

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)

001-1620 SOLVENT BASED ANTI-SPATTER (AEROSOL)

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

CHEMTREC (24-HOUR) 800-424-930  
INFORMATION 704-372-8435  
DATE PREPARED: JANUARY 12, 2004

SECTION II-HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous components		OSHA PEL	ACGIH TLV	%
*METHYLENE CHLORIDE	CAS#75-09-2	25ppm(8hrTWA)	50ppm(8hrTWA)	73-84
CARBON DIOXIDE	CAS#124-38-9	5000PPM	5000ppm	17

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

SECTION III-PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 104F	Specific Gravity(H2O=1): 1.32
Vapor Pressure: 390(mmHG)	Melting Point: N/A
Vapor Density: 2.9	Evaporation Rate: 14.50 (Butyl Acetate=1)

Solubility in Water: % by weight, 1.3  
Appearance and Odor: Clear, colorless liquid with a chloroform-like odor.  
VOC CONTENT: 93%

SECTION IV-FIRE AND EXPLOSION HAZARD DATA

Flash Point(Method Used)	Flammable Limits	LEL	UEL
None to boiling	% by volume	N/A	N/A

Extinguishing Media: Carbon dioxide, dry chemical or foam.  
Special Firefigting Procedures: Pressure-demand, self-contained protection  
should be provided for protection. Storage  
containers exposed to fire should be kept  
cool with water.

Unusual Fire and Explosion Hazards: At high temperatures, over-pressurization  
of containers can result.

## SECTION V-REACTIVITY DATA

Stability:	Unstable	Conditions to Avoid
		Avoid high pressure in
		aluminum systems.
	Stable X	Open flames & electrical
		arcs.

## Incompatibility(Materials to Avoid)

Avoid contact with oxygen,nitrogen,peroxide,oxidizers and reactive metals(i.e. aluminum,potassium,sodium,etc.)

## Hazardous Decomposition or Byproducts:

Combustion may yield CO,CO2,phosgene and/or HCL.

Hazardous	May Occur:	Condition to Avoid
Polymerization		N/A
	Will Not Occur:X	

## SECTION VI-HEALTH HAZARD DATA

Routes of Entry:Inhalation: Yes Skin:Yes Ingestion: Yes

## Health Hazards(Acute and Chronic)

INHALATION: In confined or poorly ventilated areas,vapors can readily accumulate and can cause unconsciousness and death. Minimal anesthetic or narcotic effects may be seen in 500-1000ppm range. Progressively higher levels over 1000ppm can cause dizziness ,drunkenness,concentrations as low as 10000ppm can cause unconsciousness and death. These high levels may also cause cardiac arrythmias. Excessive exposure may cause irritation to upper respiratory tract. Excessive exposure may cause carboxyhemoglobinemia. Carcinogenicity:\*\*YES-NTP YES-IARC MONOGRAPHS NO-OSHA REGULATED Signs and Symptoms of Exposure: Light-headedness & nausea. Irritating to the eyes and the skin.

## Medical Conditions

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

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

\*\*\* MUTAGENICITY(EFFECTS ON GENETIC MATERIAL) SEE PAGE 5.

SECTION VII-PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material Is Release or Spilled  
Spills should be soaked up with absorbent. Area should then be flushed with water. All rinsate should be containerized & labeled. Spills on areas that are not on pavement can be handled by removing the affected soils.

Waste Disposal Method:

The materials resulting from clean-up operations may be hazardous wastes, and therefore subject to local, state, & federal regulations.

Precautions to Be Taken in Handling and Storage:

Label all containers. Store containers in a cool, dry, well ventilated area.

Other Precautions:

N/A

SECTION VIII-CONTROL MEASURES

Respiratory Protection (specify Type)

None, during normal use.

Ventilation: Local Exhaust-Sufficient to maintain TLV.

Special-N/A

Mechanical (General)-N/A

Other-N/A

Protective Gloves-polyfluorinated polyethylene suggested.

Eye Protection-face shield and goggles should be worn.

Other Protective Clothing or Equipment:N/A

Work/Hygienic Practices:N/A

DOT SHIPPING: This product is classified as CONSUMER COMMODITY ORM-D.

## SARA TITLE III NOTIFICATION/INFORMATION

\*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 product is sold. This statement must remain a part of this Material Safety Data Sheet. This statement must not be detached. Any copy or redistribution of this Material Safety Data Sheet shall include this statement.

## CALIFORNIA PROPOSITION 65 INFORMATION

WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

## NEW JERSEY RIGHT TO KNOW INFORMATION

(5 MOST PREDOMINANT INGREDIENTS/HAZARDOUS & NON-HAZARDOUS)

METHYLENE CHLORIDE	CAS# 75-09-2
CARBON DIOXIDE	CAS#124-38-9
SOYA LECITHIN	CAS#8002-43-5

## HAZARDOUS MATERIALS IDENTIFICATION SYSTEM

HEALTH-2  
FLAMMABILITY-1  
REACTIVITY-1

HAZARD RATING  
4-SEVERE HAZARD  
3-SERIOUS HAZARD  
2-MODERATE HAZARD  
1-SLIGHT HAZARD  
0-MINIMAL HAZARD

## NATIONAL FIRE PROTECTION ASSOCIATION

HEALTH-2  
FLAMMABILITY-1  
REACTIVITY-1  
OTHER-NONE

4-SEVERE HAZARD  
3-SERIOUS HAZARD  
2-MODERATE HAZARD  
1-SLIGHT HAZARD  
0-MINIMAL HAZARD

\*\*COMMENTS

AN EVALUATION OF THE METABOLISM OF METHYLENE CHLORIDE IN MICE INDICATES 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. INHALATION OF METHYLENE CHLORIDE PRODUCED LIMITED EVIDENCE OF LIVER DAMAGE IN LABORATORY ANIMALS. 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 (ARRHYTHMIAS) 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 (PAINTERS SYNDROME). INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THIS PRODUCT MAY BE HARMFUL OR FATAL.

\*\*\*MUTAGENICITY(HEALTH HAZARD SECTION VI CONTINUED)

NEGATIVE OR EQUIVOCAL RESULTS HAVE BEEN OBTAINED IN MUTAGENICITY TESTS USING MAMMALIAN CELLS OR ANIMALS. THIS IS CONSISTENT WITH THE LACK OF INTERACTION WITH DNA IN RATS AND HAMSTERS. ALTHOUGH RESULTS OF AMES BACTERIAL TESTS HAVE GENERALLY BEEN POSITIVE, OVERALL THE DATA SUGGEST THAT GENOTOXIC POTENTIAL DOES NOT APPEAR TO BE A SIGNIFICANT FACTOR IN THE TOXICITY OF METHYLENE CHLORIDE.

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 V). 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 PRACTICES. 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.

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES:

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