

AIROSOL COMPANY, INC.
MCKAY CHEMICALS **MECHANICS BRAND**
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EMERGENCY INFORMATION

MEDICAL: 1-800-633-9576

TRANSPORTATION: 1-800-535-5053

SECTION ONE

PRODUCT NAME: MECHANICS BRAND WINDSHIELD DEICER

PRODUCT CODE: 50270MB

ISSUE DATE: 7/19/2002, Revised 3/26/2009

SECTION TWO-HAZARDOUS COMPONENTS

HAZARDOUS COMPONENTS	EXPOSURE LIMITS				
	OSHA	ACGIH	OTHER	%	CAS NO
Methanol	200 ppm	200 ppm	250 ppm*	60-65	67-56-1
Ethylene Glycol	50 ppm	100 ppm	50 ppm(1)	8-9	107-21-1
Water	NE	NE	N/A	N/A	7732-18-5
Sodium Nitrite	(2)	(2)	N/A	0-1	7632-00-0
Carbon Dioxide	5000 ppm	5000 ppm	15000 ppm*	2-3	124-38-9

NOTE: ND: Not determined, N/A: Not applicable, NE: None established *: ACGIH "STEL" recommendation (1): CAL OSHA (2): Industry generated PEL/TLV OF 2mg/M3 is recommended STEL: Short term exposure level TWA: Time weighted average DuPont has set a 200ppm (8 and 12 hour TWA)

SECTION THREE - PHYSICAL DATA

BOILING POINT: ND VAPOR PRESSURE (mmHg or psig @ 70°F): 110psig
VAPOR DENSITY (AIR=1): Heavier SPECIFIC GRAVITY (H₂O=1): ~0.86
SOLUBILITY IN WATER % BY WT.: ~98 VOC CONTENT % BY WT.: 60-65 %
EVAPORATION RATE (BUTYL ACETATE=1): Slower than
APPEARANCE AND ODOR: Colorless liquid with faint alcoholic odor

SECTION FOUR - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Not determined FLAMMABLE LIMITS: UEL 36.0 LEL 6.0
EXTINGUISHING MEDIUM: Dry chemical, CO₂, alcohol foam, water spray. Do not use a direct water stream.
FIRE AND EXPLOSION HAZARD DATA
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. 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 product and vapor and protect personnel attempting to stop the leak. Do not use direct water stream.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Firefighters should wear SCBAs 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. This product is flammable and the flame is invisible in daylight. Methanol-water mixtures will burn unless very dilute; mixtures with 25% or more methanol are "OSHA" Class 1 flammable liquids.

SECTION FIVE - REACTIVITY DATA

STABILITY: Stable, avoid open flames, sources of extreme heat.

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SECTION FIVE - REACTIVITY DATA (continued)

INCOMPATIBILITY: Reacts vigorously with strong oxidizers, lead perchlorate and perchloric acids.
HAZARDOUS DECOMPOSITION PRODUCTS: May liberate carbon monoxide or carbon dioxide.
HAZARDOUS POLYMERIZATION: Will not occur.

SECTION SIX - HEALTH HAZARD DATA

EFFECTS OF OVER EXPOSURE

EYE CONTACT: Vapors will irritate the eyes. Liquid and mists can severely irritate or damage the eyes and cause corneal burns.
SKIN CONTACT: Brief contact may dry the skin, or cause burning or stinging sensation. Prolonged or repeated contact may irritate the skin causing dermatitis.
INGESTION: Swallowing large quantities causes headaches, nausea, vomiting, stomach cramps, and diarrhea, and perhaps unconsciousness, or death. Swallowing large volumes of ethylene glycol can cause severe kidney damage.
Cannot be made nonpoisonous.
INHALATION: Vapors and mists irritate the nose and throat. Inhalation of higher concentrations may cause headaches, vomiting, and coma. Inhalation of very high concentrations or prolonged exposure may cause unconsciousness or death.

SYSTEMIC AND OTHER EFFECTS: Human health effects of overexposure by inhalation, ingestion, or skin or eye contact may include nonspecific discomfort such as nausea, headache, or weakness. Temporary nervous system depression with anesthetic effects such as dizziness, headache, confusion, incoordination, and loss of consciousness or blindness. Higher exposures may lead to abnormal liver function as detected by laboratory tests; abnormal kidney function as detected by laboratory tests; or fatality from gross overexposure. Ingestion of as little as 60 mL of Methanol may cause blindness or fatality. No evidence of reproductive effects has been reported for humans. Skin permeation can occur in amounts capable of producing system toxicity.
GENERAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Persons with pre-existing diseases of the retinal or liver may have increased susceptibility to the toxicity of excessive exposures.

EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Immediately flush eyes with plenty of water for 15 minutes, lifting the upper and lower eyelids occasionally. Get immediate medical attention.
SKIN CONTACT: Immediately wash skin with soap and water. Remove contaminated clothing and shoes, and launder before reuse. Get medical attention if irritation persists after washing.
INHALATION: Remove to fresh air. Give artificial respiration if not breathing. If breathing is difficult, give CPR. Get immediate medical attention.
INGESTION: If conscious, immediately induce vomiting by giving two glasses of water and sticking finger down throat. Get immediate medical attention. Do not give anything by mouth to an unconscious or convulsing person. Keep the victim's head below hips while vomiting so victim does not breathe the vomitus into his lungs.

SECTION SEVEN - ENVIRONMENTAL AND DISPOSAL INFORMATION

ACTION TO TAKE FOR SPILLS/LEAKS: Wear protective equipment including rubber boots, rubber gloves, rubber apron, and a self-contained breathing apparatus in pressure demand mode or a supplied-air respirator. If the spill or leak is small, a full facepiece air-purifying cartridge respirator equipped for organic vapors may be satisfactory. In any event, always wear eye protection. Extinguish all ignition sources and ensure that all handling equipment is electrically grounded. For small spills or drips, mop or wipe up, and dispose of in DOT approved waste containers. For large spills, contain by diking with soil or other inorganic non-combustible absorbent material and then pump into DOT approved waste containers; or absorb with non-combustible sorbent material, place residue in DOT approved waste containers. Keep out of sewers, storm drains, surface waters, and soil. Comply with all applicable governmental regulations on spill reporting, and handling and disposal of waste.

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SECTION SEVEN - ENVIRONMENTAL AND DISPOSAL INFORMATION (continued)

WASTE DISPOSAL METHOD: Dispose of contaminated product and materials used in cleaning spills or leaks in a manner approved for this material. Consult appropriate federal, state, and local regulatory agencies to ascertain proper disposal procedures.

NOTE: Empty containers can have residues, gases and mists and are subject to proper waste disposal as above.

SECTION EIGHT - HANDLING AND STORAGE PRECAUTIONS

Store in tightly sealed containers. Keep away from heat, sparks, and flames. Store in a cool, dry, well-ventilated place away from incompatible materials. Vent containers, if needed, on extremely warm days to relieve pressure. Electrically ground all equipment when handling this product and use only non-sparking tools. Keep container tightly closed when not in use. Do not store in direct sunlight, above 120°F, or discard in home trash compactor. Do not use pressure to empty container. Do not apply flames or other ignition sources to container even when empty, because container may contain flammable residue. Wash thoroughly after handling. Do not get in eyes, on skin or on clothing.

SECTION NINE - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): If use conditions generate vapors or mists, wear a NIOSH approved respirator appropriate for those emission levels. Appropriate respirators may be a full facepiece or a half mask air purifying cartridge respirator equipped for organic vapors/mist, a self-contained breathing apparatus in the pressure demand mode, or a supplied air respirator. VENTILATION: Local mechanical exhaust ventilation capable of maintaining emissions at the point of use below the pel/tlv. Protective gloves: any lined non-permeable rubber gloves. EYE PROTECTION: Chemical splash goggles. Other protection equipment: non-permeable clothing to protect all skin from liquid contact.

SECTION TEN - REGULATORY INFORMATION

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

CHEMICAL	CAS NUMBER	CONCENTRATION %
Methanol	67-56-1	63
Ethylene Glycol	107-21-1	9

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
Methanol	67-56-1	63	5000	
Sodium Nitrite	7632-00-0	1	100	

CALIFORNIA PROPOSITION 65 NO

MASSACHUSETTS RIGHT TO KNOW: YES

Ethylene Glycol	107-21-1	9.0
Carbon Dioxide	124-38-9	2.5
Methanol	67-56-1	63.0

PENNSYLVANIA RIGHT TO KNOW: YES

Ethylene Glycol	107-21-1	9.0
Carbon Dioxide	124-38-9	2.5
Methanol	67-56-1	63.0

NEW JERSEY RIGHT TO KNOW: YES

Ethylene Glycol	107-21-1	9.0
Carbon Dioxide	124-38-9	2.5
Methanol	67-56-1	63.0

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SECTION TEN - REGULATORY INFORMATION (continued)

TOXIC SUBSTANCES CONTROL ACT (TSCA) STATUS: Listed

CALIFORNIA VOC'S: 64% by weight

NFPA RATING AS AN AEROSOL: Level Three (3) Aerosol

HMIS: Health 2 Reactivity 0 Flammability 4

SARA HAZARD CATEGORIES AND LISTS

PRODUCT HAZARD CATEGORIES

CHRONIC HEALTH: Yes

ACUTE HEALTH: Yes

FIRE HAZARD: Yes

PRESSURE HAZARD: Yes

REACTIVITY HAZARD: No

LISTS

EXTREMELY HAZARDOUS SUBSTANCE: No

CERCLA HAZARDOUS SUBSTANCE: Yes

TOXIC CHEMICAL: Yes

CARCINOGENITY CHEMICAL IARC NTP OSHA

Not Listed

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