



**BROOKFIELD ENGINEERING LABORATORIES, INC.**  
11 COMMERCE BOULEVARD  
MIDDLEBORO, MASSACHUSETTS 02346, USA

## Material Safety Data Sheet

Fluid B600, B1060, B2000, CAP1L, CAP2L,  
CAP3L, CAP4L, CAP5L, CAP7L, CAP10L,  
CAP0H, CAP1H, CAP2H, CAP3H, CAP10H,  
KU61, KU73, KU87, KU99, KU106

**Revision Date:** *May 3, 2012*

### SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

#### PRODUCT

**Product Name:** General Purpose Viscosity Standard – Synthetic Base Oil

**Production Description:** Synthetic Base Oil

**Product Code:** B600, B1060, B2000, CAP1L, CAP2L, CAP3L, CAP4L, CAP5L,  
CAP7L, CAP10L, CAP0H, CAP1H, CAP2H, CAP3H, CAP10H,  
KU61, KU73, KU87, KU99, KU106

**Intended Use:** Viscometer calibration standards

#### COMPANY IDENTIFICATION

**Supplier:** Brookfield Engineering Laboratories, Inc.  
11 Commerce Boulevard  
Middleboro, MA 02346  
Phone: (508) 946-6200

#### EMERGENCY TELEPHONE (CHEM-TEL INC.):

Domestic (US/PR/Canada/US Virgin Islands): (800) 255-3924

International (Outside North America): +1 (813) 248-0585

### SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

- OSHA Hazardous Substance(s) or Complex Substance(s)

None present. This is not a hazardous substance as defined in the OSHA Hazard Communication Standard

### SECTION 3 HAZARD IDENTIFICATION

This product is not classified as hazardous

#### EFFECTS OF OVEREXPOSURE:

##### Acute effects

**Eye:** Non-toxic, not classified as irritating. Direct contact may cause temporary redness and discomfort.

**Skin:** No significant irritation expected from a single short-term exposure



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**Inhalation:** No significant effects expected from a single short-term exposure. Inhalation exposures are not expected under recommended uses/ conditions

**Oral:** Low ingestion hazard in normal use. If ingested, do not induce vomiting.

### Prolonged/ repeated exposure effects

**Skin:** Not classified as hazardous

**Inhalation:** Not classified as hazardous

**Oral:** Not classified as hazardous

Repeated and/or prolonged exposure may cause irritation to the skin, eyes or respiratory tract.

### Signs and symptoms of overexposure:

Irritation and/ or redness of eyes and skin

### Medical conditions aggravated by exposure

None identified

**NFPA HAZARD ID:** Health: 0 Flammability: 1 Reactivity: 0  
(National Fire Protection Association)

NOTE: This material should not be used for any other purpose than the intended use in Section 1

## **SECTION 4 FIRST AID MEASURES**

**INHALATION** If respiratory irritation, dizziness, nausea, or unconsciousness occurs due to excessive vapor or mist exposure, seek medical assistance.

**SKIN CONTACT** Wash contact areas with soap and water. Remove and clean oil soaked clothing daily and wash affected area.

**EYE CONTACT** Flush thoroughly with water. If irritation persists, call a physician.

**INGESTION** Seek medical attention. Do not induce vomiting.

**NOTE TO PHYSICIAN:** Treat symptomatically.

## **SECTION 5 FIRE-FIGHTING MEASURES**



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### EXTINGUISHING MEDIA

**Appropriate extinguishing media:** Carbon dioxide, foam, dry chemical and water fog. Water can be used to cool fire exposed containers. For large fires, use alcohol- or universal-type foams. Water jets should not be used

### FIRE FIGHTING

**Fire fighting instructions:** Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep the exposed containers cool. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

**Unusual fire hazards:** None identified

**Hazardous combustion products:** Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Fumes, smoke, carbon monoxide, aldehydes and other decomposition products

### FLAMMABILITY PROPERTIES

**Flash point °C (°F) [method]:** 280°C / 536°F, minimum

**Flammable limits (approx. Volume % in air)** – not available

**Autoignition temperature °C (°F):** 310°C / 590 °F, minimum

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**NOTIFICATION PROCEDURES:** Report spills/releases to appropriate authorities as required.

### CONTAINMENT/ CLEANUP

#### PROCEDURES IF MATERIAL IS RELEASED OR SPILLED:

**LAND SPILL:** Shut off source taking normal safety precautions. Take measures to minimize the effects on ground water. Recover by pumping or contain spilled material with sand or other suitable absorbent and remove mechanically into containers. If necessary, dispose of adsorbed residues as required by regulations (see Section 13.)

**WATER SPILL:** Confine the spill immediately with booms. Notify relevant authorities. Remove from the surface by skimming or with suitable absorbents

**ENVIRONMENTAL PRECAUTIONS:** Prevent material from entering sewers, water sources or low lying areas; advise the relevant authorities if it has, or if it contaminates soil/vegetation.

### PERSONAL PROTECTIVE EQUIPMENT FOR SPILLS

**Eyes:** Use proper protection – safety glasses as a minimum

**Skin:** Washing at mealtime and end-of-shift is adequate

**Inhalation:** No respiratory protection should be needed

**Precautionary measures:** Avoid eye contact. Use reasonable care

## SECTION 7 HANDLING AND STORAGE

### HANDLING



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Avoid prolonged/ repeated skin contact. Use with adequate ventilation

### **STORAGE:**

Keep containers closed when not in use. Do not store in open or unlabelled containers. Store in a cool, dry place; do not store near heat, sparks, flame or strong oxidants.

### **SPECIAL PRECAUTIONS**

Prevent small spills and leakages to optimize housekeeping and avoid slip hazards.

### **EMPTY CONTAINER WARNING**

Empty containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

### **STORAGE**

Use reasonable care and store away from oxidizing materials

## **SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **EXPOSURE LIMIT VALUES**

No workplace exposure limits have been established for this product

### **ENGINEERING CONTROLS**

General ventilation is recommended. No local exhaust ventilation should be needed

### **PERSONAL PROTECTION**

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

#### **Respiratory Protection:**

No respiratory protection should be needed under recommended conditions of use

#### **Hand Protection:**

No special protection is needed

#### **Eye Protection:**

Use proper protection – safety glasses as a minimum

#### **Specific Hygiene Measures:**

Washing at mealtime and end-of-shift is adequate. Provide eyewash fountains in the event of accidental splash to the eyes

## **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Typical physical and chemical properties are given below. Consult the Cannon Instrument Company as indicated



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in Section 1 for additional data.

### GENERAL INFORMATION

**Physical state:** Clear liquid  
**Form:** Liquid  
**Color:** clear colorless  
**Odor:** Characteristic odor  
**Odor threshold:** not available

### IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION

**Specific Gravity @ 25°C:** Lighter than water  
**Bulk density g/cc:** not available  
**Density, kg/m<sup>3</sup> (lbs./gal.):** not available  
**Flash point °C (°F) [method]:** 536°F/ 280°C, minimum  
**Flammable limits (approx. Volume % in air) -** not available  
**Ignition temperature (polymers) °C (°F):** not available  
**Autoignition temperature °C (°F):** 590°F/ 310°C, minimum  
**Boiling point/range °C (°F):** not available  
**Vapor density @ 101 kPa (air =1):** not available  
**Vapor pressure @ 20°C, kPa (mm Hg):** not available  
**Evaporation rate (n-butyl acetate =1):** not available  
**pH:** not applicable  
**Log Pow (n-Octanol/water partition coefficient):** not available  
**Solubility in water (20 °C):** negligible  
**Viscosity:** see product specification

### OTHER INFORMATION

**Freezing point °C (°F):** not available  
**Melting Point °C (°F):** not available  
**Pour point °C (°F):** not available  
**Molecular weight:** not available  
**Hygroscopic:** no  
**Coefficient of thermal expansion:** not determined

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable

**CONDITIONS TO AVOID:** Extreme heat and high energy sources of ignition.

**MATERIALS TO AVOID:** Strong oxidizing agents/ materials can cause a reaction

**HAZARDOUS DECOMPOSITION PRODUCTS:** Product does not decompose at ambient temperatures.

**HAZARDOUS POLYMERIZATION:** Hazardous polymerization will not occur

## SECTION 11 TOXICOLOGICAL INFORMATION



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Information from suppliers indicates that the product is not classifiable as hazardous

### **SECTION 12 ECOLOGICAL INFORMATION**

#### **Environmental fate and distribution**

No specific environmental data are available for this product; this assessment is based on information for similar components/ products.

**Air:** This product has a low vapor pressure. As a result, it is unlikely to become an atmospheric contaminant under recommended conditions of use

**Water:** This product has low water solubility. Since it has a specific gravity of <1, if discharged to water, it will form a surface film. No specific ecological data are available from the supplier for this product

**Soil:** No specific ecological data are available from the supplier for this product

**Degradation:** No specific ecological data are available from the supplier for this product

#### **Environmental effects**

**Toxicity to water organisms:** No specific ecological data are available from the supplier for this product

**Toxicity to soil organisms:** No specific ecological data are available from the supplier for this product

**Bioaccumulation:** No specific ecological data are available from the supplier for this product

#### **Fate and effects in water treatment plants**

No specific data are available from the supplier for this product

### **SECTION 13 DISPOSAL CONSIDERATIONS**

When a decision is made to discard this material, it is not considered a hazardous waste under Resource Conservation and Recovery Act (RCRA).

State or local laws may impose additional regulatory requirements regarding disposal

**WASTE DISPOSAL :** Product is suitable for burning in an enclosed, controlled burner for fuel value. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.



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### SECTION 14 TRANSPORT INFORMATION

**Note:** The information provided below may not apply to all shipping situations. Consult appropriate Dangerous Goods Regulations for additional requirements and mode-specific, material-specific, or quantity-specific shipping requirements.

United States Department of Transportation (US DOT):

| UN/ID#   | Proper Shipping Name | Class/Division | Hazard Label(s) | Packing Group |
|--|----------------------|----------------|-----------------|---------------|
| Not Regulated As A Hazardous Material Or Dangerous Good For This Mode of Transportation. |                      |                |                 |               |

International Air Transport Association (IATA):

| UN/ID#   | Proper Shipping Name | Class/Division | Hazard Label(s) | Packing Group |
|--|----------------------|----------------|-----------------|---------------|
| Not Regulated As A Hazardous Material Or Dangerous Good For This Mode of Transportation. |                      |                |                 |               |

### SECTION 15 REGULATORY INFORMATION

**OSHA HAZARD COMMUNICATION STANDARD:** When used for its intended purposes, this material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

**NATIONAL CHEMICAL INVENTORY LISTING:** This product, and/ or its constituents, is listed on the US EPA/ TSCA (Toxic Substances Control Act) Inventory

**COMMUNITY RTK:**

| Chemical Name      | CAS Number  | Typical Value | Component TPQ  | Product TPQ    |
|--------------------|-------------|---------------|----------------|----------------|
| Synthetic base oil | 68037-01-4  | 0-100%        | Not applicable | Not applicable |
|                    | 151006-63-2 | 0-68%         |                |                |

**Section 304 CERCLA HAZARDOUS SUBSTANCES:**

This product contains no chemicals that are classified as hazardous under CERCLA

**SARA (311/312) REPORTABLE HAZARD CATEGORIES:**

This product contains no chemicals that are classified as hazardous under SARA 312

**SARA (313) TOXIC RELEASE INVENTORY:**

This product contains no chemicals that are regulated under SARA 313



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### **International chemical inventories and hazard classifications**

**This product and/ or its components are on the Canadian Domestic Substance List/ NDSL, or are otherwise in compliance with related regulations.**

**WHMIS Classifications (Canada):**

This series of fluids is not controlled under provisions of WHMIS

**This product and/ or its components are on EINECS (European Inventory of Existing Chemical Substances) and/ or ELINCS (European Library of Notified Chemical Substances), or is otherwise in conformance with related EU directives/ regulations.**

**EU Hazard Classification, risk and safety phrases (Europe):**

This series of fluids is not classified as dangerous according to EU directives and regulations.

**SECTION 16**

**OTHER INFORMATION**

**THIS AREA INTENTIONALLY LEFT BLANK**