



MATERIAL SAFETY DATA SHEET

MSDS No. 108726
Date : 12/28/2005

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Brake Fluid GC325AA

Brake Fluid GC325AA

Emergency Number : General Information :
Chemtrec : 800/424-9300 CCI : 630/739-0606

SECTION I - IDENTIFICATION

Product : Brake Fluid GC325AA

Synonyms : None

Chemical Family : Mixture of glycols, glycol ethers and additives

Formula : Not applicable/Mixture

Use Description : Brake fluid

OSHA Hazard Classification : Mild skin, eye and mucous membrane irritant

Cas RN : Mixture - no single CAS number applicable

SECTION II - INGREDIENTS

Product Composition

Descriptive Name : Glycol ether
Cas Number : Proprietary - See Section XII
Percentage Proprietary - See Section XII
Hazardous Per 29 CFR 1910.1200 : No
Exposure Standards : None established

Descriptive Name : Glycol derivative
Cas Number : Proprietary - See Section XII
Percentage Proprietary - See Section XII
Hazardous Per 29 CFR 1910.1200: No
Exposure Standards : None established

Descriptive Name : Glycol ether borate ester
Cas Number : Proprietary - See Section XII
Percentage Proprietary - See Section XII
Hazardous Per 29 CFR 1910.1200: No
Exposure Standards : None established

SECTION III - HEALTH INFORMATION

Routes of Absorption

Eye and dermal contact, ingestion

Human Threshold Response Data

Odor Threshold : No data

Irritation Threshold : No data

Immediately Dangerous to Life or Health: The IDLH concentration has not been established for this product.

Signs, Symptoms and Effects of ExposureInhalation :

Acute : No significant adverse effects to health are expected from inhalation.

Chronic : There are no known or reported effects from chronic exposures.

Ingestion :

Acute : Ingestion may cause gastrointestinal discomfort with any or all of the following symptoms: nausea, vomiting, lethargy or diarrhea.

Chronic : There are no known or reported effects from chronic exposure except for effects similar to those experienced from single exposure.

Eye Contact :

If significant quantities of this mixture come into contact with the eyes, it may cause mild irritation consisting of reversible redness, swelling and mucous discharge to the conjunctiva. No corneal involvement or visual impairment would be expected.

Skin Contact :

Acute : If significant quantities of this mixture come into contact with the skin, it may cause mild irritation consisting of transient redness. This irritant effect would not be expected to result in permanent damage.

Chronic : There are not known or reported effects from chronic exposure except for effects similar to those experienced from single exposure.

Medical Conditions Aggravated by Exposure :

None known or reported.

Interactions with Other Chemicals Which Enhance Toxicity :

None known or reported.

Acute Target Organ Toxicity :

May cause mild irritation to eyes, mucous membranes and skin. May cause gastrointestinal discomfort.

Chronic Target Organ Toxicity :

There are no known or reported effects from repeated exposure except for effects similar to those experienced from single exposure.

SECTION III - HEALTH INFORMATION (CONTINUED)

Reproductive and Developmental Toxicity :

There are no known or reported effects on reproductive functions or fatal development from exposure to this specific mixture.

A component of this product, glycol, has been tested and found that continuous exposure for 14 weeks in the drinking water at concentrations producing maternal toxicity resulted in an adverse effect in fertility and reproductive performance in laboratory animals. The fact that such findings were present only at those concentrations producing maternal toxicity diminishes the weight of such findings. Based on the limited exposure through industrial handling, exposure through ingestion being highly unlikely, and that this component is present at low concentrations in this product, the use of this product is not considered to pose any reproductive hazard.

The glycol ether present in this product has been tested in laboratory animals and was found to cause testicular degeneration and atrophy in male animals after that administration of large doses in the drinking water for 90 days. The dose required from oral exposure to produce such effects makes it highly unlikely that sufficient exposure would be encountered industrially through normal use and handling. A similar study conducted to evaluate this glycol ether by dermal exposure for 90 days did not produce similar findings.

Carcinogenicity :

This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA.

Mutagenicity :

This product is not known or reported to be mutagenic.

Animal Toxicology :Acute Toxicity :

Inhalation LC 50 : No available data for this specific mixture, but toxicity is expected to be low via this route of exposure.

Dermal LD 50 : Believed to be >2 g/kg (rabbit)

Oral LD 50 : Believed to be 3-4 g/kg (rat). May be harmful if swallowed.

Irritation : May cause mild skin irritation. May cause mild eye and mucous membrane irritation.

Aquatic Toxicity : None known or reported.

SECTION IV - OCCUPATIONAL EXPOSURE LIMITS

PEL (OSHA Permissible Exposure Limit) : None established for mixture, See Section II.

TLV (ACGIH Threshold Limit Value) : None established for mixture, See Section II.

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SECTION V - EMERGENCY FIRST AID PROCEDURE

Ingestion : Do not induce vomiting. Get immediate medical assistance.

Inhalation : This product is not toxic by inhalation. Remove individual to fresh air.

Eye Contact : Immediately flush with large amounts of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Call a physician at once.

Skin Contact : Immediately flush with water for 15 minutes. Wash the contaminated skin with soap and water. If irritation develops, call a physician. If clothing comes in contact with the product, the clothing should be laundered before reuse.

SECTION VI - PHYSICAL DATA

Boiling Point : Higher than 450 F

Vapor Pressure : Below 0.1 mmHg

Solubility in Water : Complete

Volatile, percent by Volume : No data

Specific Gravity (60/60 F): 1.05

Vapor Density (AIR = 1) : Approx. 7

pH (50% Water Solution) : 9.6

Molecular Weight : Not applicable/ Mixture

Appearance and Color : Light yellow homogeneous liquid

Odor : Mild, Characteristic

Coefficient of Oil/Water Distribution : No data

SECTION VII - FIRE AND EXPLOSION HAZARDS

Flammability Data :

Flammable : No

Combustible : No

Pyrophoric : No

Flash Point : 129 C (266 F) Test Method : Cleveland Open Cup

Autoignition Temperature : No data

Flammable Limits at Normal Atmospheric Temp. and Pressure (Percent Volume in Air):

LEL - No data

UEL - No data

NFPA Rating : Not established

HMIS Ratings : Health : 1 Flammability : 1 Reactivity : 1

Extinguishing Media : Alcohol foam, carbon dioxide, dry chemical, water spray

Fire Fighting Techniques and Comments : Use water to cool containers exposed to fire. See section X for protective equipment for fire fighting.

SECTION VIII - REACTIVITY

Conditions under Which This Product May Be Unstable :

Temperature Above :	Stable at normal temperature
Mechanical Shock or Impact :	No
Electrical (Static) Discharge :	No
Hazardous Polymerization :	Will not occur
Incompatible Materials :	Strong oxidizers, acids and alkalis
Hazardous Decomposition products:	Carbon monoxide, carbon dioxide

Summary of Reactivity :

Oxidizer :	No
Pyrophoric :	No
Organic Peroxide :	No
Water Reactive :	No

SECTION IX - EMPLOYEE PROTECTION

Control Measures :	Handle in the presence of adequate ventilation. Engineering controls should be used whenever feasible to maintain concentrations below acceptable exposure criteria (see Section II and IV), including enclosures and local exhaust ventilation.
Respiratory Protection :	Where exposure is likely to exceed acceptable criteria (see Section II and IV) and engineering controls are not feasible, use NOSH/MISHA approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminants in air and in accordance with OSHA (29 CFR 1910.134).
Protective Clothing :	Wear gloves and protective clothing which are impervious to the product for the duration of exposure if there is potential for skin contact.
Eye Protection :	Wear safety glasses meeting the specifications of ANSI standard Z87.1 where no contact with the eye is anticipated. Chemical safety goggles meeting the specification of ANSI Standard Z87.1 should be worn whenever there is the possibility of splashing or other contact with the eyes.

SECTION X - ENVIRONMENTAL PROTECTION

For all transportation accidents, call CHEMTREC at **800-424-9300**.

Reportable quantity :	Not applicable
Spill Mitigation Procedures:	Evacuation procedures must be placed into effect. Evacuate all nonessential personnel. Utilize emergency response personal protective equipment prior to the start of any response. Remove all sources of ignition. Stop source of spill as soon as possible and notify appropriate personnel.
Air Release :	Vapors may be suppressed by the use of water fog or spray. Contain all liquid for treatment and/or disposal as a (potential) hazardous waste.

SECTION X - ENVIRONMENTAL PROTECTION (CONTINUED)

- Water Release : This material is heavier than and soluble in water. Notify all downstream water users of possible contamination. Divert water flow around spill if possible and safe to do so if unable to divert, create an overflow dam to contain material. Continue to handle as described in land spill.
- Land Spill : Create a dike or trench to contain materials. Spill materials may be absorbed using sand, clay or commercial absorbent. Do not place spill materials back in their original container. Containerize and label all spill materials properly. Decontaminate all clothing and the spill area using soap solution and flush with large amounts of water.
- Spill Residues : Dispose of per guidelines under Waste Disposal.
- Waste Disposal : If this product becomes a waste, it DOES NOT meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D.
- As a non-hazardous liquid waste, it should be disposed of in accordance with local, state and federal regulations by incineration.
- Care must be taken to prevent environmental contamination from the use of this material. The use of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.**

SECTION XI - REGULATORY CONTROLS

Department of Transportation :

DOT Classification :	No DOT Classification
Other DOT Information :	Not applicable
IATA :	Not regulated
IMDG Code :	Not regulated

Other Regulatory Requirements :

Toxic Substance Control Act :

This product is a mixture: therefore, it is not listed in the TSCA Inventory of Chemical Substances. All of the components of the mixture are listed in the TSCA Inventory of Chemical Substances.

SARA Hazard Categories PER 40 CFR 370.2 :

Health :	Immediate(Acute) and Delayed (Chronic)
Physical :	None

SECTION XI - REGULATORY CONTROLS (CONTINUED)

Emergency Planning and Community Right to Know

Extremely Hazardous Substance - Threshold Planning Quantity :
None established

Supplier Notification Requirements, PER 40 CFR 372.45 :

This mixture or trade name product contains a toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372.

Chemicals Listed Are : Glycol Ethers

The specific chemical identity and percentage composition are being withheld as trade secrets.

State Right to Know :

Pennsylvania : The specific chemical identity and percentage composition are being withheld as trade secrets.

New Jersey : The specific chemical identity and percentage composition are being withheld as trade secrets.

SECTION XII - ADDITIONAL INFORMATION

The specific chemical identity and percentage composition are being withheld as trade secrets (as per Section II).

SECTION XIII - PRECAUTIONS: HANDLING, STORAGE AND USAGE

Do not take internally. Avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash off with water.

Storage Conditions : Do not store at temperatures above : Normal room temperature is satisfactory.

Product Stability and Compatibility :

Shelf Life Limitations : 3 years in sealed containers.

Incompatible materials for storage or transport : Strong oxidizers, acids and alkalis.

SECTION XIV - CONTACT INFORMATION

The information presented herein is believed to be factual as it has been derived from the works and opinions of people believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which CCI Manufacturing IL Corporation bears legal responsibility. The user should review any recommendation in the specific context of intended use to determine whether they are appropriate.

Prepared By CCI MANUFACTURING IL CORPORATION

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Mazda North American Operations

Mazda Part Number Index by MSDS Code

Mazda Part Number	Product Name	Product Type
0000-77-130E-10	DOT 3 Brake Fluid	Oils and Lubricants
0000-77-2600	Mazda Brake Fluid GC325AA	Oils and Lubricants

MSDS Code: OL020