

## 1 Identification

- **Product identifier**
  - *Product number* LPA857
  - *Trade name:* **POLYESTER CLEAR SEALER**
    - *Application of the substance / the mixture* For professional use
- **Details of the supplier of the safety data sheet**
  - *Manufacturer/Supplier:*  
IVM Chemicals srl  
Viale della Stazione 3 - 27020 Parona (PV) Italy tel +39 038425441
  - *Information department:*  
Environmental Health and safety office  
hseoffice@ivmchemicals.com
  - *Emergency telephone number:*  
ChemTel Expert Assistance Hotline/SDS Fax Access by dialing 1-800-255-3924 or for International +1-813-248-0585.

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 1 H372 Causes damage to the hearing organs through prolonged or repeated exposure.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

- **Label elements**

- *GHS label elements*

The product is classified and labeled according to the Globally Harmonized System (GHS).

- *Hazard pictograms*



GHS02



GHS07



GHS08

- *Signal word* Danger

- *Hazard-determining components of labeling:*

styrene

toluene

- *Hazard statements*

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

**Product number LPA857**

**Trade name: POLYESTER CLEAR SEALER**

(Contd. of page 1)

H319 Causes serious eye irritation.

H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

H372 Causes damage to the hearing organs through prolonged or repeated exposure.

**Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Classification system:**

**NFPA ratings (scale 0 - 4)**



Health = 1

Fire = 3

Reactivity = 0

**HMIS-ratings (scale 0 - 4)**



Health = \*1

Fire = 3

Reactivity = 0

### 3 Composition/information on ingredients

**Chemical characterization: Mixtures**

**Description:** Mixture: consisting of the following components.

**Dangerous components:**

100-42-5	styrene	30-49.9%
	Flam. Liq. 3, H226 Carc. 2, H351; Repr. 2, H361; STOT RE 1, H372 Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319	
108-88-3	toluene	1-2.49%
	Flam. Liq. 2, H225 Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304 Skin Irrit. 2, H315; STOT SE 3, H336 Aquatic Chronic 3, H412	
57-55-6	propane-1,2-diol	1-2.49%
67-56-1	methanol	0.5-1%
	Flam. Liq. 2, H225 Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 STOT SE 1, H370	
100-41-4	ethylbenzene	0.1-<0.5%
	Flam. Liq. 2, H225 Carc. 2, H351; STOT RE 2, H373; Asp. Tox. 1, H304 Acute Tox. 4, H332	

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(Contd. on page 3)

**Product number LPA857**

**Trade name: POLYESTER CLEAR SEALER**

(Contd. of page 2)

#### 4 First-aid measures

· **Description of first aid measures**

· **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:**

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

Take off immediately all contaminated clothing, include underwear and shoes (if necessary).

Rinse thoroughly with plenty of water for at least 20 minutes and take medical advise. If medical advise is needed have products container or label at hand.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist , consult a doctor.

· **After swallowing:** Do not induce vomiting; immediately call for medical help.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed**

For symptoms and effects caused by substances, refer to Section 11.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

#### 5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:** Alcohol resistant foam, CO, powder, water spray/mist.

· **For safety reasons unsuitable extinguishing agents:**

Do not use a jet water stream as it may scatter and spread fire.

· **Special hazards arising from the substance or mixture**

During heating or in case of fire poisonous gases are produced.

· **Advice for firefighters**

Cool by spraying with water the containers to prevent product decomposition and the development of substances potentially hazardous for health and also, in the case of closed containers exposed to flames to prevent explosions.

· **Protective equipment:**

Hardhat with visor, fireproof clothing, suitable gloves and if necessary respiratory protective device.

#### 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources

· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to Section 13.

Ensure adequate ventilation.

(Contd. on page 4)

**Product number LPA857**

**Trade name: POLYESTER CLEAR SEALER**

(Contd. of page 3)

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

· **Handling:**

· **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

Protect against electrostatic charges.

Keep respiratory protective device available.

Use explosion-proof apparatus / fittings and spark-proof tools.

· **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in a cool, well-ventilated area, away from heat and sources of ignition

Provide solvent resistant, sealed floor.

Observe the label precautions, the expiration date for the use, if not indicated, is from delivery date of goods.

In cases where there is no reported expiration date, it means that the product must be used within 8 months.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· **Specific end use(s)** Those typical of the product and the instructions in the data sheet if required.

## 8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

**57-55-6 propane-1,2-diol**

WEEL Long-term value: 10 mg/m

**67-56-1 methanol**

PEL Long-term value: 260 mg/m , 200 ppm

REL Short-term value: 325 mg/m , 250 ppm

Long-term value: 260 mg/m , 200 ppm

Skin

(Contd. on page 5)

# Safety Data Sheet

## 29 CFR Parts 1910 1915 1926

Printing date 09/26/2016

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**Product number LPA857****Trade name: POLYESTER CLEAR SEALER**

(Contd. of page 4)

TLV	Short-term value: 328 mg/m , 250 ppm Long-term value: 262 mg/m , 200 ppm Skin; BEI
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**100-41-4 ethylbenzene**

PEL	Long-term value: 435 mg/m , 100 ppm
REL	Short-term value: 545 mg/m , 125 ppm Long-term value: 435 mg/m , 100 ppm
TLV	Long-term value: 87 mg/m , 20 ppm BEI

**· Ingredients with biological limit values:****100-42-5 styrene**

BEI	400 mg/g creatinine Medium: urine Time: end of shift Parameter: Mandelic acid plus phenylglyoxylic acid (nonspecific)
	0.2 mg/L Medium: venous blood Time: end of shift Parameter: Styrene (semi-quantitative)

**108-88-3 toluene**

BEI	0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene
	0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene
	0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)

**67-56-1 methanol**

BEI	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)
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**100-41-4 ethylbenzene**

BEI	0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)
	- Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative)

**· Additional information:** The lists that were valid during the creation were used as basis.

(Contd. on page 6)

**Product number LPA857**

**Trade name: POLYESTER CLEAR SEALER**

(Contd. of page 5)

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.
- Avoid contact with the eyes and skin.
- Pregnant women should strictly avoid inhalation or skin contact.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**



Protective gloves

Due to missing tests no recommendation to the glove material can be given for the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The glove material has to be impermeable and resistant to the product .

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

- **Form:** Liquid
- **Color:** According to product specification
- **Odor:** Characteristic
- **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

- **Melting point/Melting range:** Undetermined.
- **Boiling point/Boiling range:** 124 °C (255 °F)

· **Flash point:** 4 °C (39 °F)

· **Flammability (solid, gaseous):** Not applicable.

(Contd. on page 7)



**Product number LPA857**

**Trade name: POLYESTER CLEAR SEALER**

(Contd. of page 6)

· <b>Ignition temperature:</b>	> 370 °C (> 698 °F)	
· <b>Decomposition temperature:</b>	Not determined.	
· <b>Auto igniting:</b>	Product is not selfigniting.	
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.	
· <b>Explosion limits:</b>		
· <b>Lower:</b>	1.2 Vol %	
· <b>Upper:</b>	12.6 Vol %	
· <b>Vapor pressure at 20 °C (68 °F):</b>	29 hPa (22 mm Hg)	
· <b>Density at 20 °C (68 °F):</b>	1.015 g/cm (8.47 lbs/gal)	
· <b>Relative density</b>	Not determined.	
· <b>Vapor density</b>	Not determined.	
· <b>Evaporation rate</b>	Not determined.	
· <b>Solubility in / Miscibility with</b>		
· <b>Water:</b>	Not miscible or difficult to mix.	
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.	
· <b>Viscosity:</b>		
· <b>Dynamic:</b>	Not determined.	
· <b>Kinematic at 20 °C (68 °F):</b>	101 s (ISO 6 mm)	
· <b>Oxidising properties:</b>	N.A.	
· <b>Solvent content:</b>		
· <b>VOC content:</b>	52.9 % 536.9 g/l / 4.48 lb/gl	
· <b>Solids content:</b>	94.7 %	
· <b>Other information (HAPS)</b>		
100-42-5	styrene	30-49.9%
108-88-3	toluene	1-2,49%
1330-20-7	xylene	0,5-1%
67-56-1	methanol	0,5-1%
100-41-4	ethylbenzene	0.1-<0.5%
111-90-0	2-(2-ethoxyethoxy)ethanol	<0.01%
· <b>Other information</b>	No further relevant information available.	

## 10 Stability and reactivity

- **Reactivity** typical of the product as indicated in the data sheet

- **Chemical stability**

Polymerise spontaneously, if not inhibited, with rapid increase of temperatura. In closed containers, has also rapid increase of reessione. Polymerise violently with reaction that can be explosive by the action of light, heat, strong acids or perossidi. Presence of inhibitors reduces - but does not eliminate - the tendency to polymerization.

- **Thermal decomposition / conditions to be avoided:**

Avoid exposure to direct sunlight or storage or exposure to temperatures higher than 25 °C

- **Possibility of hazardous reactions**

Exothermic polymerization.

(Contd. on page 8)

**Product number LPA857**

**Trade name: POLYESTER CLEAR SEALER**

(Contd. of page 7)

Reacts with acids, alkalis and oxidizing agents.

Vapours may form explosive mixtures with air

· **Conditions to avoid**

Avoid exposure to direct sunlight or storage or exposure to temperatures higher than 25 °C

· **Incompatible materials:** Acids, alkalis and oxidizing agents

· **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

**100-42-5 styrene**

Oral LD50 5000 mg/kg (rat/szczur/mouse/souris/Maus/ratón)

Dermal LD50 2001 mg/kg (rat/szczur/mouse/souris/Maus/ratón)

Inhalative LC50/4 h 11.8 mg/l (rat/szczur/mouse/souris/Maus/ratón)

**108-88-3 toluene**

Oral LD50 5000 mg/kg (rat/szczur/mouse/souris/Maus/ratón)

Dermal LD50 12124 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)

Inhalative LC50/4 h 25.7 mg/l (rat/szczur/mouse/souris/Maus/ratón)

**57-55-6 propane-1,2-diol**

Oral LD50 20000 mg/kg (rat/szczur/mouse/souris/Maus/ratón)

Dermal LD50 2001 mg/kg (rat/szczur/mouse/souris/Maus/ratón)

**67-56-1 methanol**

Oral LD50 1187 mg/kg (rat/szczur/mouse/souris/Maus/ratón)

Dermal LD50 17000 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)

Inhalative LC50/4 h 128.2 mg/l (rat/szczur/mouse/souris/Maus/ratón)

**100-41-4 ethylbenzene**

Oral LD50 3500 mg/kg (rat/szczur/mouse/souris/Maus/ratón)

Dermal LD50 15486 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)

Inhalative LC50/4 h 17.2 mg/l (rat/szczur/mouse/souris/Maus/ratón)

· **Primary irritant effect:**

· **on the skin:** Irritant to skin and mucous membranes.

· **on the eye:** Irritating effect.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

Causes skin irritation.

Causes serious eye irritation.

Suspected of damaging the unborn child.

May cause respiratory irritation.

Causes damage to the hearing organs through prolonged or repeated exposure.

Irritant

· **Carcinogenic categories**

(Contd. on page 9)



**Product number LPA857**

**Trade name: POLYESTER CLEAR SEALER**

(Contd. of page 8)

**Styrene**

An increased incidence of lung tumors was observed in mice from an inhalation study on styrene. The relevance of this finding to humans is uncertain since data from mode of action investigations of mouse lung tumors coupled with other long-term animal studies and epidemiology studies of workers

exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

**Ethylbenzene**

From IARC MONOGRAPHS VOLUME 77/2000

Human carcinogenicity data

Two studies of workers potentially exposed to ethylbenzene in a production plant and a styrene polymerization plant were available. In the first study, no excess of cancer incidence was found but the description of methods was insufficient to allow proper evaluation of this finding. In the second study, no cancer mortality excess was observed during the follow-up of 15 years.

**Evaluation**

There is inadequate evidence in humans for the carcinogenicity of ethylbenzene. There is sufficient evidence in experimental animals for the carcinogenicity of ethylbenzene.

· IARC (International Agency for Research on Cancer - Cl. 1 and 2)		
100-42-5	styrene	2B
108-88-3	toluene	3
1330-20-7	xylene	3
100-41-4	ethylbenzene	2B
· NTP (National Toxicology Program)		
100-42-5	styrene	30-49.9%
· OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		

## 12 Ecological information

**· Toxicity**

· Aquatic toxicity:	
<b>100-42-5 styrene</b>	
EC50	4.9 mg/l (algae) (72 h) 4.7 mg/l (daphnia) (48 h)
LC50 (96h)	4.02 mg/l (Fish)
<b>108-88-3 toluene</b>	
EC50	134 mg/l (algae) (3 h) 3.78 mg/l (daphnia) (48 h) 58 mg/l (Fish)
<b>57-55-6 propane-1,2-diol</b>	
EC50	19000 mg/l (algae) (48 h) 18340 mg/l (daphnia) (48 h)
LC50 (96h)	40613 mg/l (Fish)
<b>67-56-1 methanol</b>	
EC50	8000 mg/l (algae) (72 h) 24500 mg/l (daphnia) (48 h)

(Contd. on page 10)

**Product number LPA857**

**Trade name: POLYESTER CLEAR SEALER**

(Contd. of page 9)

LC50 (96h)	15400 mg/l (Fish)
<b>100-41-4 ethylbenzene</b>	
EC50	75 mg/l (daphnia) (48 h)

· **Persistence and degradability**

Data refers to the substance Toluene CAS No. 108-88-3

Readily biodegradable (according to OECD criteria)

· **Behavior in environmental systems:**

· *Bioaccumulative potential* No further relevant information available.

· *Mobility in soil* No further relevant information available.

· **Additional ecological information:**

· *General notes:*

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

· **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

· **Waste treatment methods**

· *Recommendation:*

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Hand over to hazardous waste disposers.

Dispose of contents and container in accordance with local state and federal regulations.

· **Uncleaned packagings:**

· *Recommendation:* Disposal must be made according to official regulations.

### 14 Transport information

· **UN-Number**

· DOT

NA1263

· IMDG, IATA

UN1263

· **UN proper shipping name**

· DOT

Paint

· IMDG, IATA

PAINT

· **Transport hazard class(es)**

· DOT



· Class

3 Flammable liquids

· Label

3

· Class


3 Flammable liquids

(Contd. on page 11)

**Product number LPA857**

**Trade name: POLYESTER CLEAR SEALER**

(Contd. of page 10)

· <b>Label</b>	3
· <b>IMDG, IATA</b>	
	
· <b>Class</b>	3 Flammable liquids
· <b>Label</b>	3
· <b>Packing group</b>	
· <b>DOT, IMDG, IATA</b>	III
· <b>Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>Special precautions for user</b>	Warning: Flammable liquids
· <b>Danger code (Kemler):</b>	-
· <b>EMS Number:</b>	F-E, S-E
· <b>Stowage Category</b>	A
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN 1263 PAINT, 3, III

## 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

Requirements of Federal Register

· **SARA**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings) :**

100-42-5	styrene	30-49.9%
108-88-3	toluene	1-2,49%
1330-20-7	xylene	0,5-1%
67-56-1	methanol	0,5-1%
100-41-4	ethylbenzene	0.1-<0.5%
1338-02-9	Naphthenic acids, copper salts	<0.01%
111-90-0	2-(2-ethoxyethoxy)ethanol	<0.01%

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

(Contd. on page 12)

**Product number LPA857**

**Trade name: POLYESTER CLEAR SEALER**

(Contd. of page 11)

· **Proposition 65**

· **Chemicals known to cause cancer:**

100-41-4	ethylbenzene	*	0.1-<0.5%
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· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

108-88-3	toluene		1-2,49%
67-56-1	methanol		0,5-1%

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

108-88-3	toluene	II	1-2,49%
1330-20-7	xylene	I	0,5-1%
100-41-4	ethylbenzene	D	0.1-<0.5%

· **TLV (Threshold Limit Value established by ACGIH)**

100-42-5	styrene	A4
108-88-3	toluene	A4
1330-20-7	xylene	A4
100-41-4	ethylbenzene	A3

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **National regulations:**

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** IVM Chemicals Srl

· **Contact:** See emergency phone

· **Date of preparation / last revision** 09/26/2016 / 64

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

(Contd. on page 13)

# Safety Data Sheet

## 29 CFR Parts 1910 1915 1926

Printing date 09/26/2016

Version number 65

Reviewed on 09/26/2016

**Product number LPA857****Trade name: POLYESTER CLEAR SEALER**

(Contd. of page 12)

*BEI: Biological Exposure Limit**Flam. Liq. 2: Flammable liquids . Category 2**Flam. Liq. 3: Flammable liquids . Category 3**Acute Tox. 3: Acute toxicity . Category 3**Acute Tox. 4: Acute toxicity . Category 4**Skin Irrit. 2: Skin corrosion/irritation . Category 2**Eye Irrit. 2A: Serious eye damage/eye irritation . Category 2A**Carc. 2: Carcinogenicity . Category 2**Carc. 2: Carcinogenicity . Category 2**Repr. 2: Reproductive toxicity . Category 2**STOT SE 1: Specific target organ toxicity (single exposure) . Category 1**STOT SE 3: Specific target organ toxicity (single exposure) . Category 3**STOT RE 1: Specific target organ toxicity (repeated exposure) . Category 1**STOT RE 2: Specific target organ toxicity (repeated exposure) . Category 2**Asp. Tox. 1: Aspiration hazard . Category 1**Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard . Category 3***• Sources***REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL and following amendments**Directive 67/548/EEC and following amendments and adjustments**Agency ECHA web site**INRS Fiche Toxicologique**IARC International agency for research on cancer***• \* Data compared to the previous version altered.**

US