

AIROSOL COMPANY, INC.
MCKAY CHEMICALS **MECHANICS BRAND**
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MATERIAL SAFETY DATA SHEET

EMERGENCY INFORMATION

MEDICAL: 1-800-633-9576

TRANSPORTATION: 1-800-535-5053

SECTION ONE

PRODUCT NAME: **McKAY SURE-START ENGINE STARTING FLUID**

PRODUCT CODE: **51209**

ISSUE DATE: 09/27/91 REVISED: 8/1/2006, Revised 3/26/2009

SECTION TWO - HAZARDOUS COMPONENTS

HAZARDOUS COMPONENTS

	EXPOSURE LIMITS				
	OSHA	ACGIH	OTHER	%	CAS NO
Heptane	400 ppm	400 ppm	85 ppm(1)	75-80	142-82-5
Diethyl Ether	400 ppm	400 ppm	500 ppm(2)	15-20	60-29-7
Carbon Dioxide	5000 ppm	5000 ppm	15000 ppm(2)	3-4	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: (148-225°F)

VAPOR PRESSURE (mmHg or psig @ 70°F): 110 PSIG

VAPOR DENSITY (AIR=1): Greater Than

SOLUBILITY IN WATER % BY WT.: Not Soluble

VOC CONTENT % BY WT.: 96.5

SPECIFIC GRAVITY (H₂O=1): 0.69-0.71

EVAPORATION RATE (BUTYL ACETATE=1): faster than

APPEARANCE AND ODOR: Colorless Liquid With Ether-Like Odor

SECTION FOUR - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: <0°F FLAMMABLE LIMITS: UEL 36.5 % LEL 1.2 %

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 relighted 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 the ground away from the 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, selected amines, strong acids or bases.

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

HAZARDOUS POLYMERIZATION: Will not occur.

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SECTION SIX - HEALTH HAZARD DATA

EFFECTS OF OVER EXPOSURE

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..

SKIN ABSORPTION: May be absorbed if prolonged and repeated contact occur.

INGESTION: Not likely as an aerosol but, if swallowed, it can be harmful or fatal. If more than several mouthfuls are swallowed, abdominal discomfort, nausea, and diarrhea may occur. Aspiration may occur during swallowing or vomiting resulting in lung damage.

INHALATION: May be harmful or fatal if inhaled. Severely irritating and damaging to the central nervous system and to the lungs. Considered a narcotic at high concentrations. Can cause vertigo, and uncoordinaiton. Respiratory irritation may occur in high concentrations, and is capable of causing intoxication, drowsiness, stupor, and unconsciousness. Vapors or mist may cause irritation to nose, throat, headache, nausea, vomiting, dizziness, drowsiness, euphoria, loss of coordination and disorientation. In poorly ventilated areas or confined spaces, unconsciousness and asphyxiation may result.

SYSTEMIC AND OTHER EFFECTS: Prolonged or repeated overexposure may result in the absorption of potentially harmful amounts of material.

EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: In case of contact, immediately flush eyes with large amounts of water lifting upper and lower lids to insure complete rinsing. If irritation or other symptoms persist, call a physician.

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

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. Give one to two glasses of water. Never give anything by mouth to an unconscious person. Call 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.

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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 %
None listed		

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
Diethyl Ether	60-29-7	15-20	100

CALIFORNIA PROPOSITION 65 None Listed

MASSACHUSETTS RIGHT TO KNOW: Yes

Heptane	142-82-5	75-80
Diethyl Ether	60-29-7	15-20
Carbon Dioxide	124-38-9	3-4

PENNSYLVANIA RIGHT TO KNOW: Yes

Heptane	142-82-5	75-80
Diethyl Ether	60-29-7	15-20
Carbon Dioxide	124-38-9	3-4

NEW JERSEY RIGHT TO KNOW: YES

Heptane	142-82-5	75-80
Diethyl Ether	60-29-7	15-20
Carbon Dioxide	124-38-9	3-4

TOXIC SUBSTANCES CONTROL ACT (TSCA) STATUS: Listed

CALIFORNIA VOC'S: 96.5%

NFPA RATING AS AN AEROSOL: LEVEL 3

HMIS: Health 2 Reactivity 0 Flammability 4

CARCINOGENICITY	CHEMICAL	IARC	NTP	OSHA
None Listed				

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