

U.S. DEPARTMENT OF LABOR

WAGE AND LABOR STANDARDS ADMINISTRATION Bureau of Labor Standards

MATERIAL SAFETY DATA SHEET

SECTION I

MANUFACTURER'S NAME MONSANTO Co.		EMERGENCY TELEPHONE NO. 314 04 42518
ADDRESS (Number, Street, City, State, and ZIP Code) 800 W. LINDBERGH, ST LOUIS, MISSOURI		
CHEMICAL NAME AND SYNONYMS monochlorinated biphenyl		TRADE NAME AND SYNONYMS Aroclor 1221
CHEMICAL FAMILY	FORMULA	

SECTION II HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%
PIGMENTS			BASE METAL	
CATALYST			ALLOYS	
VEHICLE			METALLIC COATINGS	
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX	
ADDITIVES			OTHERS	
OTHERS				
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%

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SECTION III PHYSICAL DATA

BOILING POINT $^{\circ}\text{C}$	275-320	SPECIFIC GRAVITY ($\text{H}_2\text{O}=1$)	1.182
VAPOR PRESSURE (mm Hg.) @ 150°C	c. 18 mm Hg	PERCENT VOLATILE BY VOLUME (%)	
VAPOR DENSITY (AIR=1)	- high -	EVAPORATION RATE (= 1)	0.00174 gms/sec/cm²/hr @ 100°C
SOLUBILITY IN WATER	- very slightly soluble		
APPEARANCE AND ODOR	- clear, mobile liquid; fairly strong biphenyl odor		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) Cleveland Open Cup	141-150$^{\circ}\text{C}$	FLAMMABLE LIMITS	LeI	UeI
EXTINGUISHING MEDIA				
SPECIAL FIRE FIGHTING PROCEDURES				
UNUSUAL FIRE AND EXPLOSION HAZARDS				

SECTION V HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	<i>Not established but we recommend maximum allowable conc. as 1 mg/m³</i>
EFFECTS OF OVEREXPOSURE	<i>May cause dermatitis. An organic type respirator should be worn as well as skin and eye protective equipment particularly when working at elevated temperatures.</i>
EMERGENCY AND FIRST AID PROCEDURES	
<i>In case of accidental ingestion induce vomiting and treat symptomatically.</i>	
<i>For skin contact wash off with soap and water.</i>	
<i>In case of eye contact flush out with water.</i>	

SECTION VI REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	<i>X</i>	
INCOMPATIBILITY (Materials to avoid)			
HAZARDOUS DECOMPOSITION PRODUCTS			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	<i>X</i>	

SECTION VII SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
<i>No particular hazards involved, except excessive spill or in confined area then protective equipment for skin eye and respiration.</i>	
WASTE DISPOSAL METHOD	

SECTION VIII SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) <i>Respirator</i>			
VENTILATION	LOCAL EXHAUST	<i>Adequate ventilation at ambient temp. At elevated temp. use Organic type</i>	SPECIAL
	MECHANICAL (General)	<i>At ambient temp. Forced at elevated temp.</i>	OTHER
PROTECTIVE GLOVES		EYE PROTECTION	
<i>When working at elevated temperatures</i>		<i>When working at elevated temperatures</i>	
OTHER PROTECTIVE EQUIPMENT			

SECTION IX SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
<i>No special hazards involved.</i>	
OTHER PRECAUTIONS	