



MATERIAL SAFETY DATA SHEET

(Approved by U.S. Department of Labor "Essentially Similar" to Form LEB-006-4)



PRODUCT NAME: BAKELITE[®] VINYL-CHLORIDE RESIN SOLUTION VINC

CHEMICAL NAME: -- CHEMICAL FAMILY: Vinyl Resins (Solutions)

FORMULA: -- MOLECULAR WEIGHT: $\bar{M}_n = \sim 10,000$

SYNONYMS: --

I. PHYSICAL DATA

BOILING POINT, 760 mm. Hg	88.5 °C. (191.3 °F.)	POUR POINT	~ 25 °F.
SPECIFIC GRAVITY (H ₂ O = 1)	1.01 at 20/20 °C.	VAPOR PRESSURE AT 20 °C. (Isopropyl acetate)	42 mm. Hg
VAPOR DENSITY (air = 1)	3.5	SOLUBILITY (Isopropyl acetate) IN WATER, % by wt.	Solv. 2.9 Resin precipitates
PER CENT VOLATILES BY VOLUME	~ 60	EVAPORATION RATE (Butyl Acetate = 1)	4.55
APPEARANCE AND ODOR	Normally clear and colorless to light-straw liquid; sweet ester-like odor.		

II. HAZARDOUS INGREDIENTS

MATERIAL	%	TLV (Units)
Isopropyl Acetate	60	250 ppm. ACGIH OSHA
Vinyl Acetate	< 2	10 ppm. ACGIH
Vinyl Chloride Monomer	< 10 ppm.	1 ppm. OSHA
(See Sections III through VIII)		

III. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT 33 °F., Pensky-Martens closed cup ASTM D 93
[test method(s)] 46 °F., Cleveland open cup ASTM D 92

FLAMMABLE LIMITS IN AIR, % by volume	LOWER	1.8	UPPER	8.0
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EXTINGUISHING MEDIA

Use carbon dioxide or dry chemical for small fires.
Use alcohol-type foam for large fires.

SPECIAL FIRE FIGHTING PROCEDURES

Water spray will be helpful in reducing intensity of flame.
Wear self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Hydrogen chloride will be formed under fire conditions.
Wear self-contained breathing equipment.

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EMERGENCY PHONE NUMBER

304/744-3487

This number is available days, nights, weekends, and holidays.

While Union Carbide Corporation believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted, the data are not to be taken as a warranty or representation for which Union Carbide Corporation assumes legal responsibility. They are offered solely for your consideration, investigation, and verification. Any use of these data and information must be determined by the user to be in accordance with applicable Federal, State, and local laws and regulations.

IV. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	See Section II established by ACGIH (1976) OSHA CFR 29: 1000 Table G1
EFFECTS OF OVEREXPOSURE	Headache, nausea, vomiting, and loss of consciousness. Repeated skin contact may cause chapping.
EMERGENCY AND FIRST AID PROCEDURES	If inhaled, remove to fresh air. Give artificial respiration if breathing has stopped; then, give oxygen and call a physician. Flush skin or eye contact with water.

V. REACTIVITY DATA

STABILITY		CONDITIONS TO AVOID	None
UNSTABLE	STABLE		
--	✓		
INCOMPATIBILITY (materials to avoid)		Strong alkalis	
HAZARDOUS DECOMPOSITION PRODUCTS		Burning can produce hydrogen chloride, carbon monoxide, and/or carbon dioxide.	
HAZARDOUS POLYMERIZATION		CONDITIONS TO AVOID	None
May Occur	Will not Occur		
--	✓		

VI. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED	Eliminate all sources of ignition. Collect material (in a suitable container for flammable wastes) for disposal. Toxic to fish; avoid discharge to natural waters.
WASTE DISPOSAL METHOD	Incinerate in a furnace where permitted under appropriate Federal, State, and local regulations.

VII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type)		Air-supplied mask in high concentrations.	
VENTILATION	LOCAL EXHAUST	Preferred	SPECIAL --
	MECHANICAL (general)	✓	OTHER --
PROTECTIVE GLOVES		Plastic	EYE PROTECTION Safety glasses
OTHER PROTECTIVE EQUIPMENT		Eye bath and safety shower	

VIII. SPECIAL PRECAUTIONS

		BAKELITE® VINYL-CHLORIDE RESIN SOLUTION VVNC	
PRECAUTIONARY LABELING	WARNING!	HARMFUL IF INHALED FLAMMABLE	
		Avoid breathing vapor. Keep away from heat, sparks, and open flame. Keep container closed. Use with adequate ventilation.	
	FIRST AID:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.	
		FOR INDUSTRY USE ONLY	
OTHER HANDLING AND STORAGE CONDITIONS		This solution contains less than ten parts per million vinyl chloride monomer, and when used under conditions of good manufacturing practice, will not contaminate the work space air in excess of 0.5 ppm. vinyl chloride monomer. This material is considered a 'fabricated product' under the OSHA Standard for occupational exposure to vinyl chloride, and is, therefore, exempt from the regulations set forth by the Standard.	

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