

AIROSOL COMPANY, INC.
MCKAY CHEMICALS **MECHANICS BRAND**
1101 Illinois, PO Box 120, Neodesha KS 66757 - Phone 620-325-2666

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: McKay Fuel Injection System Cleaner
PRODUCT CODE: 50122

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: Airosol Company, Inc.
ADDRESS: PO Box 120, Neodesha KS 66757
EMERGENCY PHONE: 1-800-535-5053
INFORMATION PHONE: 1-800-633-9576
DATE REVISED: 11/4/2005, Revised 3/26/2009

SECTION 2 - COMPOSITION /INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	AMOUNT
Aliphatic Hydrocarbons (Stoddard Type)	8052413	75.0 – 97.7 %Weight
1,3,5 – Trimethylbenzene	108678	>1.0 %Weight
1,2,4 – Trimethylbenzene	95636	>1.0 %Weight
Xylene	1330207	>3.0 %Weight
Ethylbenzene	100414	>1.0 %Weight
Base Oil, Distillates, Hydrotreated, Petroleum Hydrocarbon	Mixture	>20.0 % Weight
Additives, Non-Hazardous in finished product	Mixture Secret	0.3 – 15.0 %Weight

The BASE OIL may be a mixture of the following: CAS 64741884, CAS 64741895, CAS 64741964, CAS 64741975, CAS 64742014, CAS 64742525, CAS 64742536, CAS 64742547, CAS 64742558, CAS 64742570, CAS 64742627.

The ADDITIVES are a mixture of confidential ingredients permitted by 29 CFR 1910.1200 and various State Right to Know Laws. In the event of medical emergency, specific chemical information will be disclosed to a treating physician or nurse.

SECTION 3 - HAZARD IDENTIFICATION

IMMEDIATE HEALTH EFFECTS

Eye: Contact with the eyes causes severe irritation. Symptoms may include pain, tearing, reddening, swelling, and impaired vision.

Skin: Toxic; may be harmful or fatal in contact with skin. Contact with the skin causes irritation. Skin contact may cause drying or defatting of the skin. Symptoms may include pain, itching, discoloration, swelling, and blistering.

Ingestion: May be harmful if swallowed. Because of its low viscosity, this material can directly enter the lungs, if swallowed, or if subsequently vomited. Once in the lungs it is very difficult to remove and can cause severe injury or death. May be irritating to mouth, throat, and stomach. Symptoms may include pain, nausea, vomiting, and diarrhea.

Inhalation: Toxic; may be harmful or fatal if inhaled. The vapor fumes from this material may cause respiratory irritation. Symptoms of respiratory irritation may include coughing and difficulty breathing. Breathing this material at concentrations above the recommended exposure limits may cause central nervous system effects. Central nervous system effects may include headache, dizziness, nausea, vomiting, weakness, loss of coordination, blurred vision, drowsiness, confusion, or disorientation. At extreme exposures, central nervous system effects may include respiratory depression, tremors or convulsions, loss of consciousness, coma or death.

DELAYED OR OTHER HEALTH EFFECTS

Cancer: Contains material that may cause cancer in laboratory animals, but the available information is inadequate to determine if this material can cause cancer in humans. Contains naphthalene, which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC). Contains ethylbenzene which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

Target Organs: Contains material that causes damage to the following organs if swallowed or inhaled at concentrations above the recommended exposure limit: red blood cells (hemolysis). Symptoms of hemolysis: nausea, vomiting, diarrhea, abdominal pain, dark urine and stool. Contains material that may cause damage to the following organ(s) if swallowed based on animal data: Eyes (cataracts). Contains material that may cause damage to the following organ(s) following repeated ingestion based on animal data: Liver Thyroid.

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SECTION 3 - HAZARD IDENTIFICATION (CONTINUED)

Medical Conditions Aggravated by Exposure: Exposure to naphthalene may aggravate existing blood disorders. Individuals with congenital erythrocyte glucose-6-phosphate dehydrogenase deficiency may be particularly susceptible to the hemolytic effects of naphthalene.

See Section 11 for additional information. Risk depends on duration and level of exposure.

SECTION 4 - FIRST AID MEASURES

Eye: Flush eyes with water immediately while holding the eyelids open. Remove contact lenses, if worn, after initial flushing, and continue flushing for at least 15 minutes. Get immediate medical attention.

Skin: Wash skin with water immediately and remove contaminated clothing and shoes. Get immediate medical attention. To remove material from skin, apply waterless hand cleaner, mineral oil, or petroleum jelly. Then wash with soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

Ingestion: If swallowed, get immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

Inhalation: During an emergency, wear an approved, positive pressure air-supplying respirator. Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

Note to Physicians: Ingestion of this product or subsequent vomiting may result in aspiration of light hydrocarbon liquid, which may cause pneumonitis.

SECTION 5 - FIRE FIGHTING MEASURES

FIRE CLASSIFICATION

OSHA Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.

NFPA RATINGS: Health: 2 Flammability: 2 Reactivity: 0

FLAMMABLE PROPERTIES:

Flashpoint: (Pensky-Martens Closed Cup) >60 °C (>139 °F)

Autoignition: No Data Available

Flammability (Explosive) Limit (%by volume in air): Lower: No Data Available Upper: No Data Available

EXTINGUISHING MEDIA:

Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

PROTECTION OF FIRE FIGHTERS:

Fire Fighting Instructions: For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion. Combustion may form oxides of: Nitrogen.

SECTION 6 - ACCIDENTAL RELEASE INFORMATION

Protective Measures: Eliminate all sources of ignition in the vicinity of the spill or released vapor. If this material is released into the work area, evacuate the area immediately. Monitor area with combustible gas indicator.

Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. All equipment used when handling the product must be grounded. A vapor suppressing foam may be used to reduce vapors. Use clean non-sparking tool to collect absorbed material. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

Reporting: Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

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SECTION 7 – HANDLING AND STORAGE

Precautionary Measures: Liquid evaporates and forms vapor (fumes) which can catch fire and burn with explosive force. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches. Fire hazard is greater as liquid temperature rises above 85F. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Wash thoroughly after handling. Do not breath vapor or fumes. Keep out of reach of children.

General Handling Information: Avoid Contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating an accumulation of electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids', National Fire Protection Association (NFPA 77, 'Recommended Practice or Static Electricity', and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents'.

General Storage Information: DO NOT USE OR STORE near heat, sparks, flames, or hot surfaces. USE AND STORE ONLY IN WELL VENTILATED AREA. Keep container closed when not in use.

Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) 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 and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTIVE EQUIPMENT

GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see Section III), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

ENGINEERING CONTROLS:

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT:

Eye/Face Protection: Wear protective equipment to prevent eye contact. Selection of protective equipment may include safety glasses, chemical goggles, face shields, or a combination depending on the work operations conducted.

Skin Protection: Wear protective clothing to prevent skin contact. Selection of protective clothing may include gloves, apron, boots, and complete facial protection depending on operations conducted. Suggested materials for protective gloves include: Silver Shield, Viton.

Respiratory Protection: Determine if airborne concentrations are below the recommended occupational exposure limits for jurisdiction of use. If airborne concentrations are above the acceptable limits, wear and approved respirator that provides adequate protection from the material, such as: Air-Purifying Respirator for Organic Vapors. Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

Occupational Exposure Limits:

Component	Agency	TWA	STEL	Ceiling	Notation
Ethylbenzene	ACGIH	100mg/m3	545mg/m3		A3
Ethylbenzene	OSHA PEL/VPEL	100mg/m3	435mg/m3		
Aliphatic Hydrocarbons (Stoddard Type)	ACGIH	100mg/m3			
Aliphatic Hydrocarbons (Stoddard Type)	OSHA PEL/VPEL	500/100mg/m3			Skin
Xylene	ACGIH TLV	100mg/m3	655mg/m3		Skin A3
Xylene	OSHA PEL/VPEL	100mg/m3	655mg/m3		
Xylene	NIOSH REL		435 mg/m3	868mg/m3	

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Color: No Data Available

Physical State: Liquid

Odor: Hydrocarbon Odor

PH: Not Applicable

Vapor Pressure: No Data Available

Vapor Density (Air=1): No Data Available

Boiling Point: No Data Available

Solubility: Insoluble

Freezing Point: No Date Available

Specific Gravity: 0.882 @ 15.6 °C (60 °F)

Viscosity: >2.4 cSt @ 40 °C (104 °F)

Coefficient of Therm. Expansion / °F: No Data Available

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Incompatibility with Other Materials: May react with strong oxidizing agents, such as chlorates, nitrates, and peroxides, etc.

Hazardous Decomposition Products: Hydrogen Sulfide (Temperatures >149 °F (65 °C))

Hazardous Polymerization: Hazardous polymerization will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

IMMEDIATE HEALTH EFFECTS:

Eye Irritation: The eye irritation hazard is based on evaluation of data similar for materials of product components.

Skin Irritation: The skin irritation hazard is based on evaluation of data for similar materials of product components.

Skin Sensitization:

Acute Dermal Toxicity: The acute dermal toxicity hazard is based on evaluation of data similar materials or product components.

Acute Oral Toxicity: The acute oral toxicity hazard is based on evaluation of data similar materials or product components.

Acute Inhalation Toxicity: The acute inhalation toxicity hazard is based on evaluation of data similar materials or product components.

ADDITIONAL TOXICOLOGY INFORMATION:

COMPONENT	ACUTE ORAL LD50	ACUTE DERMAL LD50	ACUTE INHALATION LC50
Ethylbenzene	No Data Available	No Date Available	17,360mg/m3 (RAT)(4H)
Xylene	4.3g/kg (RAT)	>3.95ml/kg (RABBIT)	6,700 PPM (RAT)(4H)
1,3,5 – Trimethylbenzene	No Data Available	No Data Available	24mg/m3 (RAT)(4H)
1,2,4 – Trimethylbenzene	6.0 g/kg (RAT)	No Data Available	24mg/m3 (RAT)(4H)

Cancer: Ethylbenzene has indicated that lifetime exposure of rats and mice resulted in increases in certain types of cancer at 750 ppm, including kidney tumors in rats and lung cancer in mice. Incidences of testicular adenoma were increase along with increased incidences of thyroid effects in rats at 750 ppm; pituitary effects were observed in female mice at 250 ppm. These effects were not observed in animals exposed to ethylbenzene at 75 ppm.

Mutagen: No Data

SECTION 12 – ECOLOGICAL INFORMATION

EXOTOXICITY

The toxicity of the material to aquatic organisms has not been evaluated. Consequently, the material should be kept out of sewage and drainage systems and all bodies of water

ENVIRONMENTAL FATE

This material is not expected to be readily biodegradable.

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SECTION 13 –DISPOSAL INFORMATION

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed waste disposal facility.

SECTION 14 – TRANSPORTATION INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g. technical name) and mode-specific or quantity-specific shipping requirements.

DEPARTMENT OF TRANSPORTATION:

Package Classification: ORM-D

DOT Shipping Name: Consumer Commodity

BULK CLASSIFICATION:

DOT Shipping Name: FLAMMABLE LIQUID, N.O.S.

DOT Hazard Class: 3 (Flammable Liquid)

DOT Identification Number: UN 1993

DOT Packing Group: III

IMO/IMDG Shipping Name: FLAMMABLE LIQUID, N.O.S.

IMO/IMDG Hazard Class: 3 (Flammable Liquid)

IMO/IMDG Identification Number: UN1993

IMO/IMDG Packing Group: 3

SECTION 15 – REGULATORY INFORMATION

EPCRA 311/312 Categories:	1. Immediate (Acute) Health Effects:	YES
	2. Delayed (Chronic) Health Effects:	YES
	3. Fire Hazard:	YES
	4. Sudden Release of Pressure Hazard:	NO
	5. Reactivity Hazard:	NO

CHEMICAL INVENTORIES:

AUSTRALIA: All the components of this material all listed on the Australian Inventory of Chemical Substances (AICS).

CANADA: All the components of this material are on the Canadian Domestic Substances List (DSL).

EUROPEAN UNION: All the components of this material are in compliance with the EU Seventh Amendment Directive 92/32/EEC.

JAPAN: All the components of this product are on the Existing & New Chemical Substances (ENCS) inventory in Japan, or have an exemption from the listing.

KOREA: This material contains components that require additional notification before sale or importation into Korea.

PHILIPPINES: All the components of this product are listed on the Philippine Inventory of Chemicals and Chemical Substances (PICCS).

UNITED STATES: All of the components of this material are on the Toxic Substance Control Act (TSCA) Chemical Inventory

STATE REGULATORY INFORMATION:

THE FOLLOWING CHEMICALS ARE SPECIFICALLY LISTED BY INDIVIDUAL STATES; OTHER PRODUCT SPECIFIC HEALTH AND SAFETY DATA IN OTHER SECTIONS OF THE MSDS MAY ALSO BE APPLICABLE FOR STATE REQUIREMENTS. FOR DETAILS ON YOUR REGULATORY REQUIREMENTS YOU SHOULD CONTACT THE APPROPRIATE AGENCY IN YOUR STATE.

STATE LISTED COMPONENT	CAS NO.	PERCENT	STATE CODE
1,2,4 – Trimethyl Benzene	95-63-6	<1	MA, NJ, PA, CA, MN
1,3,5 – Trimethyl Benzene	108-67-8	<1	MA, NJ
Xylene	95-47-6	<3	CA, FL, MA, NJ, PA, RI, IL

CA=California Haz. Subst. List
CA65C, CA65R, CA65C/R = California Safe Drinking Water and Toxics Enforcement Act of 1986 OR Proposition 65 List
CT=Connecticut Toxic Subst. List
FL=Florida Haz. Subst. List
IL=Illinois Haz. Subst. List

LA=Louisiana Haz. Subst. List
MA=Massachusetts Subst. List
ME=Maine Haz. Subst. List
MN=Minnesota Haz. Subst. List
NJ=New Jersey Haz. Subst. List
PA=Pennsylvania Haz. Subst. List
RI=Rhode Island Haz. Subst. List

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SECTION 15 – REGULATORY INFORMATION (CONTINUED)

WHMIS CLASSIFICATION:

Class B, Division 3: Combustible Liquids
 Class D, Division 1, Subdivision B: Toxic Material – Acute Lethality
 Class D, Division 2, Subdivision A: Very Toxic Material – Carcinogenicity
 Class D, Division 2, Subdivision B: Toxic Material – Chronic Toxic Effects Skin or Eye Irritation

SECTION 16 - DISCLAIMER

NFPA RATINGS: Health: 2 Flammability: 2 Reactivity: 0

HMIS RATINGS: Health: 2 Flammability: 2 Reactivity: 0

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:-Personal Protection Equipment Index recommendation,*-Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

REVISION STATEMENT: Revision updates many sections and the MSDS should be read in its entirety.

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV – Threshold Limit Value	TWA – Time Weighted Average
STEL – Short-term Exposure Limit	PEL – Permissible Exposure Limit
ACGIH – American Conference of Govt. Industrial Hygienists	CAS – Chemical Abstract Service Number
API – American Petroleum Institute	IMO/IMDG – International Maritime Dangerous Goods Code
CHA – Champion LLC	MSDS – Material Safety Data Sheet
DOT – Department of Transportation (USA)	NFPA – National Fire Protection Association (USA)
IARC – International Agency for Research on Cancer	NTP – National Toxicology Program (USA)
OSHA – Occupational Safety and Health Administration	

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (z400.1)

DISCLAIMER: The information in this document is believed to be correct as of the date issued. However, no warranty of merchantability, fitness for any particular purpose, or any other warranty is expressed or to be implied regarding the accuracy or completeness of this information or the product, the safety of this product, or the hazards related to its use. This information and product are furnished "as is" and on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use thereof.