

AIROSOL COMPANY, INC.

MCKAY CHEMICALS

MECHANICS BRAND

1101 Illinois, PO Box 120, Neodesha KS 66757 - Phone 620-325-2666

MATERIAL SAFETY DATA SHEET

EMERGENCY INFORMATION

MEDICAL: 1-800-633-9576

TRANSPORTATION: 1-800-535-5053

SECTION ONE

PRODUCT NAME: **Mechanics Brand DOT 3 BRAKE FLUID**

PRODUCT CODE: **51250MB, 51251MB, 51252MB**

ISSUE DATE: 6/15/2000 REVISED: 11/14/05 , 3/26/2009

SECTION TWO- HAZARDOUS COMPONENTS

HAZARDOUS COMPONENTS	%	CAS NO
Triethylene glycol, monobutyl ether	45-50	143-22-6
Diethylene glycol monobutyl ether	15-25	112-34-5
Diethylene glycol	<15	111-46-6
Diethylene glycol monoethyl ether	2-5	111-90-0
Triethylene glycol monoethyl ether	2-5	112-50-5
Ethanol, 2-(2-propoxyethoxy)	2-5	6881-94-3

SECTION THREE- PHYSICAL DATA

BOILING POINT: 460-470°F

VAPOR PRESSURE: <0.1 @20°C

VAPOR DENSITY: N/A

SPECIFIC GRAVITY (H₂O=1): ~1.04

SOLUBILITY IN WATER % BY WT.: Complete VOC CONTENT % BY WT.: N/A

EVAPORATION RATE (BUTYL ACETATE=1): Slower Than

APPEARANCE AND ODOR: Clear amber liquid with slight etheric odor

SECTION FOUR- FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 270°F (132°C)

FLAMMABLE LIMITS: UFL Not Determined LEL Not Determined

EXTINGUISHING MEDIUM: Dry chemical, foam, carbon dioxide, water fog. Use water to cool fire-exposed containers and to protect personnel.

FIRE AND EXPLOSION HAZARD DATA

SPECIAL FIRE FIGHTING PROCEDURES: Liquid can burn upon heating to temperatures at or above the flash point. Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires containing or around this product.

UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

SECTION FIVE- REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Avoid contact with strong oxidizing agents and temperatures in excess of 300°C (572°F)

INCOMPATIBILITY: None identified

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide and other low molecular weight hydrocarbons.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

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SECTION SIX- HEALTH HAZARD DATA

EFFECTS OF OVER EXPOSURE

EYE CONTACT: May cause moderate irritation, including burning sensation, tearing, redness, or swelling.

SKIN CONTACT: Prolonged and/or repeated skin contact with this product may cause irritation/ dermatitis. Contains component(s) which may be absorbed through the skin.

INGESTION: Pulmonary aspiration hazard if swallowed. May be harmful or fatal if swallowed. Ingestion may result in central nervous system depression and/or kidney and liver damage. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

INHALATION: Excessive inhalation may cause headache, dizziness, blurred vision, nausea, and vomiting. May cause irritation to the respiratory tract.

EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Immediately rinse with water for at least 15 minutes lifting both upper and lower eyelids, and seek medical advice. Get medical attention if eye irritation develops or persists.

SKIN CONTACT: Wash affected area with mild soap and water. Remove contaminated clothing. Get medical attention if skin disorder develops.

INHALATION: If affected, remove individual to fresh air. Get medical attention if symptoms persist.

INGESTION: If swallowed, get immediate medical attention. Do not induce vomiting.

SECTION SEVEN- ENVIRONMENTAL AND DISPOSAL INFORMATION

ACTION TO TAKE FOR SPILLS/LEAKS: Wear appropriate protective equipment during clean-up. Stop the flow of material, if this is without risk. Absorb with non-flammable suitable absorbent such as sand or earth. Dispose of used absorbent in approved waste container. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Remove soiled clothing and laundry before reuse. Avoid skin contact and inhalation of vapors during disposal of spills. Surfaces may become slippery after spillage.

SECTION EIGHT- HANDLING AND STORAGE PRECAUTIONS

Avoid getting this material into contact with your skin and eyes and avoid breathing mists or vapors. Use this product with adequate ventilation. Wash thoroughly after handling. Store in tightly sealed containers in a cool, dry, well-ventilated place away from incompatible materials. Keep containers tightly closed when not in use. Do not store this material in open or unlabeled containers. Empty containers contain product residue 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.

SECTION NINE- SPECIAL PROTECTION INFORMATION

PERSONAL PROTECTIVE EQUIPMENT

EYES/FACE: Wear safety glasses. Wear chemical goggles or faceshield if splash or mist occurs.

SKIN: Use impervious gloves for prolonged contact. Use of protective coveralls and long sleeves is recommended.

RESPIRATORY: Use an organic vapor respirator for concentrations exceeding the occupational exposure limits.

SECTION TEN- REGULATORY INFORMATION

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title iii: As Glycol Ether

CHEMICAL NAME	%	CAS NUMBER
Diethylene glycol monobutyl ether	15-25	112-34-5
Diethylene glycol monoethyl ether	2-5	111-90-0

MASSACHUSETTS RIGHT TO KNOW: NO

NEW JERSEY RIGHT TO KNOW: NO

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SECTION TEN- REGULATORY INFORMATION (continued)

PENNSYLVANIA RIGHT TO KNOW: YES

Diethylene glycol 111-46-6

Diethylene glycol monoethyl ether 111-90-0

TOXIC SUBSTANCES CONTROL ACT (TSCA) STATUS: Listed

NFPA RATING AS AN AEROSOL:N/A

HMIS: Health 2 Reactivity 0 Flammability 1

SARA HAZARD CATEGORIES AND LISTS

PRODUCT HAZARD CATEGORIES

CHRONIC HEALTH: Yes ACUTE HEALTH: Yes FIRE HAZARD: Yes

PRESSURE HAZARD: No REACTIVITY HAZARD: No

EXTREMELY HAZARDOUS SUBSTANCE: No

CERCLA HAZARDOUS SUBSTANCE: No

CARCINOGENICITY CHEMICAL IARC NTP OSHA

None listed

SECTION ELEVEN – TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

GENERAL PRODUCT INFORMATION: Diethylene glycol is a central nervous depressant and kidney and liver toxin. Over exposure may result in liver and kidney damage. Triethylene glycol monoethyl ether (TGME) is slowly absorbed through the skin. Chronic oral exposure to TGME may result in changes to the liver and testes. TGME has low order toxicity by dermal and oral routes and contact with eyes may result in irritation. Ethylene glycol is a respiratory and eye irritant. Ethylene Glycol is absorbed through the skin. Ingestion of large amounts has produced kidney damage, metabolic acidosis, renal failure, heart failure, and pulmonary edema. Calcium oxalate crystals may accumulate in kidney or brain. Ethylene glycol is a central nervous system depressant characterized by headache, dizziness, nausea, weakness, loss of judgement and coordination, coma and even death at high doses.

COMPONENT ANALYSIS - LD50/LC50

TRIETHYLENE GLYCOL, MONOBUTYL ETHER (143-22-6)

Dermal LD50 Rabbit: 3450 uL/kg

Oral LD50 Rat: 5300 mg/kg

DIETHYLENE GLYCOL MONOBUTYL ETHER (112-34-5)

Oral LD50 Mouse: 2400 mg/kg

Oral LD50 Rat: 5660 mg/kg

Dermal LD50 Rabbit: 2700 mg/kg

DIETHYLENE GLYCOL (111-46-6)

Oral LD50 Rat: 12565 mg/kg

Oral LD50 Mouse: 23700 mg/kg

Dermal LD50 Rabbit: 11890 mg/kg

TRIETHYLENE GLYCOL MONOETHYL ETHER (112-50-5)

Dermal LD50 Rabbit: 8 ml/kg

Oral LD50 Mouse: 5799 mg/kg

Oral LD50 Rat: 7750 mg/kg

DIETHYLENE GLYCOL MONOETHYL ETHER (111-90-0)

Oral LD50 Rat: 5500 mg/kg

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