

# 24156 SP Thermobond Laminating N/Y Clear

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 08/01/2017

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixtures  
Product name : SP Thermobond Laminating N/Y Clear  
Product code : 24156

#### 1.2. Recommended use and restrictions on use

No additional information available

#### 1.3. Supplier

Polymeric US  
117 East 14<sup>th</sup> Avenue  
North Kansas City MO 64116  
816-221-5567

#### 1.4. Emergency telephone number

Emergency number : Chemtrec 800-424-9300

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Skin corrosion/irritation Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation Category 1	H318	Causes serious eye damage
Skin sensitization Category 1	H317	May cause an allergic skin reaction
Germ cell mutagenicity Category 1B	H340	May cause genetic defects
Carcinogenicity Category 1A	H350	May cause cancer
Reproductive toxicity Category 2	H361	Suspected of damaging fertility or the unborn child
Specific target organ toxicity (single exposure) Category 3	H335	May cause respiratory irritation
Specific target organ toxicity (repeated exposure) Category 2	H373	May cause damage to organs through prolonged or repeated exposure
Hazardous to the aquatic environment - Acute Hazard Category 3	H402	Harmful to aquatic life
Hazardous to the aquatic environment - Chronic Hazard Category 2	H411	Toxic to aquatic life with long lasting effects

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Danger  
Hazard statements (GHS-US) : H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H335 - May cause respiratory irritation

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Precautionary statements (GHS-US)	<p>H340 - May cause genetic defects            H350 - May cause cancer            H361 - Suspected of damaging fertility or the unborn child            H373 - May cause damage to organs through prolonged or repeated exposure            H402 - Harmful to aquatic life            H411 - Toxic to aquatic life with long lasting effects</p> <p>: P202 - Do not handle until all safety precautions have been read and understood            P260 - Do not breathe vapors            P261 - Avoid breathing vapors            P264 - Wash hands, forearms and face, clothing thoroughly after handling            P271 - Use only outdoors or in a well-ventilated area            P272 - Contaminated work clothing must not be allowed out of the workplace            P273 - Avoid release to the environment            P280 - Wear protective gloves, eye protection            P302+P352 - If on skin: Wash with plenty of water            P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing            P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing            P308+P313 - If exposed or concerned: Get medical advice/attention            P310 - Immediately call a doctor            P314 - Get medical advice/attention if you feel unwell            P332+P313 - If skin irritation occurs: Get medical advice/attention            P333+P313 - If skin irritation or rash occurs: Get medical advice/attention            P362+P364 - Take off contaminated clothing and wash it before reuse            P363 - Wash contaminated clothing before reuse            P391 - Collect spillage            P403+P233 - Store in a well-ventilated place. Keep container tightly closed            P405 - Store locked up            P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation</p>
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### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS-US classification
isobornyl acrylate	(CAS No) 5888-33-5	15 - 30	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411
2-phenoxy ethyl acrylate	(CAS No) 48145-04-6	15 - 30	Skin Sens. 1B, H317 Aquatic Chronic 2, H411
ethanol	(CAS No) 64-17-5	10 - 15	Flam. Liq. 2, H225 Carc. 1A, H350
1,6-hexanediol diacrylate	(CAS No) 13048-33-4	< 10	Skin Irrit. 2, H315 Skin Sens. 1, H317
1-ethenyl-2-pyrrolidinone, inhibited	(CAS No) 88-12-0	< 10	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Eye Dam. 1, H318 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373 Aquatic Acute 3, H402
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	(CAS No) 75980-60-8	< 10	Skin Sens. 1B, H317 Repr. 2, H361 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
solvent naphtha(petroleum),light aliphatic	(CAS No) 64742-89-8	< 1	Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304
methyl isobutyl ketone	(CAS No) 108-10-1	< 1	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 Carc. 2, H351 STOT SE 3, H335

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Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/injuries	: Irritation of the nasal mucous membranes. Corrosion of the eye tissue. Caustic burns/corrosion of the skin. Irritation of the eye tissue.
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/injuries after eye contact	: Serious damage to eyes.
Symptoms/injuries after ingestion	: Abdominal pain.

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

#### 5.2. Specific hazards arising from the chemical

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

#### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapors/spray.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8 Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

For containment	: Collect spillage.
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 8 : Exposure-controls/personal protection".

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.
- Hygiene measures : Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
- Incompatible products : Strong bases. strong acids. Oxidizing agent.
- Incompatible materials : Direct sunlight. Heat sources. Combustible materials.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

isobornyl acrylate (5888-33-5)		
Not applicable		
2-phenoxy ethyl acrylate (48145-04-6)		
Not applicable		
1,6-hexanediol diacrylate (13048-33-4)		
Not applicable		
1-ethenyl-2-pyrrolidinone, inhibited (88-12-0)		
ACGIH	ACGIH TWA (ppm)	0.05 ppm
ACGIH	Remark (ACGIH)	Liver dam
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8)		
Not applicable		
ethanol (64-17-5)		
ACGIH	ACGIH STEL (ppm)	1000 ppm (Ethanol; USA; Short time value; TLV - Adopted Value)
methyl isobutyl ketone (108-10-1)		
ACGIH	ACGIH TWA (ppm)	20 ppm (Methyl isobutyl ketone; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
ACGIH	ACGIH STEL (ppm)	75 ppm (Methyl isobutyl ketone; USA; Short time value; TLV - Adopted Value)
solvent naphtha(petroleum),light aliphatic (64742-89-8)		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	1370 mg/m <sup>3</sup>
ACGIH	ACGIH TWA (ppm)	300 ppm
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	<

#### 8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
- Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

##### Hand protection:

Protective gloves

##### Eye protection:

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Safety glasses

### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

Wear respiratory protection

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear, colorless liquid.
Color	: clear
Odor	: acrylate odor
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 212 °F
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 1084 g/l
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

Acids, bases and oxidizing agents

### 10.6. Hazardous decomposition products

No additional information available

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

<b>isobornyl acrylate (5888-33-5)</b>	
LD50 oral rat	4890 mg/kg (Rat; Literature)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit; Literature)
ATE US (oral)	4890.000 mg/kg body weight

<b>2-phenoxy ethyl acrylate (48145-04-6)</b>	
LD50 oral rat	5000 mg/kg (Rat; Experimental value)
LD50 dermal rabbit	2540 mg/kg (Rabbit; Experimental value)
ATE US (oral)	5000.000 mg/kg body weight
ATE US (dermal)	2540.000 mg/kg body weight

<b>1,6-hexanediol diacrylate (13048-33-4)</b>	
LD50 oral rat	> 5000 mg/kg (Rat)
LD50 dermal rabbit	3600 mg/kg (Rabbit)
ATE US (dermal)	3600.000 mg/kg body weight

<b>1-ethenyl-2-pyrrolidinone, inhibited (88-12-0)</b>	
LD50 oral rat	1022 mg/kg 834-1314,Rat; Equivalent or similar to OECD 401; Experimental value
LD50 dermal rat	1043 mg/kg rat
LD50 dermal rabbit	> 400 mg/kg (Rabbit; Experimental value; BASF test)
LC50 inhalation rat (mg/l)	3.07 mg/l/4h (Rat; Experimental value)
ATE US (oral)	1022.000 mg/kg body weight
ATE US (dermal)	1043.000 mg/kg body weight
ATE US (gases)	4500.000 ppmV/4h
ATE US (vapors)	3.070 mg/l/4h
ATE US (dust, mist)	3.070 mg/l/4h

<b>diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8)</b>	
LD50 oral rat	> 2000 mg/kg (Rat; Literature)

<b>ethanol (64-17-5)</b>	
LD50 oral rat	10740 mg/kg body weight (Rat; OECD 401: Acute Oral Toxicity; Experimental value)
LD50 dermal rabbit	> 16000 mg/kg (Rabbit; Literature study)
ATE US (oral)	10740.000 mg/kg body weight

<b>methyl isobutyl ketone (108-10-1)</b>	
LD50 oral rat	2080 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value)
LD50 dermal rat	>= 2000 mg/kg body weight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)
LD50 dermal rabbit	> 16000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	8.2- 16.4,Rat; Experimental value
LC50 inhalation rat (ppm)	2000 - 4000 ppm/4h (Rat; Experimental value)
ATE US (oral)	2080.000 mg/kg body weight
ATE US (gases)	2000.000 ppmV/4h
ATE US (vapors)	11.000 mg/l/4h
ATE US (dust, mist)	1.500 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.  
Serious eye damage/irritation : Causes serious eye damage.  
Respiratory or skin sensitization : May cause an allergic skin reaction.  
Germ cell mutagenicity : May cause genetic defects.  
Carcinogenicity : May cause cancer.

<b>1-ethenyl-2-pyrrolidinone, inhibited (88-12-0)</b>	
IARC group	3 - Not Classifiable

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<b>ethanol (64-17-5)</b>	
IARC group	1 - Carcinogenic to Humans
<b>methyl isobutyl ketone (108-10-1)</b>	
IARC group	2B - Possibly Carcinogenic to Humans
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/injuries after eye contact	: Serious damage to eyes.
Symptoms/injuries after ingestion	: Abdominal pain.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects. Harmful to aquatic life.

<b>1-ethenyl-2-pyrrolidinone, inhibited (88-12-0)</b>	
LC50 fish 1	976 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 72 h; Oncorhynchus mykiss; Static system; Fresh water; Experimental value)
EC50 Daphnia 1	45 mg/l (EC50; Equivalent or similar to OECD 202; 48 h; Daphnia sp.; Static system; Fresh water; Experimental value)
Threshold limit algae 1	> 1000 mg/l (ErC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Desmodesmus subspicatus; Static system; Fresh water; Experimental value)

<b>diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8)</b>	
LC50 fish 1	1 - 10 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 48 h; Oryzias latipes)
EC50 Daphnia 1	10 - 100 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna)
Threshold limit algae 1	> mg/l >10/100, EC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Algae

<b>ethanol (64-17-5)</b>	
LC50 fish 2	13000 mg/l (LC50; 96 h; Salmo gairdneri; Static system; Fresh water)

#### 12.2. Persistence and degradability

<b>isobornyl acrylate (5888-33-5)</b>	
Persistence and degradability	No test data available. No (test)data on mobility of the substance available.

<b>2-phenoxy ethyl acrylate (48145-04-6)</b>	
Persistence and degradability	Biodegradability in water: no data available.

<b>1,6-hexanediol diacrylate (13048-33-4)</b>	
Persistence and degradability	Inherently biodegradable.

<b>1-ethenyl-2-pyrrolidinone, inhibited (88-12-0)</b>	
Persistence and degradability	Readily biodegradable in water. Highly mobile in soil.
Biochemical oxygen demand (BOD)	< 0.002 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1.894 g O <sub>2</sub> /g substance

<b>diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8)</b>	
Persistence and degradability	Not readily biodegradable in water. No (test)data on mobility of the substance available.

<b>ethanol (64-17-5)</b>	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the substance available.
Biochemical oxygen demand (BOD)	0.8 - 0.967 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1.7 g O <sub>2</sub> /g substance
ThOD	2.1 g O <sub>2</sub> /g substance

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<b>methyl isobutyl ketone (108-10-1)</b>	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Low potential for adsorption in soil. Photolysis in the air.
Biochemical oxygen demand (BOD)	2.06 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.16 g O <sub>2</sub> /g substance
ThOD	2.72 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.76

### 12.3. Bioaccumulative potential

<b>isobornyl acrylate (5888-33-5)</b>	
Log Pow	4.21 (Estimated value)
Bioaccumulative potential	Potential for bioaccumulation ( $4 \geq \text{Log Kow} \leq 5$ ).
<b>2-phenoxy ethyl acrylate (48145-04-6)</b>	
Log Pow	2.46 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation ( $\text{Log Kow} < 4$ ).
<b>1,6-hexanediol diacrylate (13048-33-4)</b>	
Bioaccumulative potential	No bioaccumulation data available.
<b>1-ethenyl-2-pyrrolidinone, inhibited (88-12-0)</b>	
Log Pow	0.4 (Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation ( $\text{Log Kow} < 4$ ).
<b>diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8)</b>	
BCF fish 1	< 40 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; Cyprinidae sp.)
Bioaccumulative potential	Low potential for bioaccumulation ( $\text{BCF} < 500$ ).
<b>ethanol (64-17-5)</b>	
Log Pow	-0.35 (Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 24 °C)
Bioaccumulative potential	Low potential for bioaccumulation ( $\text{Log Kow} < 4$ ).
<b>methyl isobutyl ketone (108-10-1)</b>	
BCF fish 1	2 - 5 (BCF)
Log Pow	1.9 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
Bioaccumulative potential	Low potential for bioaccumulation ( $\text{BCF} < 500$ ).

### 12.4. Mobility in soil

<b>1-ethenyl-2-pyrrolidinone, inhibited (88-12-0)</b>	
Log Koc	log Koc, SRC PCKOCWIN v2.0; 1.099 - 1.1497; Calculated value
<b>ethanol (64-17-5)</b>	
Surface tension	0.0245 N/m (20 °C)
<b>methyl isobutyl ketone (108-10-1)</b>	
Surface tension	0.024 N/m (20 °C)
Log Koc	Koc, 101.85; Weight of evidence; Calculated value; log Koc; 2.008; Weight of evidence; Calculated value

### 12.5. Other adverse effects

Effect on the global warming : Unknown

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Follow all local and state regulations regarding disposal.  
Sewage disposal recommendations : Keep out of sewers.  
Product/Packaging disposal recommendations : Avoid release to the environment.



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### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT	: Not regulated <119 gallons, inner packaging
Transport document description	: UN3082 Environmentally hazardous substances, liquid, n.o.s. (contains Isobornyl Acrylate & 2-Phenoxyethyl acrylate), 9, III
UN-No.(DOT)	: UN3082
Proper Shipping Name (DOT)	: Environmentally hazardous substances, liquid, n.o.s. contains Isobornyl Acrylate & 2-Phenoxyethyl acrylate
Class (DOT)	: 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140
Packing group (DOT)	: III - Minor Danger
Hazard labels (DOT)	: 9 - Class 9 (Miscellaneous dangerous materials)



Dangerous for the environment	: Yes
Marine pollutant	: Yes



DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Symbols	: G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	: 8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies. 146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin, transit or destination. 173 - An appropriate generic entry may be used for this material. 335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s.," UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leak-proof when used as bulk packaging. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 155
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: No limit
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: No limit
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	: No supplementary information available.

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### TDG

#### Transport by sea

Transport document description (IMDG) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III  
UN-No. (IMDG) : 3082  
Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
Class (IMDG) : 9 - Miscellaneous dangerous compounds  
Packing group (IMDG) : III - substances presenting low danger  
Limited quantities (IMDG) : 5 L  
Marine pollutant : Yes



#### Air transport

Transport document description (IATA) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III  
UN-No.(IATA) : 3082  
Proper Shipping Name (IATA) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
Class (IATA) : 9 - Miscellaneous Dangerous Goods  
Packing group (IATA) : III - Minor Danger

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

methanol	CAS No 67-56-1	< 1%
methyl isobutyl ketone	CAS No 108-10-1	< 1%
2-phenoxy ethyl acrylate	CAS No 48145-04-6	<20%

<b>methanol (67-56-1)</b>	
CERCLA RQ	5000 lb
<b>ethyl acetate (141-78-6)</b>	
CERCLA RQ	5000 lb
<b>methyl isobutyl ketone (108-10-1)</b>	
CERCLA RQ	5000 lb

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

#### National regulations

<b>ethanol (64-17-5)</b>	
Listed on IARC (International Agency for Research on Cancer)	
<b>methyl isobutyl ketone (108-10-1)</b>	
Listed on IARC (International Agency for Research on Cancer)	

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### 15.3. US State regulations

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity

methanol (67-56-1)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
No	Yes	No	No	

methyl isobutyl ketone (108-10-1)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	Yes	No	No	

1-ethenyl-2-pyrrolidinone, inhibited (88-12-0)
U.S. - New Jersey - Right to Know Hazardous Substance List

ethanol (64-17-5)
U.S. - New Jersey - Right to Know Hazardous Substance List

methanol (67-56-1)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

ethyl acetate (141-78-6)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

methyl isobutyl ketone (108-10-1)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

## SECTION 16: Other information

Revision date : 08/01/2017

Other information : Polymeric urges the customer receiving this safety data sheet to study it carefully to become aware of the hazards, if any, in the product. In the interest of safety, the customer should (1) notify your employees, agents and contractors of the information included in this SDS and (2) furnish a copy to each of your employees, customers and agents.

Polymeric makes no warranty, express or implied, as to the accuracy or reliability of information contained herein, except that such information is, to the best of Polymeric's knowledge and belief, accurate as of the date indicated on this document. Final determination of suitability of material is the sole responsibility of the user. All the materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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Full text of H-phrases:

H225	Highly flammable liquid and vapor
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H340	May cause genetic defects
H350	May cause cancer
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects

SDS US (GHS HazCom 2012)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*