

**ADVERTS**

EVALUATION OF THE METABOLISM OF METHYLENE CHLORIDE IN MICE INDICATED THAT TUMOR FORMATION IN MICE IS THE RESULT OF THEIR METABOLISM BY A PARTICULAR PATHWAY AT EXPOSURE CONCENTRATIONS GREATER THAN 500 PPM. THIS PATHWAY DOES NOT PLAY A SIGNIFICANT ROLE IN METABOLISM BY MICE AT EXPOSURE LEVELS LESS THAN 500 PPM. THE METABOLIC PATHWAY ASSOCIATED WITH CARCINOGENICITY IS LESS ACTIVE IN RATS, AND APPEARS TO PLAY A NEGLIGIBLE ROLE IN METABOLISM BY HAMSTERS AND HUMANS AT THESE EXPOSURE LEVELS. THERE IS A SUSPECT THAT THE MOUSE MAY BE A POOR MODEL FOR PREDICTING TOXIC EFFECTS IN HUMANS. INHALATION OF METHYLENE CHLORIDE PRODUCED LIMITED EVIDENCE OF LIVER DAMAGE IN LABORATORY MICE. THE RELEVANCE OF THESE FINDINGS TO HUMANS IS UNCERTAIN. PRE-EXISTING LIVER AND BLOOD DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS MATERIAL. PERSONS WITH PRE-EXISTING HEART DISORDERS MAY BE MORE SUSCEPTIBLE TO IRREGULAR HEARTBEATS (ARRHYTHMIA) IF EXPOSED TO HIGH CONCENTRATIONS OF THIS MATERIAL. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE (PAINTER'S SYNDROME). INTENTIONAL ABUSE BY DELIBERATELY CONCENTRATING AND INHALING THIS PRODUCT MAY BE HARMFUL OR FATAL.

**HANDLING AND STORAGE PRECAUTIONS:**

USE AND STORE THIS MATERIAL IN COOL, DRY, WELL VENTILATED AREAS AWAY FROM HEAT AND ALL SOURCES OF IGNITION. KEEP CONTAINERS CLOSED. KEEP AWAY FROM INCOMPATIBLE MATERIALS (SECTION VI).

DO NOT ENTER CONFINED SPACES SUCH AS TANKS OR PITS WITHOUT FOLLOWING PROPER ENTRY PROCEDURES SUCH AS ASTM D-4276. THE USE OF RESPIRATORY PROTECTION IS ADVISED WHEN CONCENTRATIONS EXCEED THE ESTABLISHED EXPOSURE LIMITS. WASH THOROUGHLY AFTER HANDLING. DO NOT WEAR CONTAMINATED CLOTHING OR SHOES. USE GOOD PERSONAL HYGIENE PRACTICE. EMPTY CONTAINERS RETAIN RESIDUE AND CAN BE DANGEROUS. ALL CONTAINERS SHOULD BE DISPOSED OF IN AN ENVIRONMENTALLY SAFE MANNER AND IN ACCORDANCE WITH GOVERNMENTAL REGULATIONS. NOTE: ALUMINUM EQUIPMENT SHOULD NOT BE USED FOR STORAGE AND/OR TRANSFER OF CHLORINATES.

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**MATERIAL SAFETY DATA SHEET**  
 May be used to comply with  
 OSHA's Hazard Communication  
 Standard, 29CFR 1910.2100.

**U.S. DEPARTMENT OF LABOR**  
 Occupational Safety and Health  
 Administration (Non-Mandatory Form)

001-ANTI-SPATTER(AEROSOL-O-1620-16 EASLE BRAND)

KCI, INC.  
 3710 N. DAVIDSON STREET  
 CHARLOTTE, N.C. 28205

CHEMTRAC(24-HOUR)800-424-9300  
 INFORMATION 704-372-8433  
 DATE PREPARED: 01/01/91

**SECTION II-HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**  
 Hazardous components OSHA CEIL ACB3H TWA % (optional)

* METHYLENE CHLORIDE	CAB#75-09-2	100ppm	50ppm	75-84
CARBON DIOXIDE	CAB#124-38-9	5000PPM	5000ppm	17

\*SEE ATTACHED SHEET FOR SARA TITLE III NOTIFICATION AND ADDITIONAL HEALTH DATA.

**SECTION III-PHYSICAL/CHEMICAL CHARACTERISTICS**

Boiling Point: 104F	Specific Gravity(25C/25C)	1.32
Vapor Pressure: 390 (mmHg)	Melting Point:	N/A
Vapor Density: 2.9 (AIR=1)	Evaporation Rate:	14.50 (butyl acetate=1)

Solubility in Water: % by weight, 1.3  
 Appearance and Odor: Clear, colorless liquid. Characteristic odor.  
 % Volatile: 100

**SECTION IV-FIRE AND EXPLOSION HAZARD DATA**

Flash Point: None to Boiling.

Extinguishing Media: Dry chemical, carbon dioxide, halon, foam or water spray is recommended.

Special Firefighting Procedures: Pressure-demand, self-contained protective should be provided for protection. Storage containers exposed to fire should be kept cool with water.

Unusual Fire & Explosion Hazards: If container is not properly cooled, it may explode in heat of a fire. Vapors are heavier than air and may accumulate in low areas.

SECTION V-REACTIVITY DATA

Stability Unstable:

Stable : X

Incompatibility(Hazards to Avoid)
Avoid contact with oxygen,nitrogen,peroxide,oxidizers and
reactive metals(f.e.,aluminum,potassium,sodium,etc.)
Hazardous Decomposition or Byproducts
Combustion may yield CO,CO2,phosgene and/or HCL.
Do not breathe smoke or fumes.
Hazardous Polymerizations Conditions to Avoid
May Occur: N/A

Will Not Occur: X

SECTION VI-HEALTH HAZARD DATA

Route(s) of Entry: Inhalation: Yes Skin: Yes Ingestion: Yes
Health Hazards(Acute and Chronic)
Acute-excessive inhalation and ingestion may produce symptoms of
light-headedness to unconsciousness to death. Exposure of
skin and eyes may produce irritation.
Chronic-headache, fatigue,nausea,depression and visual disturbance.

Carcinogenicity: No-NTP Yes- IARC Monographs No-OSHA Regulated

Signs and Symptoms of Exposure: Light headedness & Nausea. Irritating to skin and eyes.

Medical Conditions Generally Aggravated by Exposure: Prolonged contact with high concentrations
can lead to serious kidney and liver damage.

Emergency and First Aid Procedures
Eyes-Flush with water for 15 minutes. Skin-wash area with soap and
water. Ingestion-Drink water, DO NOT INDUCE VOMITING. Inhalation-
remove to fresh air. If breathing has stopped,start CPR.

SECTION VII-PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material is Released or Spilled
Soak up spills with absorbent. Flush area with water. All rinsate
should be contained,sealed and labeled. Spills on areas that are not
pavement can be handled by removing the affected soil.
EPA reportable quantity is 1000 lbs.
Waste Disposal Methods
Materials resulting from clean-up may be hazardous and subject to
local, state and federal regulations.

SECTION VIII-CONTROL MEASURES
Respiratory Protection(Specify Type)
None during normal use.

Ventilation: Local exhaust to maintain TLV.
Protective Gloves: Polyfluorinated polyethylene suggested.
Eye Protection: Face shield and goggles should be worn.
Other Protective Clothing or Equipment: N/A

Work Hygienic Practices: It is suggested that a source of clean
water be available in the work area for
flushing eyes and skin. Impervious
clothing should be worn as needed.

All chemical compounds marked with an asterisk(\*) are toxic
chemicals subject to the reporting requirements of Section 313
of Title III of the Super Fund Amendments and Reauthorization
Act(SARA) of 1986 and 40 CFR Part 372. You must notify each person
to whom this mixture or trade name products is sold. This statement
must remain a part of this Material Safety Data Sheet. This state-
ment must not be detached. Any copy or redistribution of this
Material Safety Data Sheet shall include this statement.

NEW JERSEY RIGHT TO KNOW INFORMATION

(3 MOST PREDOMINANT INGREDIENTS/HAZARDOUS & NON-HAZARDOUS)
METHYLENE CHLORIDE CAS # 75-09-2
CARBON DIOXIDE CAS # 124-38-4
SOYA LECITHIN CAS # 5002-43-5

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM

HEALTH-3
FLAMMABILITY-1
REACTIVITY-1
NATIONAL FIRE PROTECTION ASSOCIATION
HEALTH-3
FLAMMABILITY-1
REACTIVITY-1
OTHER-NONE