

**UNION
CARBIDE****COATINGS
MATERIALS****BAKELITE® VINYL SOLUTION RESIN
VYHD-1
FOR COATINGS****PRODUCT STANDARDS****DESCRIPTION**

BAKELITE® VYHD-1 is a vinyl chloride-vinyl acetate copolymer resin, similar in composition though lower in molecular weight than BAKELITE® VYHH. Higher solids solutions are possible than with BAKELITE® VYHH.

APPLICATION

BAKELITE® VYHD-1 is recommended for general coatings use where the exceptional toughness and durability of BAKELITE® VYHH are not required.

FOOD ADDITIVE STATUS

BAKELITE Vinyl Solution Resin VYHD-1 is cited by chemical identity in Food Additive Regulations §175.300 (formerly §121.2514) for Resinous and Polymeric Coatings and by reference in §176.170 (formerly §121.2526) for Components of Paper and Paperboard and in §177.1210 (formerly §121.2550) for Components of Closures.

Properties of
BAKELITE Vinyl Solution Resin VYHD-1

Properties	Test Methods	Required Values
Appearance	Visual	White powder
Size, % by weight through a No. 20 USBS Sieve	WC-7-F	98, minimum
Heating Loss, 45 minutes at 105°C., % by weight	WC-160-H	3.0, maximum
Polyvinyl Chloride, % by weight	WC-294-A or B	84.0 - 87.0
Solution Properties, 25% solution of resin in 65:35 Toluene:MEK: Viscosity at 25°C., cps.	WC-31-W	150 - 225 (Typical - 175)
Color, % light transmission at 475 m μ /600 m μ	WC-5-K-2	90, minimum
Turbidity, light transmission at 600 m μ , %	WC-5-K-2	90, minimum
Insoluble Matter, 10% solution % by wet volume	WC-322-C	0.03, maximum
Residual Vinyl Chloride Monomer, by weight	WC-326-G-1	Less than 1 ppm.

F-47120A

(continued)

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UNION CARBIDE CORPORATION - 270 PARK AVENUE, NEW YORK, N.Y. 10017

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TEST METHODS

Designated tests are made in accordance with current issues of Union Carbide (WC) testing methods. They are available from Union Carbide Corporation upon request.

LABELING

All containers of BAKELITE Vinyl Solution Resin VYHD-1 are plainly marked with the product nomenclature, blend number, and net weight. Shipments will be so addressed as to provide complete delivery to the purchaser.

SHIPPING AND STORAGE

BAKELITE Vinyl Solution Resin VYHD-1 is a stable material when kept in closed containers stored in a cool dry place.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

On the basis of the toxicological, physical, and chemical properties of BAKELITE Vinyl Solution Resin VYHD-1, only normal precautions common to good manufacturing practice need to be followed in handling and storage.

FOR INDUSTRY USE ONLY

TOXICOLOGICAL PROPERTIES

BAKELITE Vinyl Solution Resin VYHD-1 is a powdered resin which is essentially inert and non-toxic. Its dust is classed as a nuisance dust which is not known to cause lung disease. However, it is prudent not to exceed the recommended Threshold Limit Value for nuisance dust of 10 mg. per cubic meter of air or 30 million particles per cubic foot, whichever is the smaller.

EMERGENCY SERVICE

For help and emergencies such as a spill, leak, fire or exposure involving a Union Carbide chemical or plastic, call collect day or night: 304-744-3487

For any chemical emergency, call: CHEMTREC 800-424-9300

NEED OTHER UNION CARBIDE® PRODUCTS—SERVICES?

CALL The Nearest Corporate Information Center
New York (212) 551-3763
Chicago (312) 454-2022
Houston (713) 621-1000
Long Beach (213) 435-3721

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