

AIROSOL COMPANY, INC.

MCKAY CHEMICALS *MECHANICS BRAND*

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

MEDICAL: 1-800-633-9576

TRANSPORTATION: 1-800-535-5053

SECTION ONE

PRODUCT NAME: **Mechanics Brand LOW VOC NON-CHLORINATED BRAKE PARTS CLEANER**
PRODUCT CODE: **50278mb**
ISSUE DATE: 01-02-1997
REVISED: 02/20/2002

SECTION TWO

HAZARDOUS COMPONENTS

EXPOSURE LIMITS

	OSHA	ACGIH	OTHER	%	CAS NO
Heptane	400 ppm	400 ppm	85 ppm (1)	20-25	142-82-5
2- Propanone	750 ppm	750 ppm	1000 ppm (2)	45-55	67-64-1
Toluene	100 ppm	50 ppm	100 ppm (1)	20-25	108-88-3
Methanol	200 ppm	200 ppm	250 ppm*	<4 %	67-56-1
Carbon Dioxide	5000 ppm	5000 ppm	15000 ppm (2)	3-5	124-38-9

ABBREVIATIONS

NE: None established NA: Not applicable (1): NIOSH guidelines (2): OSHA "STEL" guidelines "STEL": Short term exposure limit N/
D: Not determined

SECTION THREE - PHYSICAL DATA

BOILING POINT: N/D VAPOR PRESSURE (mmHg or psig @ 70°F): 110 psig
VAPOR DENSITY (AIR=1): Greater than SPECIFIC GRAVITY (H₂O=1): 0.73-0.75
SOLUBILITY IN WATER % BY WT.: approx. 50% EVAPORATION RATE (BUTYL ACETATE=1): Faster than
VOC CONTENT % BY WT.: 91.3% APPEARANCE AND ODOR: Colorless liquid with aromatic/ketone-like odor

SECTION FOUR - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: <0°F FLAMMABLE LIMITS: UEL 12.8% LEL 1.0%

EXTINGUISHING MEDIUM: Dry chemical, alcohol foam or CO₂

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus when fighting fires containing or around this product. Shut off all sources of ignition, if possible. Keep exposed containers cool with water spray to prevent rupture. Evacuate all non-trained personnel. Wear full protective clothing, including helmet. Ventilate area. Contain spill and dike, if possible. For leaks or spills that have not ignited, water spray can be used to disperse the flammable vapor and protect personnel attempting to stop the leak. Do not use direct stream of water because product will float and can be re-ignited on surface of water.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Firefighters should wear SCBA'S in a positive pressure mode with full face shield. Vapors are heavier than air and may travel long distances and accumulate in low areas or spread along ground away from handling site. Eliminate all sources of ignition as vapor may ignite. Carbon oxides may be formed.

SECTION FIVE - REACTIVITY DATA

STABILITY: Stable, avoid open flames and high temperature (above 120°F) and direct sunlight.

INCOMPATIBILITY: Strong oxidizers, (such as; liquid chlorine, halogens, hydrogen peroxide, and oxygen), selected amines, strong acids (such as Nitric and Sulphuric), strong bases and molten sulphur.

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SECTION FIVE - REACTIVITY DATA (continued)

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides can form on incomplete combustion.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION SIX - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE

EYE CONTACT: Moderate eye irritation: symptoms can include redness, swelling, pain, tearing, and hazy vision.

SKIN CONTACT: After prolonged or repeated contact, symptoms can include redness, swelling, blistering, itching, and dryness. May be absorbed through the skin in harmful amounts.

SKIN ABSORPTION: May be absorbed if prolonged and repeated contact occurs. Exposures may aggravate existing eye, skin, kidney and liver disorders.

INGESTION: Not likely as an aerosol but, if swallowed, it can be harmful or fatal. **ASPIRATION HAZARD.** Irritation of gastrointestinal tissues: Symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomitus, and blood in feces. Blood Disorders: Symptoms can include a general feeling of unhealthiness, weakness, and fatigue. Heart effects: Can include arrhythmia, heart attack, and death. Kidney damage: Symptoms can include reduced urine volume, loss of appetite, weight gain, red urine, back pain, painful urination, and lethargy. Central nervous system effects: Symptoms can include emotional changes, lack of coordination, delirium, tremors, sensory loss, and coma. Aspiration Pneumonitis: Symptoms can include coughing, difficulty breathing, wheezing, pneumonia, and coughing up blood. Liver Damage: Symptoms can include yellow skin, tenderness of abdomen, abdominal distension, lethargy, fever, and death.

Contains Methanol which cannot be made non-poisonous. Deaths are reported from as little as 30 ml of Methanol; can cause blindness that could be permanent.

INHALATION: May be harmful or fatal if inhaled. Blood disorders: Symptoms include a general feeling of unhealthiness, weakness and fatigue. Clotting disorders (increased blood clotting time): Symptoms can include bruising easily and bleeding which takes a long period to stop. Gastro-intestinal disturbance: Symptoms can include nausea, vomiting and diarrhea. Cardiac sensitization: Sudden heart stoppage due to a reflex effect on the nerves which control the heart. This effect usually occurs only after inhalation of concentrated vapors such as intentional abusive sniffing of certain solvents and propellants. Heart effects: Symptoms can include arrhythmia, heart attack, and death. Nervous systems effects: Symptoms can include emotional changes, lack of coordination, delirium, tremors, sensory loss, and coma. Peripheral neuropathy: Symptoms can include tingling of extremities, incoordination, sensory losses, weakness, tremors, and emotional changes. Chemical pneumonitis: Inhalation of liquid or vapors can result in symptoms of coughing, difficulty breathing, wheezing, pneumonia, and coughing up blood. Respiratory system irritation: Symptoms can include coughing, congestion, irritation of throat, tightness of chest, wheezing and difficulty breathing. Lung damage: Symptoms can include coughing, difficulty breathing, wheezing tightness in chest, congestion, and coughing up blood. Pulmonary edema: Symptoms can include coughing, difficulty breathing, fluid in lungs, unconsciousness, and even death.

SYSTEMIC AND OTHER EFFECTS: None Known

REPRODUCTIVE/DEVELOPMENTAL TOXINS: Toluene is not classifiable as to its ability to cause reproductive health effects in humans. Mutagenicity: Toluene, a component of this product, can cause irreversible changes in the genetic material of a cell based on results of tests in workers exposed to "high" concentrations.

EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: In case of contact, immediately flush eyes with large amounts of water for 15 minutes lifting upper and lower eyelids. If irritation or other symptoms persist, call a physician.

SKIN CONTACT: In case of contact, immediately wash skin with large amounts of soap and water. Remove contaminated clothing. If irritation is severe, call a physician immediately. Wash clothing before reuse. Destroy or properly dispose of contaminated shoes.

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PRODUCT CODE: 50278mb**SECTION SIX - HEALTH HAZARD DATA (continued)**

INHALATION: If inhaled, move person to non-contaminated air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately if symptoms persist.

INGESTION: Ingestion is not likely, as an aerosol but, if ingested, do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician immediately. Gastric lavage should be only considered by medical personnel following intubation with a cuffed endotracheal tube.

SECTION SEVEN - ENVIRONMENTAL AND DISPOSAL INFORMATION

ACTION TO TAKE FOR SPILLS/LEAKS: Ventilate area-especially low places where heavy vapors might collect. Extinguish all ignition sources. Contain spill. Cover with inorganic absorbent material. Collect spilled material. Clean up residue. Place in an approved DOT container for disposal. Refer other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personnel protective equipment.

WASTE DISPOSAL METHOD: Reclaim by distillation if possible or remove to a permitted waste disposal facility in accordance with local, state and federal regulations.

REGULATORY INFORMATION: Since regulations vary, consult applicable regulations or authorities before disposal. In the event of an uncontrolled release of this material, from the container, the user should determine if release is reportable.

SARA HAZARD CLASS:

FIRE HAZARD: Yes **PRESSURE:** Yes **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes

SECTION EIGHT - HANDLING AND STORAGE PRECAUTIONS

Store in tightly sealed containers. Keep away from heat, sparks, & open flame. Do not get in eyes, on skin or clothing. Do not breathe vapor, mist, or gas. Do not store or transfer to an unmarked container. Do not throw empty containers in trash compactor. Do not store in direct sunlight. Store containers below 120°F. Read label before using. Do not smoke when handling or using this product. Do not throw empty container into fires.

SECTION NINE - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Full-face organic vapor and acid gas respirator, full-face supplied air respirator, full-face pressure demand self-contained breathing apparatus.

PROTECTIVE GLOVES: Any lined non-permeable rubber gloves like buna or nitrile.

EYE PROTECTION: Wear unvented goggles during operations in which exposure is likely. Wear full face shield.

OTHER PROTECTIVE EQUIPMENT: Non-permeable clothing to protect all skin from liquid contact.

RECOMMENDED VENTILATION: Use with appropriate local exhaust ventilation. Provide appropriate local exhaust at transfer points. Provide appropriate local exhaust ventilation on open containers. If exhaust ventilation is not adequate, use appropriate respiratory protection.

PREVENTION OF ACCIDENTAL INGESTION: Do not eat or drink or wear facial cream when using this product. Do not swallow. Wash exposed areas thoroughly with soap and water.

SECTION TEN - REGULATORY INFORMATION

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III:

CHEMICAL	CAS NUMBER	CONCENTRATION %
Toluene	108-88-3	20-25
2-Propanone	67-64-1	45-55

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SECTION TEN - REGULATORY INFORMATION (continued)

FEDERAL EPA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires the notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (rqs) in 40 CFR 302.4.

CHEMICAL	CAS NUMBER	CONCENTRATION % UPPER BOUND	RQs IN #'S
Toluene	108-88-3	20-25	1000
2-Propanone	67-64-1	45-55	5000
Methanol	67-56-1	<4	5000

CALIFORNIA PROPOSITION 65: Toluene

MASSACHUSETTS RIGHT TO KNOW: Yes

Heptane	142-82-5	20-25	
Toluene	108-88-3	20-25	
2-Propanone	67-64-1	45-55	
Carbon Dioxide	124-38-9	3-5	
Methanol	67-56-1	<4	

PENNSYLVANIA RIGHT TO KNOW: YES

Heptane	142-82-5	20-25	
Toluene	108-88-3	20-25	
2-Propanone	67-64-1	45-55	
Carbon Dioxide	124-38-9	3-5	
Methanol	67-56-1	<4	

NEW JERSEY RIGHT TO KNOW: YES

Heptane	142-82-5	20-25	
Toluene	108-88-3	20-25	
2-Propanone	67-64-1	45-55	
Carbon Dioxide	124-38-9	3-5	
Methanol	67-56-1	<4	

TOXIC SUBSTANCES CONTROL ACT (TSCA) STATUS: Listed

CALIFORNIA VOC'S: 50 %

NFPA RATING AS AN AEROSOL: Level 3

HMIS: Health 2 Reactivity 0 Flammability 4

CARCINOGENITY CHEMICAL IARC NTP OSHA

NONE LISTED

<u>WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.</u>

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