

**MATERIAL SAFETY DATA SHEET ACCORDING TO 91/155/EC**  
**CATALYST PLHG**

Document n. 40/1427 dated 03/04/97  
Written in Cavaria on 01/04/99

**01 - IDENTIFICATION OF SUBSTANCE, PREPARATION AND COMPANY**

Trade name:  
Supplier:



**Pad Print Machinery of VT, Inc.**  
P.O. Box 720  
East Dorset, VT 05253  
Information Phone: 800-272-7764  
24-Hour Emergency #: 800-535-5053

**02 - COMPOSITION/INFORMATION ON COMPONENTS**

Hazardous components		N. CAS
Epoxyane in function of amine	99%	1670-24-3
Symbol	Xn	R: 22-41-43
Methyl alcohol	1%	67-56-1
Symbol	T	R: 23-25

**03 - HAZARDS IDENTIFICATION**

Hazard designation: Xn Harmful

**04 - FIRST AID MEASURES**

General: Remove immediately all contaminated clothes. In all cases of doubt, or when symptoms persist, seek medical attention.

Inhalation: Take the casualty into fresh air and keep at rest and warm.

Skin contact: Wash away with neutral soap and water. Wash garments before wearing them.

Eyes contact: Flush with plenty of water. Consult a doctor.

Ingestion: Rinse the mouth. Do not induce vomiting. Consult a doctor.

**05 - FIRE-FIGHTING MEASURES**

Suitable Extinguishing media: Alcohol resistant foam, CO2, powder, water spray.

Not Suitable Extinguishing media: None in particular.

Special risk posed by combustion products: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Protective equipment: Put on an appropriate breathing apparatus. Cool endangered containers with water in case of fire.

**06 - ACCIDENTAL RELEASE MEASURES**

Personal precautions: Remove ignition sources, provide for sufficient ventilation. Refer to protective measures listed in section 7 and 8.

Environmental precautions: Do not empty into drains or river. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

Cleaning up methods: Contain and collect spillage with not-combustible absorbent material like sands, vermiculite, earth, diatomaceous earth, and place in container for disposal according to the local regulations. Clear the contaminated area with detergent; avoid use of solvents.

## 07 - HANDLING AND STORAGE

Information for safe handling:	Avoid contact with eyes and skin. Prevent the creation of flammable or explosive concentration of vapours in air and avoid vapour concentration higher than the occupational exposure limits. Furthermore, the products should be used only in area in which all naked lights and other ignition sources have been excluded. Comply with the health and safety work laws.
Information about protection Against explosions and fire:	Vapour are heavier than air and may spread along floors. Vapour may form explosive mixture with air. Preparation may charge electrostatically: use always earthing leads when transferring from one container to another. Operators should wear antistatic footwear.
Requirements to be met by Storerooms:	Electrical equipment should be protected according to the appropriate standards. Floor should be of conducting type. Keep containers tightly closed. Storage in a dry and cool room. Do not smoke.
Further information:	Keep away from oxidising agents, from strongly alkaline and strongly acid materials.

## 08 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Precautionary measures: Provide adequate ventilation in order to meet the suggested TLV data at workplace:

Methyl alcohol	TWA	200 ppm
Amino-ethyl amino-propyl trimetoxysilane	TWA	200 ppm

Respiratory equipment:	Wear a suitable breathing protection in case of inadequate ventilation.
Hands protection:	Use protective gloves and protective creams.
Eyes protection:	Use safety glasses.
Skin protection:	Personal should wear protective clothing.

## 09 - PHYSICAL AND CHEMICALS PROPERTIES

Physical aspect	Liquid
Colour	Slightly pale yellow
Smell	Typical of amines
Solubility in water	% P/P at 10 °C
Flash point	49 °C
Volatile percentage (%P/P)	about 1%
Vapour Tension	<0,70 KPa
Specific weight	about 1,03

## 10 - STABILITY AND REACTIVITY

Conditions to avoid:	Stable under recommended storage. Disgregation at melting temperature.
Materials to avoid:	Water. Keep away from oxidising agents, strongly alkaline and strongly acid materials.
Dangerous decomposition products:	When exposed to high temperature may produce hazardous decomposition products such as carbon monoxide and dioxide smoke.

## 11 - TOXICOLOGICAL INFORMATION

Experience on practise:	There are no data available on the preparation.
Skin contact:	Irritation of the skin.
Eyes contact:	Irritating.

Inhalation: In high concentration irritating to the mucous membranes. Anaesthetic effect.  
 Ingestion: (Refer to paragraph no. 16)

**12 - ECOLOGICAL INFORMATION**

There are no data available on the preparation. Use the product according to practice and avoid to scatter it in the environment.

**13 - DISPOSAL CONSIDERATION**

If possible, salvage the product otherwise pass on to an appropriate incinerating plant or waste dump in accordance with local official regulations.

**14 - TRANSPORT INFORMATION**

Maritime transport IMDG/GGVSee

Classification:	3.3	IMDG-Page:	
IMDG- Code:	1993	MarPol:	
ONU Number:	306	EMS Number:	3-07
MFAG:		Alkilsilane	
Substance releasing the danger:			
Packing group:	III		

Air transport ICAO-TI e IATA-DGR

Classification:	
ICAO/IATA class:	3.3
ONU Number:	1993
Substance releasing the danger:	Alkilsilane

Land transport/Railway transport ADR/RID e GGVS/GGVE

GGVS/GGVE :	Class 3	Number 31	Letter C
RID/ADR:	Class 3	Number 31	Letter C

**15 - REGULATORY INFORMATION**

Classification according to EEC directives:  
 Danger symbol and danger designation: Xn Harmful

Contains: Amino-alkilmetoxysilane

Hazard-determining components of labelling:

R phrases:	10	Flammable.
	22	Harmful if swallowed.
	41	Risk of serious damages to eyes.
	43	May cause sensitisation by skin contact.
S phrases:	08	Keep container dry.
	23	Do not breath vapour
	36/37/39	Wear suitable protective clothing, gloves and eye/face-protection.

D.P.R. 547/55	Incidents prevention regulations.
D.P.R. 303/56	Work sanitary measures.
Law 319/76	Waste water.

## 16 - OTHER INFORMATION

Absorption:

Harmful if swallowed. Form methyl alcohol and may cause serious damages to person in dose of >200 mg/Kg.

L.D 50 not determined

FOR PROFESSIONAL USE ONLY

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This data are based on our present knowledge. The final user have to check suitability and completeness of this information according to the specific requested needs. This safety data sheets cancel and substitute any previous edition.

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