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards.

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.

The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

**Environmental exposure controls** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

## Section 8. Exposure controls/personal protection

|                               |  |
|-------------------------------|--|
| <b>Hygiene measures</b>       | Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.  |
| <b>Eye/face protection</b>    | Safety glasses with side shields.  |
| <b>Skin protection</b>        |  |
| <b>Hand protection</b>        | Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. Recommended: Butyl gloves. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.   |
| <b>Body protection</b>        | Use of protective clothing is good industrial practice. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.  |
| <b>Other skin protection</b>  | Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.  |
| <b>Respiratory protection</b> | In case of insufficient ventilation, wear suitable respiratory equipment. For protection against metal working fluids, respiratory protection that is classified as "resistant to oil" (class R) or oil proof (class P) should be selected where appropriate. Depending on the level of airborne contaminants, an air-purifying, half-mask respirator (with HEPA filter) including disposable (P- or R-series) (for oil mists less than 50mg/m <sup>3</sup> ), or any powered, air-purifying respirator equipped with hood or helmet and HEPA filter (for oil mists less than 125 mg/m <sup>3</sup> ). Where organic vapours are a potential hazard during metalworking operations, a combination particulate and organic vapour filter may be necessary. The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions. |

## Section 9. Physical and chemical properties

|   |                                 |
|---|---------------------------------|
| <b>Appearance</b>                                   |                                 |
| <b>Physical state</b>                               | Grease                          |
| <b>Color</b>  | Beige. [Light]                  |
| <b>Odor</b>   | Not available.                  |
| <b>Odor threshold</b>                               | Not available.                  |
| <b>pH</b>   | Not applicable.                 |
| <b>Melting point</b>                                | Not available.                  |
| <b>Boiling point</b>                                | Not available.                  |
| <b>Flash point</b>                                  | Not available.                  |
| <b>Evaporation rate</b>                             | Not considered to be flammable. |
| <b>Flammability (solid, gas)</b>                    | Not available.                  |
| <b>Lower and upper explosive (flammable) limits</b> | Not available.                  |
| <b>Vapor pressure</b>                               | Not available.                  |

## Section 9. Physical and chemical properties

|  |   |
|--|---|
| Vapor density                          | Not available.  |
| Density                                | >1000 kg/m <sup>3</sup> (>1 g/cm <sup>3</sup> ) at 15.6°C |
| Solubility                             | insoluble in water.                                       |
| Partition coefficient: n-octanol/water | Not available.  |
| Auto-ignition temperature              | Not available.  |
| Decomposition temperature              | Not available.  |
| Viscosity                              | Not available.  |

## Section 10. Stability and reactivity

|                                    |   |
|------------------------------------|---|
| Reactivity                         | No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.                                   |
| Chemical stability                 | The product is stable.  |
| Possibility of hazardous reactions | Under normal conditions of storage and use, hazardous reactions will not occur.<br>Under normal conditions of storage and use, hazardous polymerization will not occur. |
| Conditions to avoid                | Avoid excessive heat.   |
| Incompatible materials             | Active metals, metal oxides at temperatures > 280 C, Lewis acid catalysts, strong or non-aqueous alkali.  |
| Hazardous decomposition products   | When conditions to avoid and/or incompatible materials are met, the following decomposition products may occur: carbonyl difluoride, hydrogen fluoride (HF)             |

## Section 11. Toxicological information

### Information on toxicological effects

|  |   |
|--|---|
| Information on the likely routes of exposure | Routes of entry anticipated: Dermal, Inhalation.  |
| <u>Potential acute health effects</u>        |   |
| Eye contact                                  | No known significant effects or critical hazards. |
| Skin contact                                 | No known significant effects or critical hazards. |
| Inhalation                                   | No known significant effects or critical hazards. |
| Ingestion                                    | No known significant effects or critical hazards. |

### Symptoms related to the physical, chemical and toxicological characteristics

|              |                   |
|--------------|-------------------|
| Eye contact  | No specific data. |
| Skin contact | No specific data. |
| Inhalation   | No specific data. |
| Ingestion    | No specific data. |

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

|                             |                |
|-----------------------------|----------------|
| Potential immediate effects | Not available. |
| Potential delayed effects   | Not available. |

#### Long term exposure

|                             |                |
|-----------------------------|----------------|
| Potential immediate effects | Not available. |
| Potential delayed effects   | Not available. |

## Section 11. Toxicological information

### Potential chronic health effects

|                              |   |
|------------------------------|---|
| <b>General</b>               | No known significant effects or critical hazards. |
| <b>Carcinogenicity</b>       | No known significant effects or critical hazards. |
| <b>Mutagenicity</b>          | No known significant effects or critical hazards. |
| <b>Teratogenicity</b>        | No known significant effects or critical hazards. |
| <b>Developmental effects</b> | No known significant effects or critical hazards. |
| <b>Fertility effects</b>     | No known significant effects or critical hazards. |

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

### Additional information

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).

## Section 12. Ecological information

### Toxicity

No testing has been performed by the manufacturer.

### Persistence and degradability

Not expected to be rapidly degradable.

### Bioaccumulative potential

Not available.

### Mobility in soil

|  |   |
|--|---|
| <b>Soil/water partition coefficient (K<sub>oc</sub>)</b> | Not available.                            |
| <b>Mobility</b>  | Non-volatile. Grease. insoluble in water. |

### Other adverse effects

No known significant effects or critical hazards.

## Section 13. Disposal considerations

### Disposal methods

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

|                            | DOT Classification  | TDG Classification | IMDG           | IATA           |
|----------------------------|---|--------------------|----------------|----------------|
| UN number                  | Not regulated.  | Not regulated.     | Not regulated. | Not regulated. |
| UN proper shipping name    | -   | -                  | -              | -              |
| Transport hazard class(es) | -   | -                  | -              | -              |
| Packing group              | -   | -                  | -              | -              |
| Environmental hazards      | No.   | No.                | No.            | No.            |
| Additional information     | Sodium nitrite<br><b>Reportable quantity</b><br>12903.2 lbs / 5858.1 kg. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements. | -                  | -              | -              |

**Special precautions for user** Not available.

**Transport in bulk according to IMO instruments** Not available.

## Section 15. Regulatory information

### U.S. Federal regulations

**United States inventory (TSCA 8b)** All components are active or exempted.

**TSCA 5(a)2 final significant new use rules:** Perfluorooctanoic acid; sodium nitrite

### SARA 302/304

#### Composition/information on ingredients

No products were found.

### SARA 311/312

**Classification** Not applicable.

### 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.

### State regulations

**Massachusetts** None of the components are listed.

**New Jersey** None of the components are listed.

**Pennsylvania** The following components are listed: ETHENE, TETRAFLUORO-, HOMOPOLYMER

**California Prop. 65**

## Section 15. Regulatory information

**⚠️ WARNING:** This product can expose you to chemicals including Silica, crystalline, which is known to the State of California to cause cancer, and Perfluorooctanoic acid, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### Other regulations

|   |   |
|---|---|
| <a href="#">Australia inventory (AICS)</a>                  | All components are listed or exempted.  |
| <a href="#">Canada inventory</a>                            | At least one component is not listed in DSL but all such components are listed in NDSL.               |
| <a href="#">China inventory (IECSC)</a>                     | All components are listed or exempted.  |
| <a href="#">Japan inventory (ENCS)</a>                      | All components are listed or exempted.  |
| <a href="#">Korea inventory (KECI)</a>                      | All components are listed or exempted.  |
| <a href="#">Philippines inventory (PICCS)</a>               | All components are listed or exempted.  |
| <a href="#">Taiwan Chemical Substances Inventory (TCSI)</a> | All components are listed or exempted.  |
| <a href="#">REACH Status</a>                                | For the REACH status of this product please consult your company contact, as identified in Section 1. |

## Section 16. Other information

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



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".

### History

|  |   |
|--|---|
| <a href="#">Date of issue/Date of revision</a> | 01/15/2021.   |
| <a href="#">Date of previous issue</a>         | 11/29/2019.   |
| <a href="#">Prepared by</a>                    | Product Stewardship   |
| <a href="#">Key to abbreviations</a>           | ACGIH = American Conference of Industrial Hygienists<br>ATE = Acute Toxicity Estimate<br>BCF = Bioconcentration Factor<br>CAS Number = Chemical Abstracts Service Registry Number<br>GHS = Globally Harmonized System of Classification and Labelling of Chemicals<br>IATA = International Air Transport Association<br>IBC = Intermediate Bulk Container<br>IMDG = International Maritime Dangerous Goods<br>LogPow = logarithm of the octanol/water partition coefficient<br>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)<br>OEL = Occupational Exposure Limit<br>SDS = Safety Data Sheet<br>STEL = Short term exposure limit<br>TWA = Time weighted average<br>UN = United Nations<br>UN Number = United Nations Number, a four digit number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods.<br>Varies = may contain one or more of the following 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64742-01-4, 64742-44-5, 64742-45-6, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-63-8, 64742-65-0, 64742-70-7, 72623-85-9, 72623-86-0, 72623-87-1 |

**📄** Indicates information that has changed from previously issued version.

### Notice to reader

|                     |                                  |                     |                         |                  |
|---------------------|----------------------------------|---------------------|-------------------------|------------------|
| <b>Product name</b> | Braycote Micronic 601 EF         | <b>Product code</b> | 461640-US03             | <b>Page:</b> 8/9 |
| <b>Version</b> 6    | <b>Date of issue</b> 01/15/2021. | <b>Format</b> US    | <b>Language</b> ENGLISH |                  |



## Section 16. Other information

*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 BP Group.*

*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. You can contact the BP Group to ensure that this document is the most current available. Alteration of this document is strictly prohibited.*