

MATERIAL SAFETY  
DATA SHEET

Four Star Chemical  
3137 26th Street  
Los Angeles Ca 90023  
(323) 266-7111

24-HOUR  
EMERGENCY  
TELEPHONE  
(800) 255-3924

E CHEM  
MATRIX FORMULA #5 BRAKE CLN

PRODUCT ID NO.: 34123

PAGE: 1

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EFFECTIVE DATE: 06/01/13  
PRODUCT ID NO.: 34123

DATE PREPARED: 06/05/13

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This Material Safety Data Sheet contains environmental, health and toxicology information for your employees. Please make sure this information is given to them. It also contains information to help you meet community Right To Know emergency response reporting requirements under SARA TITLE III and many other laws. If you resell this product, this MSDS must be given to the buyer or the information incorporated in your MSDS.

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This MSDS complies with 29 CFR 1910.1200  
(The Hazard Communication Standard)

===== SECTION I - PRODUCT IDENTIFICATION =====

PRODUCT DESCRIPTION: E CHEM, MATRIX FORMULA #5 BRAKE CLN  
PROPER SHIPPING NAME: AEROSOLS, FLAMMABLE CLASS: 2.1 UN NO.: 1950 LQ  
NFPA CODES: HEALTH - 2 FLAMMABILITY - 3 CORROSIVE - 0 REACTIVITY - 0

===== SECTION II - COMPONENTS =====

ACETONE \* PEL: TWA 1000 PPM  
CAS #: 67-64-1 TLV: TWA 750 PPM STEL 1000 PPM  
  
CARBON DIOXIDE COMPRESSED GAS PEL: 5,000 MOLAR PPM  
CAS #: 124-38-9 TLV: 30,000 MOLAR PPM

"\*" If present, IARL, NTP and OSHA carcinogens and chemical subject to this reporting requirements of SARA TITLE III, SECTION 313 are identified in this section.

===== SECTION III - PHYSICAL DATA =====

BOILING POINT FOR PRODUCT: NOT DETERMINED  
VAPOR PRESSURE FOR PRODUCT: < 85 psi @ 65 deg F.  
VAPOR DENSITY FOR PRODUCT: NOT DETERMINED  
SPECIFIC GRAVITY: LIQ:0.76 - 0.85.  
V.O.C.(GRAMS PER LITER): MEETS C.A.R.B.  
WATER SOLUBILITY: NIL  
APPEARANCE: CHRRY SOLVENT SPRAY

===== SECTION IV - FIRE AND EXPLOSION DATA =====

FLASH POINT(TCC): LEVEL 3 AEROSOL  
EXPLOSIVE LIMIT (PRODUCT): LOWER - 1.1 UPPER - 7.5  
SEC04.45  
FIRE AND EXPLOSION HAZARDS: This product releases Flammable Vapors at well below ambient temperatures and readily forms flammable mixtures with

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PAGE: 2

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===== SECTION IV - FIRE AND EXPLOSION DATA (CONTINUED) =====

air exposed to an ignition source. It will burn in the open or be explosive in confined spaces. Its vapors are heavier than air and may travel long distances to a point of ignition, and then flash back. Alkaline/chlorine gas mixtures have produced explosions.

EXTINGUISHING MEDIA: Dry Chemical. CO2. Halogenated Extinguishing Agent. Stop Gas Flow.

SPECIAL FIREFIGHTING PROCEDURES: Gas fires should not be extinguished unless the gas flow can be stopped immediately. Allow the fire to burn itself out. If the source cannot be shut off immediately, all equipment and surfaces exposed to the fire should be cooled with water to prevent over-heating, flash-backs, or explosions. Control fire until gas supply can be shut off. Use proper protective equipment. Use fresh air respirator when exposure to hazardous concentrations of toxic gases is possible.

FIRE FIGHTING:

Use water spray to cool fire exposed surfaces and to protect personnel. Isolate "fuel" supply from fire. Use foam, dry chemical, or water spray to extinguish fire. Avoid spraying water directly into storage containers due to danger of boiling over. This liquid is volatile and gives off invisible vapors. Either the liquid or vapor may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode.

===== SECTION V - HEALTH HAZARD DATA =====

05.20

GENERAL: This material is an aspiration hazard and defats the skin. Breathing vapors of high concentrations may cause CNS depression.

EYE CONTACT: Slightly irritating but does not injure eye tissue.

SKIN CONTACT: Low order of toxicity. Frequent or prolonged contact may irritate and cause dermatitis. Skin contact may aggravate an existing dermatitis condition.

INHALATION: High vapor/aerosol concentrations (greater than approximately 100 ppm) are irritating to the eyes and the respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death.

INGESTION: Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly minimal toxicity.

FIRST AID

EYE CONTACT: Flush eyes with large amounts of water until irritation subsides. If irritation persists, get medical attention.

SKIN CONTACT: Flush with large amounts of water; use soap if available. Remove grossly contaminated clothing, including shoes, and launder before reuse.

INHALATION: Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention

INGESTION: If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt

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PAGE: 3

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===== SECTION V - HEALTH HAZARD DATA (CONTINUED) =====  
medical attention.

PRECAUTIONS

SPECIAL PRECAUTIONS: Health studies have shown that many hydrocarbons pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.

PERSONAL PROTECTION: For open systems where contact is likely, wear safety glasses with side shields, long sleeves, and chemical resistant gloves. Where concentrations in air may exceed the limits, work practice or other means of exposure reduction are not adequate, NIOSH/MSHA approved respirators may be necessary to prevent overexposure by inhalation.

VENTILATION: The use of mechanical dilution ventilation is recommended whenever this product is used in a confined space, is heated above ambient temperatures, or is agitated.

(PROPOSITION 65):SEC05

State of California SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986.

WARNING: IN ACCORDANCE WITH PROP 65, THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS AND OTHER REPRODUCTIVE HARM.

===== SECTION VI - REACTIVITY DATA =====

06.20

STABILITY: Stable

CONDITIONS TO AVOID: Temperatures above 130 degree F.

HAZARDOUS POLYMERIZATION: Will not occur

MATERIALS AND CONDITIONS TO AVOID INCOMPATIBILITY: Strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: None

===== SECTION VII - SPILL OR LEAK PROCEDURES =====

SEC07.45

STEPS TO BE TAKEN IN CASE CONTAINER IS PUNCTURED AND MATERIAL IS RELEASED:

Clean up area by mopping or with absorbant materials and place in closed container for disposal. Consult Federal, State, and local disposal authorities.

WASTE DISPOSAL METHOD: Consult local authorities for proper waste disposal procedures. Empty de-pressurized containers can not be reused. Cans which are pressurized or contain liquid must be disposed of in a permitted waste management facility. Consult Federal, State, and local disposal authorities for approved procedures.

===== SECTION VIII - PROTECTIVE EQUIPMENT TO BE USED =====

SEC08.20

VENTILATION REQUIREMENT: Use adequate level exhaust ventilation. Note: Where carbon monoxide may be generated, special ventilation may be required.

Local exhaust recommended when appropriate to

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PAGE: 4

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SECTION VIII - PROTECTIVE EQUIPMENT TO BE USED (CONTINUED) ====  
control employee exposure.

RESPIRATORY PROTECTION: Based on contamination level and working limits of  
the respirator, use a respirator approved by NIOSH/MSHA.

EYES: Face shield and goggles or chemical goggles should be worn.

GLOVES: Impervious gloves should be worn. Gloves contaminated with the  
product should be discarded. Polyfluorinated polyethylene has  
been suggested.

OTHER CLOTHING EQUIPMENT: Standard work clothing.  
Standard work shoes; discard if shoes can not be decontaminated.  
Store contaminated clothing in well ventilated cabinets or closed  
containers. Wash contaminated clothing and dry before reuse.

RESPIRATORY PROTECTION: In situations where vapor concentrations exceed the  
recommended exposure limits, a NIOSH approved organic vapor cartridge  
or air-supplying respirator should be worn.

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SECTION IX - SPECIAL PRECAUTIONS OR OTHER COMMENTS =====  
SEC09.45

HANDLING STORAGE AND DECONTAMINATION PROCEDURES: When utilizing containers  
follow standard safety practices for handling chemicals.

GENERAL COMMENTS: Do not store at temperatures above 120 degree F. Odor is  
not an adequate warning of potentially hazardous concentrations in  
air. Releases of these gases may cause a flammable atmosphere with  
explosion potential.

PRECAUTIONARY STATEMENTS: Please read and follow the directions on the  
product label. They are your best guide to using this product in  
the most effective way, and give the necessary safety precautions  
to protect your health.

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ADDITIONAL COMMENTS =====  
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CALIFORNIA AIR RESOURCE BOARD: This product complies with "REGULATION  
FOR REDUCING VOLATILE ORGANIC COMPOUND EMISSIONS FROM CONSUMER PRODUCTS"  
for the State of California.

Consumer Product Safety Act Certificaton.

This product was evaluated by Four Star Chemical and is certified to be  
in compliance with the provisions of the Consumer Product Safety Act,  
the Federal Hazardous Substances Act, and the Poison Prevention Packaging  
Act, as applicable. This product was manufactured at the  
location identified on the MSDS. The date of manufacture is stamped on  
the product container. No testing is required to certify compliance  
with the above mentioned regulation.

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PAGE: 5

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===== ADDITIONAL COMMENTS (CONTINUED) =====

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The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.