

KLÖCKNER PENTAPLAST

Stenatt

12001	12158	78422
12101	12302	66002
12135	44210	66003
12146	44212	
	P/N	100706

FACSIMILE TRANSMITTAL SHEET

TO: **Lewis Grebin**

FROM: **Karin H. Weiss**
[Signature]
West Coast Sales Administrator

COMPANY: **CENTIS**

DATE: **8/29/00**

FAX NUMBER: **714/441-4559**

TOTAL NO. OF PAGES INCLUDING COVER: **4**

PHONE NUMBER: **714/441-4500 x2219**

PHONE NR. **714/540-5425** FAX NR. **714/540-9098**

RE: **MSDS**

E-MAIL ADDRESS: **kweiss@kpafilms.com**

COPY TO: **Peter Brzezinski**

URGENT FOR REVIEW PLEASE COMMENT PLEASE REPLY PLEASE RECYCLE

NOTES/COMMENTS:

Lewy,

As requested in your e-mail of today, please find attached our Material Safety Data Sheet (MSDS) for Your Part # 100527 - 100661 - 100694 + 100706. Since all 4 products are PVC film, attached is our Polyvinyl Chloride sheet. *100723*

If you have any questions, please do not hesitate to let me know.

KLÖCKNER PENTAPLAST

KLÖCKNER PENTAPLAST OF AMERICA, INC.
P.O. Box 500 • 3585 Klöckner Road
Gordonsville, VA 22942 USA

Phone: 540-832-3600
Fax: 540-832-5856
www.klockner.com

Revision 8
Date Issued 7/96

Page 1 of 3

MATERIAL SAFETY DATA SHEET

I - PRODUCT IDENTIFICATION

Manufacturer's Name	Telephone
Klöckner Pentaplast of America, Inc.	Regular (540) 832-3600
	Emergency <u>same</u>

Address:

P.O. Box 500, Klöckner Road, Gordonsville, Virginia 22942

Product Name and Synonyms:

**Pentapharm[®], Pentafood[®], Pentaclear[®], Pentadur[®],
Pentamed[®], Pentaform[®], Pentaprint[®], Pentatherm[®],
Pentalan[®], Pentastat[®], Pentacard[™], Pentasound[™]**

Chemical Name and Formula:

Rigid Polyvinyl Chloride

Uses:

Packaging, Pharmaceuticals, Food, Boxes, Stationary, Thermoforming, Printing, Insulation,
Technical

II - HAZARDOUS INGREDIENTS

Material (s)	NONE	% by wt
--------------	------	---------

III - PHYSICAL DATA

Bolling Point (760mm HG)	N/A	Specific Gravity (H2O=1)	1.3 - 1.5
Vapor Pressure (MM HG)	N/A	Percent Volatile by Volume (2)	Negligible
Vapor Density (Air = 1)	N/A	Evaporation Rate (=1)	N/A
Solubility in Water (*by WT)	Insol.	Melting Point	N/A
Appearance-Plastic Sheet, Clear and Colors		Molecular Wt.	N/A

 IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	N/A	Flammable Limits LEL	UEL
Extinguishing Media		(% by Volume)	NA NA
H ₂ O, CO ₂ Dry Chemical		Autoignition Temperature	N/A

 Special Fire Fighting procedures

Rigid PVC Sheet is self-extinguishing. If rigid PVC is involved in a fire (fueled by another source) and breathing is difficult, use a self contained breathing apparatus and full protective equipment.

 Hazardous Combustion Procedures

None

 Unusual Fire and Explosion Hazards

Rigid PVC is self-extinguishing, but can be burned if fueled by another source. When forced to burn PVC gives off trace amounts of hydrogen chloride and other irritating fumes. Protective equipment is recommended.

 V - HEALTH HAZARD DATA

Effects of Overexposure

Inhalation - Acute Effects	None	<u>LD50</u>	NA	<u>LC50</u>	NA
- Chronic Effects	None	<u>TLVA</u>	NA	<u>STEL</u>	NA
Skin Contact	None				
Eye Contact	N/A				
Ingestion - Acute Effect -					
- Chronic Effect -	N/A				

Emergency and First Aid Procedures

Eye	N/A
Skin	None
Inhalation	None
Ingestion	N/A

VI - REACTIVITY DATA

Conditions Contributing to Instability	Heat
Incompatibility	None
Hazardous Decomposition Products	HCL, CO, CO ₂ (Above 570°F)
Conditions Contributing to Hazardous Polymerization	High Heat

VII - SPILL OR LEAK PROCEDURES

Steps to be taken if material is released or spilled	None
Waste Disposal Method	Recycle Incinerate Landfill

VIII - SPECIAL PROTECTION INFORMATION

Ventilation Requirements	None
Respiratory Protection (Specific Type)	None
Eye Protection - (Specify)	None
Protective Gloves - (Specify)	None
Other Clothing & Equipment - (Specify)	None

IX - SPECIAL PRECAUTIONS

Precautionary Statements for Posting

Other Handling and Storage Precautions None

The information on this MSDS form is accurate to the best of Klockner's knowledge and is provided solely for the purpose of complying with OSHA Safety and Health regulations, and is not intended for any other purpose. No guarantee, expressed or implied, concerning this information is made.

H. O. Sargent
Signature

2/10/02
Date

LAB MANAGER
Title

Klockner-Pentaplast of America
P.O. Box 500
Gordonsville, VA 22942
Address

44210

PL 100704

MATERIAL SAFETY DATA SHEET

O'SULLIVAN PLASTICS CORPORATION:
1944 VALLEY AVE.
WINCHESTER, VA 22601

1507 WILLOW ST.
LEBANON, PA 17045

REGALITE PLASTICS:
300 NEEDHAM ST.
NEWTON UPPER FALLS, MA 02164

270 N. HIGHWAY 85A
YERINGTON, NV 89447

EMERGENCY NUMBERS:

O'SULLIVAN CORP: (540) 667-6666 (USA)
CHEM-TEL INC: 1-800-255-3924 (USA)

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: HCY- Series

CHEMICAL NAME & SYNONYMS: Poly (Vinyl Chloride), PVC, Vinyl
TRADE NAMES & SYNONYM: Sheet Vinyl

CHEMICAL FAMILY: Vinyl Resin - **FORMULA:** (CH₂CHCl)_n & FUNCTIONAL ADDITIVES

SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	% BY WEIGHT	CAS #
PIGMENTS	0 - 5%	
PVC RESIN	**	9002-86-2
CALCIUM CARBONATE	**	4471-34-1
STABILIZERS	**	
PLASTICIZERS	**	
EPOXIDIZED SOYBEAN OIL	**	8013-07-8

NOTE: Due to the introduction of recycled material, only added ingredients can be accurately calculated.

SARA 313 HAZARDOUS INGREDIENTS:

CHEMICAL NAME	% BY WEIGHT	CAS #
BARIUM SALTS (AS Ba COMPOUNDS)	< 0.50 %	
ZINC SALTS (AS Zn COMPOUNDS)	< 0.05 %	
COBALT METALS (Cd, Cr, Pb, Hg)	0-100 PPM	
DI(2-ETHYLHEXYL) PHTHALATE	< 20 %	117-81-7

NOTE: ** Percentages are held as proprietary information.
Residual vinyl chloride monomers have not been detected by industrial hygiene monitoring during the manufacturing process.

DATE PREPARED: 5/19/85

SECTION III - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Pigmented or unpigmented vinyl sheet with a mild ester odor. Can burn in fire, releasing toxic vapors.

POTENTIAL HEALTH EFFECTS: No known adverse health effects are associated with the normal handling and use of this material.

SECTION IV - FIRST AID MEASURES

EMERGENCY/ FIRST AID PROCEDURES: If irritation develops from processing vapors or decomposition products remove individual from area and call physician.

SECTION V - FIRE FIGHTING MEASURES

FLASH POINT (METHOD USED): FLAMMABLE LIMITS LEL - N/A UEL - N/A
(ASTM D1928) 320° C-390° C (PLASTICIZER PORTION OF PRODUCT FORMULATION)

EXTINGUISHING MEDIA: Water, ABC Dry Chemical, AFFF Protein

SPECIAL FIRE FIGHTING PROCEDURES:
NFPA Class A "Ordinary Combustible" CO not recommended. Wear Positive Pressure SCBA

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Most vinyl compounds will not support combustion because they require a higher concentration of oxygen for burning than is present in the earth's atmosphere. Any vinyl can be forced to burn by continuous application of heat. When forced to burn, the primary combustion products will be hydrogen chloride gas, carbon monoxide, and carbon dioxide. Hydrogen chloride gas has a very corrosive effect on many metals. Affected surfaces should be washed to remove corrosive deposits as soon as possible after depositions have occurred.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled: N/A

SECTION VII - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN WHEN HANDLING AND STORING:

- 1) Sprinklered warehouses are recommended. Although most vinyl sheeting will not support combustion, materials such as cardboard boxes, wooden pallets, and other combustibles can provide sufficient fuel to cause vinyl to burn.
- 2) Always wear rubber gloves when cleaning exhaust equipment or other surfaces.
- 3) Regrinding of scrap generates substantial heat, which will not readily dissipate due to vinyl's excellent insulating properties. This could result in slow thermal decomposition of materials, rendering the vinyl unsatisfactory for further processing, and possibly causing release of fumes and vapors to the workplace.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION:
Positive pressure SCBA for fire fighting

VENTILATION:

Good general ventilation (typically 10 air changes per hour) should be sufficient to control airborne levels during operations requiring heating of material.

EXPOSURE GUIDELINES:

TLV: None established

PROTECTIVE GLOVES:

When material is heated

EYE PROTECTION:

Recommended for all industrial workplaces

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT (° F):	N/A	SPECIFIC GRAVITY: 1.15-1.36
VAPOR PRESSURE (mm Hg):	N/A	% VOLATILE BY VOLUME: < 1%
VAPOR DENSITY (AIR = 1):	N/A	EVAPORATION RATE: N/A
SOLUBILITY IN WATER:	Slight	
APPEARANCE AND ODOR:	Pigmented or unpigmented sheet; mild ester odor	

SECTION X - STABILITY AND REACTIVITY

STABILITY: Product is stable

HAZARDOUS DECOMPOSITION PRODUCTS:

HCl, CO, CO₂, Benzene, Aromatic & Aliphatic Hydrocarbons

POLYMERIZATION: Polymerization will not occur

CONDITIONS TO AVOID: See special precautions in Section VII

SECTION XI - TOXICOLOGICAL INFORMATION

No data available

SECTION XII - ECOLOGICAL INFORMATION

No data available

SECTION XIII - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Material must be disposed of in accordance with federal, state, and local environmental control regulations. Material may be disposed of in a landfill.

SECTION XIV - TRANSPORT INFORMATION

PVC sheet vinyl is not a D.O.T. hazardous material.

SECTION XV - REGULATORY INFORMATION

SARA TITLE III (Superfund Amendments and Reauthorization Act):
313 reportable ingredients: see Section II

SECTION XVI - OTHER INFORMATION

THIS MSDS ADDRESSES THE FOLLOWING COMPOUNDS: HCY 0-100

- HCY-2194
- HCY-3123
- HCY-3124
- HCY-3125
- HCY-3160
- HCY-3218
- HCY-4378 100784
- HCY-4616
- HCY-7183
- HCY-8400
- HCY-8443

REVISION SUMMARY: Since August 13, 1993, Sections I-X of this MSDS have been revised and Sections XI-XVI have been added.
Section XVI updated 7/11/96.

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this material. Regarding the accuracy of information, the hazards connected with the use of the material or the results to be obtained from the use thereof, information contained herein is believed to be true and accurate, but all statements or suggestions are made without warranty, express or implied. Compliance with all applicable federal, state, and local laws and regulations remains the responsibility of the user.