

**MATERIAL SAFETY DATA SHEET**

**SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

|                             |  |                             |                               |
|-----------------------------|--|-----------------------------|-------------------------------|
| <b>Product:</b>             | BK-1, BK-1A, BK-1SP, BK-1ASP, BK-4, BK-8, BK-12, BK-3, BKB-3, BKBC-1, BKB-1P | <b>Trade Name:</b>          | Brake Lubricant               |
| <b>Manufacturer:</b>        | AGS Company  | <b>Common Name:</b>         | Non-Petroleum<br>Brake Grease |
| <b>Street Address:</b>      | 2651 Hoyt St   | <b>Original Issue Date:</b> | 4/20/92                       |
| <b>City/State/Zip</b>       | Muskegon Hts., MI 49444  | <b>Revision No.</b>         | 6 <b>Date</b> 8/23/05         |
| <b>Phone:</b>               | 800-253-0403   |                             |                               |
| <b>Phone:</b>               | 231-733-2101   |                             |                               |
| <b>FAX:</b>                 | 231-733-1784   |                             |                               |
| <b>Transportation Emerg</b> | CHEM-TEL   |                             |                               |
| <b>Phone:</b>               | 800-255-3924   |                             |                               |

**SECTION 2 - COMPOSITION/ INFORMATION ON INGREDIENTS**

| ITEM                           | CAS NUMBER | WT/WT % |
|--------------------------------|------------|---------|
| 1 Polypropylene Glycol         | 25322-69-4 | 30-60   |
| 2 Methylated Silica            | 67762-90-7 | 7-13    |
| 3 Phenyl - Alpha-Naphthylamine | 90-30-2    | 0.1-1   |
| 4 N-Cis-Octadecenoyl Sarcosine | 110-25-8   | 0.1-1   |
| 5 Oleoyl Sarcosine             | Mixture    | 0.1-1   |
| 6 Diethyl Phthalate            | 84-66-2    | 0.1-1   |

**EXPOSURE LIMITS**

| ITEM   | ACGIH                |          | OSHA                |             |  |
|--------|----------------------|----------|---------------------|-------------|--|
|        | TLV-TWA              | TLV-STEL | PEL-TWA             | PEL-CEILING |  |
| 1 N.E. |                      | N.E.     | N.E.                | N.E.        |  |
| 2      | 10 mg/m <sup>3</sup> | N.E.     | 6 mg/m <sup>3</sup> | N.E.        |  |
| 3 N.E. |                      | N.E.     | N.E.                | N.E.        |  |
| 4 None |                      | None     | None                | None        |  |
| 5 N.E. |                      | N.E.     | N.E.                | N.E.        |  |
| 6      | 5 mg/m <sup>3</sup>  | N.E.     | 5 mg/m <sup>3</sup> | N.E.        |  |

(See Section 16 for abbreviation legend)

**SECTION 3 - HAZARDS IDENTIFICATION**

**EYE CONTACT:** May be irritating and can cause pain, tearing, reddening and swelling.

**SKIN CONTACT:** Prolonged contact may result in irritation.

**INHALATION:** None expected.

**INGESTION:** This material may be harmful if swallowed.

**CHRONIC HAZARDS:** There are no foreseeable uses of the product that would lead to chronic exposure.

**Primary Route(s) of Entry** Skin and eye contact or ingestion.

**SECTION 4 - FIRST AID MEASURES**

**EYE CONTACT:** Immediately flush eyes with plenty of water. Get medical attention, if irritation persists

**SKIN CONTACT:** Immediately flush with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately before reuse.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

**INGESTION:** Get medical attention immediately. If swallowed, DO NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**SECTION 5 - FIRE FIGHTING MEASURES**

|                                  |       |       |                               |      |   |
|----------------------------------|-------|-------|-------------------------------|------|---|
| <b>FLASH POINT:</b>              | 425°F | 218°C | <b>LOWER EXPLOSIVE LIMIT:</b> | N.A. | % |
|                                  |       |       | <b>UPPER EXPLOSIVE LIMIT:</b> | N.A. | % |
| <b>AUTOIGNITION TEMPERATURE:</b> | N.D.  |       |                               |      |   |

**MATERIAL SAFETY DATA SHEET**EXTINGUISHING MEDIA: CO<sub>2</sub>, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS: Product can produce dense smoke from oils burning.

SPECIAL FIREFIGHTING PROCEDURES: Wear NIOSH/MSHA approved self-contained breathing apparatus and protective gear.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

RECOVERY PROCEDURES: Scrape up material and place in a chemical waste container.

**SECTION 7 - HANDLING AND STORAGE**

HANDLING: Wash thoroughly after handling

STORAGE: Store in cool dry environment.

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

ENGINEERING CONTROLS: No special controls needed when used in supplied form.

RESPIRATORY PROTECTION: For most conditions, no respiratory protection should be needed, however, if high vapor concentration should develop, use a NIOSH approved organic vapor respirator.

SKIN PROTECTION: Where contact is likely, wear chemical resistant gloves.

EYE PROTECTION: Wear safety glasses with side shields or goggles.

OTHER PROTECTIVE EQUIPMENT: Eye wash in work area.

HYGIENIC PRACTICES: Wash hands before eating. Remove contaminated clothing and wash before reuse. Use only in a well ventilated area. Follow all MSDS / label precautions even after container is emptied because they may retain product residues. Avoid prolonged or repeated contact with eyes, skin, and clothing.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

|   |                   |                  |                              |
|---|-------------------|------------------|------------------------------|
| BOILING RANGE                                       | N.A.              | VAPOR DENSITY:   | Is heavier than air          |
| ODOR  | Odorless          | ODOR THRESHOLD   | N.D.                         |
| APPEARANCE  | Opaque Semi Solid | EVAPORATION RATE | Is slower than Butyl Acetate |
| SOLUBILITY IN H <sub>2</sub> O                      | Negligible        |                  |                              |
| FREEZE POINT  | N.D.              | SPECIFIC GRAVITY | 1.0764                       |
| VAPOR PRESSURE                                      | Negligible        | pH @ 0.0%        | N.A.                         |
| PHYSICAL STATE                                      | Semi-Solid        | VISCOSITY:       | N.D.                         |
| COEFFICIENT OF WATER / OIL DISTRIBUTION: Negligible |                   |                  |                              |

**SECTION 10 - STABILITY AND REACTIVITY**

CONDITIONS TO AVOID: Sources of ignition.

INCOMPATIBILITY: Strong acid or alkali, oxidizers and amines.

HAZARDOUS DECOMPOSITION PRODUCTS Oxides of carbon and nitrogen.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions

STABILITY: This product is stable under normal storage conditions.

**SECTION 11 - TOXICOLOGICAL PROPERTIES**

PRODUCT LD-50 3750 mg/kg PRODUCT LC-50 N.D.

**COMPONENT TOXICOLOGICAL INFORMATION:**

| CHEMICAL NAME                | LD50            | LC50                             |
|------------------------------|-----------------|----------------------------------|
| Polypropylene Glycol         | 3750 mg/kg/rat  | N.E.                             |
| Castor Oil                   | N.E.            | N.E.                             |
| Methylated Silica            | N.D.            | TCL0 30 mg/m <sup>3</sup> 6h/rat |
| Dimethylpolysiloxane         | 20000 mg/kg/rat | N.E.                             |
| Phenyl - Alpha-Naphthylamine | 1625 mg/kg/rat  | N.E.                             |

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|                              |      |      |
|------------------------------|------|------|
| N-Cis-Octadecenoyl Sarcosine | N.E. | N.E. |
| Oleoyl Sarcosine             | N.E. | N.E. |
| Fragrance Neutralizer        | N.E. | N.E. |

SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No information

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of in accordance with federal, state and local regulations.

SECTION 14 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME Not regulated

DOT TECHNICAL NAME

DOT HAZARD CLASS HAZARD SUBCLASS:

DOT UN / NA NUMBER: PACKING GROUP: NA RESP. GUIDE PAGE

SECTION 15 - REGULATORY INFORMATION

U.S FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 cfr 1910.1200)

CERCLA - SARA HAZARD CATEGORY:  
 This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III ) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD CHRONIC HEALTH HAZARD

SARA SECTION 313  
 This product contains the following substance subject to the reporting requirements of Section 313 of Title of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

| CHEMICAL NAME  | CAS NUMBER | WT /WT % IS LESS THAN |
|--|------------|-----------------------|
| No SARA Section 313 components exist in this product |            | %                     |

TOXIC SUBSTANCE CONTROL ACT:  
 This product contains the following chemical substances subject to the reporting requirements of TSCA 12 (B) if exported from the United States:

| CHEMICAL NAME        | CAS NUMBER |
|----------------------|------------|
| Dimethylpolysiloxane | 63148-62-9 |

U.S. STATE REGULATIONS: AS FOLLOWS -

NEW JERSEY RIGHT-TO-KNOW:  
 The following materials are non-hazardous, but are among the top five components in this product:

| CHEMICAL NAME        | CAS NUMBER |
|----------------------|------------|
| Castor Oil           | 8001-79-4  |
| Methylated Silica    | 67762-90-7 |
| Dimethylpolysiloxane | 63148-62-9 |

PENNSYLVANIA RIGHT-TO-Know  
 The following non-hazardous ingredients are present in the product at greater than 3%:

| CHEMICAL NAME     | CAS NUMBER |
|-------------------|------------|
| Castor Oil        | 8001-79-4  |
| Methylated Silica | 67762-90-7 |

CALIFORNIA PROPOSITION 65:  
 WARNING: The chemical(s) noted below and contained in this product, are know to the state of California to causes cancer, birth defects or other reproductive harm.

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CHEMICAL NAME  
 No Proposition 65 chemicals exist in this product

CAS NUMBER

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: No information available.

**SECTION 16 - OTHER INFORMATION**

|               |        |   |              |   |            |   |     |   |
|---------------|--------|---|--------------|---|------------|---|-----|---|
| HMIS RATINGS: | Health | 0 | Flammability | 0 | Phys. Haz. | 0 | PPE | A |
| NFPA          | Health | 0 | Flammability | 0 | Reactivity | 0 |     |   |

VOLATILE ORGANIC COMPOUNDS (VOCs): 0.00 lbs / gal 0 grams / liter

LEGEND: N.A. Not Applicable N.E. Not Established  
 N.D. Not Determined

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