CAR OUTST BLAKE FLUID DOTS CONTAINER IN SAFETY DATA SHEET

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

24-HOUR EMERGENCY PHONE NUMBER: 517-636-4400

Product: BRAKE FLUID 1000

Product Code: 03386

Effective Date: 03/10/99 Date Printed:

Date Printed: 03/22/99

MSD: 002266

The Dow Chemical Company, Midland, MI 48674

Customer Information Center: 800-258-2436

2. COMPOSITION/INFORMATION ON INGREDIENTS

Proprietary mixture of glycol ethers, polyglycols, glycols, oxidation inhibitors and corrosion inhibitors

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

* Light yellow liquid. Mild odor. Causes eye irritation. Toxic

* fumes are released in fire situations.

POTENTIAL HEALTH EFFECTS (See Section 11 for toxicological data.)

EYE: May cause moderate eye irritation. May cause moderate corneal injury.

SKIN: Prolonged or repeated exposure may cause skin irritation.

May cause more severe response if skin is abraded (scratched or cut). A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. Prolonged or repeated skin contact with very large amounts of components in this mixture may cause narcosis (drowsiness). Massive contact with damaged skin or of material sufficiently hot to burn skin may result in absorption of potentially lethal amounts.

INGESTION: Single dose oral toxicity is considered to be low.

Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing of amounts larger than that may cause injury.

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3. HAZARDS IDENTIFICATION (CONTINUED)

INHALATION: At room temperatures, vapors are minimal due to physical properties; a single exposure is not likely to be hazardous.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: For the minor component(s) in humans, effects have been reported on the following organs: central nervous system, kidney, liver. In animals, effects have been reported on the following organs: bladder (stones), blood, central nervous system, kidney, gastrointestinal tract, liver, testes. Signs and symptoms of excessive exposure may be nausea and/or vomiting.

CANCER INFORMATION: No relevant information found for major components. Contains component(s) which did not cause cancer in laboratory animals.

TERATOLOGY (BIRTH DEFECTS): Contains component(s) which did not cause birth defects; other fetal effects occurred only at doses toxic to the mother. Contains component(s) which did not cause birth defects or any other fetal effects in lab animals, even at exposure levels having an adverse effect on the mother. Exposure to diethylene glycol has caused birth defects in laboratory animals only at doses toxic to the mother. Contains component(s) which have caused slight toxic effects to the fetus at doses nontoxic to the mother following skin contact. Birth defects have been reported in animals only following high oral doses, which have little relevance to human exposure.

REPRODUCTIVE EFFECTS: Contains component(s) which did not interfere with reproduction in animal studies. Some minor components, when tested separately, produced only slight toxicity to the offspring or slight reproductive effects at very high doses.

4. FIRST AID

- EYE: Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel.

SKIN: Wash off in flowing water or shower.

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4. FIRST AID (CONTINUED)

INGESTION: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

INHALATION: Remove to fresh air if effects occur. Consult a physician.

NOTE TO PHYSICIAN: No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

PLASH POINT: 272F, 133C; 280F, 138C

METHOD USED: PMCC; COC

AUTOIGNITION TEMPERATURE: Not determined.

FLAMMABILITY LIMITS

LFL: Not determined. UFL: Not determined.

HAZARDOUS COMBUSTION PRODUCTS: During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to: carbon monoxide, carbon dioxide.

OTHER FLAMMABILITY INFORMATION: Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Spills of these organic liquids on hot fibrous insulations may lead to lowering of the autoignition temperatures possibly resulting in spontaneous combustion.

EXTINGUISHING MEDIA: Water fog or fine spray, carbon dioxide, dry chemical, foam. Alcohol resistant foams (ATC type) are preferred if available. General purpose synthetic foams (including AFFF) or protein foams may function, but much less effectively. Do not use direct water stream. Will spread fire.

MEDIA TO BE AVOIDED: Do not use direct water stream.

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5. FIRE FIGHTING MEASURES (CONTINUED)

FIRE FIGHTING INSTRUCTIONS: Keep people away. Isolate fire area and deny unnecessary entry. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

5. ACCIDENTAL RELEASE MEASURES (See Section 15 for Regulatory Information)

PROTECT PEOPLE: Isolate area.

PROTECT THE ENVIRONMENT: Contain liquid to prevent contamination of soil, surface water or ground water.

CLEANUP: Clean up with absorbent material. Collect material in suitable and properly labeled open containers.

!. HANDLING AND STORAGE

HANDLING: Refer to "Exposure Controls/Personal Protection", Section 8, of the MSDS.

STORAGE: Keep containers tightly closed when not in use. Protect from atmospheric moisture.

I. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

PERSONAL PROTECTIVE EQUIPMENT

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONTINUED)

EYE/FACE PROTECTION: Use chemical goggles.

SKIN PROTECTION: When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material. Selection of specific items such as faceshield. gloves, boots, apron, or full-body suit will depend on operation. If hands are cut or scratched, use impervious gloves even for brief exposures. When handling hot material, protect skin from thermal burns as well as from skin absorption.

RESPIRATORY PROTECTION: No respiratory protection should be needed. If respiratory irritation is experienced, use an approved air-purifying respirator.

EXPOSURE GUIDELINE: None established. There are no guidelines for the principal components. One minor component has an AIHA WEEL of 50 ppm; another has an ACGIH TLV of 100 ppm TWA and 150 ppm STEL, and an OSHA PEL of 100 ppm, Skin.

A "skin" notation following the exposure guideline refers to the potential for dermal absorption of the material. It is intended to alert the reader that inhalation may not be the only route of exposure and that measures to minimize dermal exposure should be considered.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Light yellow liquid.

ODOR: Mild odor. VAPOR PRESSURE: Low.

VAPOR DENSITY: Not determined. BOILING POINT: 430F, 221C minimum SOLUBILITY IN WATER: Infinite.

SPECIFIC GRAVITY: 1.03

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable.

CONDITIONS TO AVOID: Active ingredient decomposes at elevated

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10. STABILITY AND REACTIVITY (CONTINUED)

temperatures. Product can decompose at elevated temperatures.

INCOMPATIBILITY WITH OTHER MATERIALS: Avoid contact with oxidizing materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Hazardous decomposition products depend upon temperature, air supply and the presence of other materials.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION (See Section 3 for Potential Health Effects. For detailed toxicological data, write or call the address or non-emergency number shown in Section 1)

SKIN: The dermal LD50 has not been determined.

INGESTION: The oral LD50 for rats is expected to be >2000 mg/kg.

MUTAGENICITY: In vitro mutagenicity studies were negative for component(s) tested. Mutagenicity studies in animals were negative for component(s) tested.

12. ECOLOGICAL INFORMATION (For detailed Ecological data, write or call the address or non-emergency number shown in Section 1)

ENVIRONMENTL FATE

MOVEMENT & PARTITIONING: Based largely or completely on component information. Bioconcentration potential is low (BCF less than 100 or Log Pow less than 3). Potential for mobility in soil is very high (Koc between 0 and 50).

DEGRADATION & PERSISTENCE: Based on information for triethylene glycol, and Dowanol DPM, TMH and TBH. Biodegradation under aerobic static laboratory conditions is moderate (BOD20 or BOD28/ThOD between 10 and 40%). Based on information for remaining components. Biodegradation under aerobic static laboratory conditions is high (BOD20 or BOD28/ThOD greater than 40%).

ECOTOXICITY: Based largely or completely on component

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12. ECOLOGICAL INFORMATION (For detailed Ecological data, write of call

information. Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50 >100 mg/L in most sensitive species).

13. DISPOSAL CONSIDERATIONS (See Section 15 for Regulatory Information)

DISPOSAL: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal. State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. THE DOW CHEMICAL COMPANY HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUPACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION 2 (Composition/Information on Ingredients).

FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: recycler, reclaimer, incinerator or other thermal destruction device.

As a service to its customers, Dow can provide names of information resources to help identify waste management companies and other facilities which recycle, reprocess or manage chemicals or plastics, and that manage used drums. Telephone Dow's Customer Information Center at 800-258-2436 or 517-832-1556 for further details.

14. TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION (D.O.T.): For DOT regulatory information, if required, consult transportation regulations, product shipping or contact your Dow representative.

15. REGULATORY INFORMATION (Not meant to be all-inclusive--selected regulations represented)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements

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REGULATORY INFORMATION: (CONTINUED)

are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

U.S. REGULATIONS -----

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

CHEMICAL NAME CAS NUMBER CONCENTRATION GLYCOL ETHERS <100 %

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:

An immediate health hazard A delayed health hazard

TOXIC SUBSTANCES CONTROL ACT (TSCA):

All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

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Product: BRAKE FLUID 1000 Product Code: 03386

Effective Date: 03/10/99 Date Printed: 03/22/99 MSD: 002266

REGULATORY INFORMATION: (CONTINUED)

STATE RIGHT-TO-KNOW: The following product components are cited on certain state lists as mentioned. Non-listed components may be shown in the composition section of the MSDS.

CHEMICAL NAME

CAS NUMBER LIST

PROPRIETARY INGREDIENT

PROPRIETARY X

X =This product contains proprietary ingredient(s) listed by one or more states.

OSHA HAZARD COMMUNICATION STANDARD:

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

16. OTHER INFORMATION

MSDS STATUS: Revised Sections 3, 8, 11, 12 & 13.

HAZARD RATING SYSTEMS:

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:

Health Flammability 1 Reactivity

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Effective Date: 03/10/99

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3. HAZARDS IDENTIFICATION (CONTINUED)

INHALATION: At room temperatures, vapors are minimal due to physical properties; a single exposure is not likely to be hazardous.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: For the minor component(s) in humans, effects have been reported on the following organs: central nervous system, kidney, liver. In animals, effects have been reported on the following organs: bladder (stones), blood, central nervous system, kidney, gastrointestinal tract, liver, testes. Signs and symptoms of excessive exposure may be nausea and/or vomiting.

CANCER INFORMATION: No relevant information found for major components. Contains component(s) which did not cause cancer in laboratory animals.

TERATOLOGY (BIRTH DEFECTS): Contains component(s) which did not cause birth defects; other fetal effects occurred only at doses toxic to the mother. Contains component(s) which did not cause birth defects or any other fetal effects in lab animals, even at exposure levels having an adverse effect on the mother. Exposure to diethylene glycol has caused birth defects in laboratory animals only at doses toxic to the mother. Contains component(s) which have caused slight toxic effects to the fetus at doses nontoxic to the mother following skin contact. Birth defects have been reported in animals only following high oral doses, which have little relevance to human exposure.

REPRODUCTIVE EFFECTS: Contains component(s) which did not interfere with reproduction in animal studies. Some minor components, when tested separately, produced only slight toxicity to the offspring or slight reproductive effects at very high doses.

4. FIRST AID

- EYE: Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel.

SKIN: Wash off in flowing water or shower.

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4. FIRST AID (CONTINUED)

INGESTION: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

INHALATION: Remove to fresh air if effects occur. Consult a physician.

NOTE TO PHYSICIAN: No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

PLASH POINT: 272F, 133C; 280F, 138C

METHOD USED: PMCC; COC

AUTOIGNITION TEMPERATURE: Not determined.

FLAMMABILITY LIMITS

LFL: Not determined. UFL: Not determined.

HAZARDOUS COMBUSTION PRODUCTS: During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to: carbon monoxide, carbon dioxide.

OTHER FLAMMABILITY INFORMATION: Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Spills of these organic liquids on hot fibrous insulations may lead to lowering of the autoignition temperatures possibly resulting in spontaneous combustion.

EXTINGUISHING MEDIA: Water fog or fine spray, carbon dioxide, dry chemical, foam. Alcohol resistant foams (ATC type) are preferred if available. General purpose synthetic foams (including AFFF) or protein foams may function, but much less effectively. Do not use direct water stream. Will spread fire.

MEDIA TO BE AVOIDED: Do not use direct water stream.

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5. FIRE FIGHTING MEASURES (CONTINUED)

FIRE FIGHTING INSTRUCTIONS: Keep people away. Isolate fire area and deny unnecessary entry. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

5. ACCIDENTAL RELEASE MEASURES (See Section 15 for Regulatory Information)

PROTECT PEOPLE: Isolate area.

PROTECT THE ENVIRONMENT: Contain liquid to prevent contamination of soil, surface water or ground water.

CLEANUP: Clean up with absorbent material. Collect material in suitable and properly labeled open containers.

!. HANDLING AND STORAGE

HANDLING: Refer to "Exposure Controls/Personal Protection", Section 8, of the MSDS.

STORAGE: Keep containers tightly closed when not in use. Protect from atmospheric moisture.

I. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

PERSONAL PROTECTIVE EQUIPMENT

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONTINUED)

EYE/FACE PROTECTION: Use chemical goggles.

SKIN PROTECTION: When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material. Selection of specific items such as faceshield. gloves, boots, apron, or full-body suit will depend on operation. If hands are cut or scratched, use impervious gloves even for brief exposures. When handling hot material, protect skin from thermal burns as well as from skin absorption.

RESPIRATORY PROTECTION: No respiratory protection should be needed. If respiratory irritation is experienced, use an approved air-purifying respirator.

EXPOSURE GUIDELINE: None established. There are no guidelines for the principal components. One minor component has an AIHA WEEL of 50 ppm; another has an ACGIH TLV of 100 ppm TWA and 150 ppm STEL, and an OSHA PEL of 100 ppm, Skin.

A "skin" notation following the exposure guideline refers to the potential for dermal absorption of the material. It is intended to alert the reader that inhalation may not be the only route of exposure and that measures to minimize dermal exposure should be considered.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Light yellow liquid.

ODOR: Mild odor. VAPOR PRESSURE: Low.

VAPOR DENSITY: Not determined. BOILING POINT: 430F, 221C minimum SOLUBILITY IN WATER: Infinite.

SPECIFIC GRAVITY: 1.03

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable.

CONDITIONS TO AVOID: Active ingredient decomposes at elevated

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10. STABILITY AND REACTIVITY (CONTINUED)

temperatures. Product can decompose at elevated temperatures.

INCOMPATIBILITY WITH OTHER MATERIALS: Avoid contact with oxidizing materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Hazardous decomposition products depend upon temperature, air supply and the presence of other materials.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION (See Section 3 for Potential Health Effects. For detailed toxicological data, write or call the address or non-emergency number shown in Section 1)

SKIN: The dermal LD50 has not been determined.

INGESTION: The oral LD50 for rats is expected to be >2000 mg/kg.

MUTAGENICITY: In vitro mutagenicity studies were negative for component(s) tested. Mutagenicity studies in animals were negative for component(s) tested.

12. ECOLOGICAL INFORMATION (For detailed Ecological data, write or call the address or non-emergency number shown in Section 1)

ENVIRONMENTL FATE

MOVEMENT & PARTITIONING: Based largely or completely on component information. Bioconcentration potential is low (BCF less than 100 or Log Pow less than 3). Potential for mobility in soil is very high (Koc between 0 and 50).

DEGRADATION & PERSISTENCE: Based on information for triethylene glycol, and Dowanol DPM, TMH and TBH. Biodegradation under aerobic static laboratory conditions is moderate (BOD20 or BOD28/ThOD between 10 and 40%). Based on information for remaining components. Biodegradation under aerobic static laboratory conditions is high (BOD20 or BOD28/ThOD greater than 40%).

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information. Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50 >100 mg/L in most sensitive species).

13. DISPOSAL CONSIDERATIONS (See Section 15 for Regulatory Information)

DISPOSAL: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal. State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. THE DOW CHEMICAL COMPANY HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUPACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION 2 (Composition/Information On Ingredients).

FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: recycler, reclaimer, incinerator or other thermal destruction device.

As a service to its customers, Dow can provide names of information resources to help identify waste management companies and other facilities which recycle, reprocess or manage chemicals or plastics, and that manage used drums. Telephone Dow's Customer Information Center at 800-258-2436 or 517-832-1556 for further details.

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REGULATORY INFORMATION: (CONTINUED)

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CAS NUMBER LIST

PROPRIETARY INGREDIENT

PROPRIETARY X

X =This product contains proprietary ingredient(s) listed by one or more states.

OSHA HAZARD COMMUNICATION STANDARD:

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16. OTHER INFORMATION

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HAZARD RATING SYSTEMS:

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:

Health Flammability 1 Reactivity

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