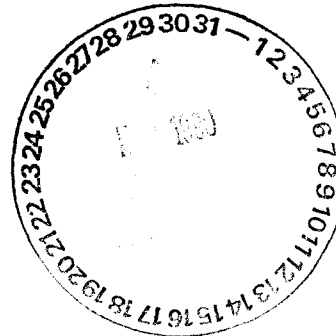


LAW OFFICES
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VIVIAN ROSADO *	ERIC S. STECKERL *
ROBIN THORNBURG	ILISA J. SMUKLER
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March 26, 1990



SUITE 203
1770 EAST MARKET STREET
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717/755-9000
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ALBERT B. GERBER
OF COUNSEL

IN REPLY REFER TO
FILE NO.

113

* ALSO MEMBER OF NEW JERSEY BAR
** ALSO MEMBER OF DISTRICT OF COLUMBIA BAR
+ ALSO MEMBER OF ILLINOIS AND WISCONSIN BARS
+ + ALSO MEMBER OF NEW YORK BAR

James H. Tourtelotte, Esquire
Robinson, Donovan, Madden and Barry
1500 Main Street-Suite 1400
P.O. Box 15609
Springfield, Massachusetts 01115

RE: Requested Documents from Firestone/Occidental

Dear Mr. Tourtelotte:

Enclosed please find the documents you requested to assist you with your case. I hope they are helpful to you.

I will forward a bill for copying and mailing costs within the week.

Good Luck,

VALERIE FAULKNER
PARALEGAL

1 of 2

001802



MATERIAL SAFETY DATA SHEET

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



CHEMICAL NAME: BAKELITE® VINYL CHLORIDE-ACETATE RESIN VYHH

SYNONYMS: --

CHEMICAL FAMILY: Vinyl Chloride-Vinyl Acetate Copolymer (85:15 ratio)

FORMULA: $\left(\text{CH}_2 - \underset{\text{Cl}}{\text{CH}} \right)_x \left(\text{CH}_2 - \underset{\text{OC}=\text{CH}_3}{\text{CH}} \right)_y$

MOLECULAR WEIGHT: $\bar{M}_n = 14,800$

TRADE NAME AND SYNONYMS: BAKELITE Vinyl Chloride-Acetate Resin VYHH

I. PHYSICAL DATA

BOILING POINT, 760 mm. Hg	Not applicable	FREEZING POINT	Not applicable
SPECIFIC GRAVITY (H ₂ O = 1)	1.35 ± 0.005 at 20/20°C.	VAPOR PRESSURE AT 20°C.	Not applicable
VAPOR DENSITY (air = 1)	Not applicable	SOLUBILITY IN WATER, % by wt.	Nil
PER CENT VOLATILES BY VOLUME	0	EVAPORATION RATE (Butyl Acetate = 1)	Not applicable
APPEARANCE AND ODOR	White powder; mild, alcohol-ester like odor.		

II. HAZARDOUS INGREDIENTS

MATERIAL	%	TLV (Units)
Not applicable		

III. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (test method)	>500°F., Cleveland open cup	AUTOIGNITION TEMPERATURE	792°F.		
FLAMMABLE LIMITS IN AIR, % by volume	LOWER	Not applicable	UPPER	Not applicable	

EXTINGUISHING MEDIA	Carbon dioxide or dry chemical for small fires. Water for large fires.
SPECIAL FIRE FIGHTING PROCEDURES	None
UNUSUAL FIRE AND EXPLOSION HAZARDS	Hydrogen chloride may be formed under fire conditions. Self-contained breathing equipment may be necessary.

001803

EMERGENCY PHONE NUMBERS

Dr. C. U. Dernehl, 212/551-4785; 914/946-0646 (night)

Dr. K. S. Lane, 212/551-4787; 914/666-3656 (night)

C. P. Carpenter, Ph.D., 412/327-1020; 412/241-7896 (night)

Attachment 3
(p. 1 of 8)

IV. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	15 mg./M. ³ inert dust value
EFFECTS OF OVEREXPOSURE	No systemic effects. Very high dust concentrations may irritate respiratory passages and eyes as will any dust at high air levels.
EMERGENCY AND FIRST AID PROCEDURES	None

V. REACTIVITY DATA

STABILITY		CONDITIONS TO AVOID	None
UNSTABLE	STABLE		
--	✓		
INCOMPATIBILITY (materials to avoid)		None	
HAZARDOUS DECOMPOSITION PRODUCTS		Thermal decomposition may produce hydrogen chloride, carbon monoxide, and/or carbon dioxide. May evolve hydrogen chloride at temperatures above 150°C.	
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	Sweep up and put in waste containers; flush excess with water.
WASTE DISPOSAL METHOD	Bury in a landfill.

VII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type)	Dust respirator in very high dust levels		
VENTILATION	LOCAL EXHAUST	Preferable	SPECIAL --
	MECHANICAL (general)	Acceptable	OTHER --
PROTECTIVE GLOVES	Not required	EYE PROTECTION	Safety spectacles
OTHER PROTECTIVE EQUIPMENT	Eye bath and safety shower		

VIII. SPECIAL PRECAUTIONS

001804

PRECAUTIONARY LABELING	BAKELITE® VINYL CHLORIDE-ACETATE RESIN VYHH On the basis of toxicological, physical, and chemical properties of BAKELITE Vinyl Chloride-Acetate Resin VYHH, precautionary labeling used on the containers is as follows: FOR INDUSTRY USE ONLY
OTHER HANDLING AND STORAGE CONDITIONS	--



MATERIAL SAFETY DATA SHEET

(Approved by U.S. Department of Labor "Essentially Similar" to Form LSH-005-4)

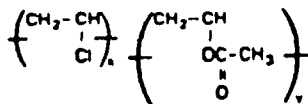


CHEMICAL NAME: BAKELITE® VINYL CHLORIDE-ACETATE RESIN VYNS

SYNONYMS: ---

CHEMICAL FAMILY: Vinyl Chloride-Vinyl Acetate Copolymer (90:10 ratio)

FORMULA:



MOLECULAR WEIGHT: $\bar{M}_n \approx 34,800$

TRADE NAME AND SYNONYMS: BAKELITE Vinyl Chloride-Acetate Resin VYNS

I. PHYSICAL DATA

BOILING POINT, 760 mm. Hg	Not applicable	FREEZING POINT	Not applicable
SPECIFIC GRAVITY (H ₂ O = 1)	1.36 ± 0.005 at 20/20°C.	VAPOR PRESSURE AT 20°C.	Not applicable
VAPOR DENSITY (air = 1)	Not applicable	SOLUBILITY IN WATER, % by wt.	Nil
PER CENT VOLATILES BY VOLUME	0	EVAPORATION RATE (Butyl Acetate = 1)	Not applicable
APPEARANCE AND ODOR	White, powdered solid; mild, alcohol-ester like odor.		

II. HAZARDOUS INGREDIENTS

MATERIAL	%	TLV (Units)
Not applicable		

III. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (test method)	>500°F., Cleveland open cup	AUTOIGNITION TEMPERATURE		802°F. (estimated)	
FLAMMABLE LIMITS IN AIR, % by volume		LOWER	Not applicable	UPPER	Not applicable

EXTINGUISHING MEDIA	Carbon dioxide or dry chemical for small fires. Water for large fires.
SPECIAL FIRE FIGHTING PROCEDURES	None
UNUSUAL FIRE AND EXPLOSION HAZARDS	Hydrogen chloride may be formed under fire conditions. Self-contained breathing equipment may be necessary.

001805

EMERGENCY PHONE NUMBERS

Dr. C. U. Dernehl, 212/551-4785; 914/946-0646 (night)
Dr. K. S. Lane, 212/551-4787; 914/666-3656 (night)
C. P. Carpenter, Ph.D., 412/327-1020; 412/241-7896 (night)

IV. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

15 mg./M.³ inert dust value

EFFECTS OF OVEREXPOSURE

No systemic effects. Very high dust concentrations may irritate respiratory passages and eyes as will any dust at high air levels.

EMERGENCY AND FIRST AID PROCEDURES

None

V. REACTIVITY DATA

STABILITY

UNSTABLE STABLE

CONDITIONS TO AVOID

None

INCOMPATIBILITY (materials to avoid)

None

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition may produce hydrogen chloride, carbon monoxide, and/or carbon dioxide. May evolve hydrogen chloride at temperatures above 150°C.

HAZARDOUS POLYMERIZATION

May Occur Will not Occur

CONDITIONS TO AVOID

None

VI. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Sweep up and put in waste containers; flush excess with water.

WASTE DISPOSAL METHOD

Bury in a landfill.

VII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type)

Dust respirator in very high dust levels

VENTILATION LOCAL EXHAUST MECHANICAL (general)

Preferable

Acceptable

SPECIAL

OTHER

PROTECTIVE GLOVES

Not required

EYE PROTECTION

Safety goggles

OTHER PROTECTIVE EQUIPMENT

Safety shower and eye bath

VIII. SPECIAL PRECAUTIONS

BAKELITE[®] VINYL CHLORIDE-ACETATE RESIN VYNS

On the basis of toxicological, physical, and chemical properties of BAKELITE Vinyl Chloride-Acetate Resin VYNS, precautionary labeling used on the containers is as follows:

PRECAUTIONARY LABELING

FOR INDUSTRY USE ONLY

001806

OTHER HANDLING AND STORAGE CONDITIONS

--

MATERIAL SAFETY DATA SHEET

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

CHEMICAL NAME: BAKELITE® VINYL CHLORIDE-ACETATE RESIN VMCH

SYNONYMS: VMCH; Vinyl Chloride-Vinyl Acetate-Maleic Acid Terpolymer

CHEMICAL FAMILY: Vinyl Chloride-Vinyl Acetate-Maleic Acid Terpolymer

FORMULA: $\left[\left(\text{CH}_2 - \underset{\text{Cl}}{\text{CH}} \right)_x \left(\text{CH}_2 - \underset{\text{OAc}}{\text{CH}} \right)_y \left(\text{CH} - \underset{\text{COOH}}{\text{CH}} \right)_z \right]$ MOLECULAR WEIGHT: ~ 21,000 (average)

TRADE NAME AND SYNONYMS: BAKELITE Vinyl Chloride-Acetate Resin VMCH

I. PHYSICAL DATA

BOILING POINT, 760 mm. Hg	Not applicable	FREEZING POINT	Not applicable
SPECIFIC GRAVITY (H ₂ O = 1)	1.35 ± 0.005 at 20/20°C.	VAPOR PRESSURE AT 20°C.	Not applicable
VAPOR DENSITY (air = 1)	Not applicable	SOLUBILITY IN WATER, % by wt.	Nil
PER CENT VOLATILES BY VOLUME	0	EVAPORATION RATE (Butyl Acetate = 1)	Not applicable
APPEARANCE AND ODOR	White, powdered solid; very slight, pleasant odor.		

II. HAZARDOUS INGREDIENTS

MATERIAL	%	TLV (Units)
Not applicable		

III. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (test method)	>500° F., Cleveland open cup	AUTOIGNITION TEMPERATURE		788° F. (estimated)	
FLAMMABLE LIMITS IN AIR, % by volume		LOWER	Not applicable	UPPER	Not applicable

EXTINGUISHING MEDIA	Carbon dioxide or dry chemical for small fires. Water for large fires.
SPECIAL FIRE FIGHTING PROCEDURES	None
UNUSUAL FIRE AND EXPLOSION HAZARDS	Hydrogen chloride may be formed under fire conditions. Self-contained breathing equipment may be necessary.

001807

EMERGENCY PHONE NUMBERS

Dr. C. U. Dernehl, 212/551-4785; 914/946-0646 (night)
Dr. K. S. Lane, 212/551-4787; 914/666-3656 (night)
C. P. Carpenter, Ph.D., 412/327-1020; 412/241-7896 (night)

IV. HEALTH HAZARD DATA

PERMISSIBLE LIMIT VALUE	None
EFFECTS OF OVEREXPOSURE	None expected. An inert, nuisance-type dust.
EMERGENCY AND FIRST AID PROCEDURES	Flush eye contact with water. No other care should be needed.

V. REACTIVITY DATA

STABILITY		CONDITIONS TO AVOID	None
UNSTABLE	STABLE		
--	✓		
COMPATIBILITY (materials to avoid)		None	
HAZARDOUS COMPOSITION PRODUCTS		Thermal decomposition may 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	Clean up spilled material and put in waste containers; flush excess with water.
WASTE DISPOSAL METHOD	Bury in a landfill.

VII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type)		Dust respirator, Bureau of Mines approved	
VENTILATION	LOCAL EXHAUST	--	SPECIAL --
	MECHANICAL (general)	Acceptable	OTHER --
DETECTIVE GLOVES		Not required	EYE PROTECTION Safety spectacles
OTHER PROTECTIVE EQUIPMENT		Safety shower and eye bath	

VIII. SPECIAL PRECAUTIONS

PRECAUTIONARY LABELING	BAKELITE® VINYL CHLORIDE-ACETATE RESIN VMCH		
	On the basis of toxicological, physical, and chemical properties of BAKELITE Vinyl Chloride-Acetate Resin VMCH, precautionary labeling used on the containers is as follows:		
	FOR INDUSTRY USE ONLY		
OTHER HANDLING AND STORAGE CONDITIONS	---		

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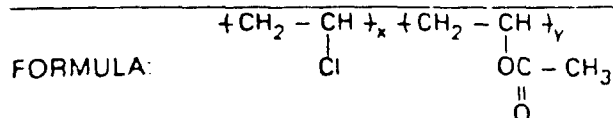
MATERIAL SAFETY DATA SHEET

Approved by U.S. Department of Labor. Essentially Similar to Form LSB-005-41

CHEMICAL NAME: BAKELITE[®] VINYL CHLORIDE-ACETATE RESIN VYNW

SYNONYMS: --

CHEMICAL FAMILY: Vinyl Resins



MOLECULAR WEIGHT: ~ 140,000

TRADE NAME AND SYNONYMS: BAKELITE Vinyl Chloride-Acetate Resin VYNW

I. PHYSICAL DATA

BOILING POINT, 760 mm. Hg	Not applicable	FREEZING POINT	Not applicable
SPECIFIC GRAVITY (H ₂ O = 1)	1.4	VAPOR PRESSURE at 20°C.	Not applicable
VAPOR DENSITY (air = 1)	Not applicable	SOLUBILITY IN WATER, % by wt. at 20°C.	Nil
PER CENT VOLATILES BY WEIGHT	1	EVAPORATION RATE (Butyl Acetate = 1)	Not applicable
APPEARANCE AND ODOR	White powder; odorless.		

II. HAZARDOUS INGREDIENTS

MATERIAL	%	TLV (Units)
Not applicable		

III. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (test method)	>500° F., Cleveland open cup		AUTOIGNITION TEMPERATURE	820° F. (estimated)	
FLAMMABLE LIMITS IN AIR, % by volume	LOWER		Not applicable	UPPER	Not applicable
EXTINGUISHING MEDIA	Carbon dioxide or dry chemical for small fires. Water for large fires.				
SPECIAL FIRE FIGHTING PROCEDURES	None				
UNUSUAL FIRE AND EXPLOSION HAZARDS	Hydrogen chloride may be formed under fire conditions. Self-contained breathing equipment may be required.				

EMERGENCY PHONE NUMBERS

Dr. C. U. Dernehl, 212-551-4785; 914-946-0646 (night)
Dr. K. S. Lane, 212-551-4787; 914-666-3656 (night)
C. P. Carpenter, Ph.D., 412-327-1020; 412-241-7896 (night)

001809

Legal responsibility is assumed only for the fact that all studies reported here and all opinions are those of qualified experts

IV. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	15 mg./M. ³ inert dust value.
EFFECTS OF OVEREXPOSURE	No systemic effects. Very high dust concentrations may irritate respiratory passages and eyes, just as any dust will at high air levels.
EMERGENCY AND FIRST AID PROCEDURES	None required.

V. REACTIVITY DATA

STABILITY		CONDITIONS TO AVOID	None
UNSTABLE	STABLE		
--	✓		
INCOMPATIBILITY (materials to avoid)	None		
HAZARDOUS DECOMPOSITION PRODUCTS	Thermal decomposition may 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	Sweep up and put in waste containers. Flush excess with water.
WASTE DISPOSAL METHOD	Bury in a landfill.

VII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type)	Dust respirator in very high dust levels		
VENTILATION	LOCAL EXHAUST	Preferable	SPECIAL --
	MECHANICAL (general)	Acceptable	OTHER --
PROTECTIVE GLOVES	Not required	EYE PROTECTION	Safety spectacles
OTHER PROTECTIVE EQUIPMENT	Safety shower and eye bath		

VIII. SPECIAL PRECAUTIONS

PRECAUTIONARY LABELING	BAKELITE® VINYL CHLORIDE-ACETATE RESIN VYNW On the basis of toxicological, physical, and chemical properties of BAKELITE Vinyl Chloride-Acetate Resin VYNW, precautionary labeling used on the containers is as follows: FOR INDUSTRY USE ONLY		
OTHER HANDLING AND STORAGE CONDITIONS	--		

001810