

# SAFETY DATA SHEET (SDS)

**Manufacturer:**

Dymax

**Product Name:**

Dymax OP-56 Optical Adhesive, Fiber Optic Assembly, Transparent, UV Cure - 3ml Syringe

**Manufacturer Part Number:**

OP-56-3ML

▶ [Click here for more details on the Dymax OP-56 Optical Adhesive, Fiber Optic Assembly, Transparent, UV Cure - 3ml Syringe](#)

## SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1272/2008 and Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878

### OP-56

Issuing Date 27-Apr-2023

Revision date 27-Apr-2023

Revision Number 32

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

**1.1. Product identifier****Product Name** OP-56**Pure substance/mixture** Mixture**1.2. Relevant identified uses of the substance or mixture and uses advised against****Recommended use** Adhesives and/or sealants.**Uses advised against** Consumer use.**1.3. Details of the supplier of the safety data sheet****Manufacturer**Dymax Corporation  
318 Industrial Lane  
Torrington, CT 06790  
Tel: 860-482-1010  
Fax: 860-496-0608**Manufacturing sites**Dymax Asia Pacific Pte Ltd.  
Block 5008 (East Wing)  
Ang Mo Kio Ave. 5  
#05-3 TECHplace II  
Singapore 569874  
Tel: +65-6752-2887  
Fax: +65-6752-2813**Supplier**Dymax Asia Pacific Pte Ltd.  
Block 5008 (East Wing)  
Ang Mo Kio Ave. 5  
#05-3 TECHplace II  
Singapore 569874  
Tel: +65-6752-2887  
Fax: +65-6752-2813**For further information, please contact****E-mail address** Product\_Regulatory\_Europe@dymax.com**1.4. Emergency telephone number****Emergency Telephone** Chemtrec @ 001-703-741-5970 (24hrs)

<b>Austria</b> +(43)-13649237	<b>Belgium</b> +(32)-28083237	<b>Bulgaria</b> +(359)-32570104
<b>Croatia</b> +(385)-17776920	<b>Czech Republic</b> +(420)-228880039	<b>Denmark</b> +(45)-69918573
<b>Estonia</b> +(372)-6681294	<b>Finland</b> +(358)-942419014	<b>France</b> +(33)-975181407
<b>Germany</b> 0800-181-7059	<b>Greece</b> +(30)-2111768478	<b>Hungary</b> +(36)-18088425
<b>Ireland</b> +(353)-19014670	<b>Italy</b> 800-789-767	<b>Latvia</b> +(371)-66165504
<b>Lithuania</b> +(370)-52140238	<b>Luxembourg</b> +(352)-20202416	<b>Netherlands</b> +(31)-858880596
<b>Norway</b> +(47)-21930678	<b>Poland</b> +(48)-223988029	<b>Portugal</b> +(351)-308801773
<b>Romania</b> +(40)-37-6300026	<b>Slovakia</b> +(423)-233057972	<b>Slovenia</b> +(386)-18888016
<b>Spain</b> 900-868538	<b>Sweden</b> +(46)-852503403	<b>United Kingdom</b> +(44)-870-8200418
<b>Israel</b> +(972)-37630639	<b>Russia</b> 8-800-100-6346	<b>Saudi Arabia</b> +(966)-8111095861
<b>Switzerland</b> +(41)-435082011	<b>Turkey</b> +(90)-212-7055340	<b>Ukraine</b> +(380)-947101374

#### SECTION 2: Hazards identification

Contact the professionals at Fiber Optic Center for a quote or to get more details.

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

Regulation (EC) No 1272/2008

Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Serious eye damage/eye irritation	Category 1 - (H318)
Skin sensitization	Category 1A - (H317)
Carcinogenicity	Category 2 - (H351)
Specific target organ toxicity (single exposure)	Category 3 - (H335)
Category 3 - Respiratory irritation	
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)
Chronic aquatic toxicity	Category 3 - (H412)

**2.2. Label elements****Signal word** - Danger

Contains 1-vinyl-2-pyrrolidone, 4,4'-(1-Methylethylidene) bisphenol polymer with (chloromethyl)oxirane, 2-propenoate, Bisphenol-A epoxy resin, Tripropylene Glycol Diacrylate Esters

**Hazard statements**

H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H332 - Harmful if inhaled  
H335 - May cause respiratory irritation  
H351 - Suspected of causing cancer  
H373 - May cause damage to organs through prolonged or repeated exposure  
H412 - Harmful to aquatic life with long lasting effects

**Precautionary Statements - EU (§28, 1272/2008)**

P260 - Do not breathe dust/fume/gas/mist/vapors/spray  
P280 - Wear protective gloves/protective clothing/eye protection/face protection. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a POISON CENTER or doctor  
P362 + P364 - Take off contaminated clothing and wash it before reuse

**Additional information**

This product requires tactile warnings if supplied to the general public.

**2.3. Other hazards**

Causes mild skin irritation.

**Product Information**

Environmental product testing for acute and chronic aquatic effects determined classification to be Category 3. OECD Test No. 202: Daphnia sp., Acute Immobilization Test.

**PBT and vPvB assessment**

The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

**Endocrine Disruptor Information****Contact the professionals at Fiber Optic Center for a quote or to get more details.**23 Centre Street • New Bedford, MA 02740 USA • [focenter.com](http://focenter.com)508-992-6464 | (800) 473-4237 • [sales@focenter.com](mailto:sales@focenter.com)

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**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

Not applicable

**3.2 Mixtures**

Chemical name	CAS No	EC No (EU Index No)	REACH registration number	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1-vinyl-2-pyrrolidone	88-12-0	(613-168-00-0) 201-800-4	-	25-39	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Eye Dam. 1 (H318) Carc. 2 (H351) STOT SE 3 (H335) STOT RE 2 (H373)
4,4"-(1-Methylethylidene) bisphenol polymer with (chloromethyl)oxirane, 2-propenoate	55818-57-0	-	-	10-24	Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)
Polyethylene Glycol 600 Diacrylate	26570-48-9	-	-	5-9	Skin Sens. 1A (H317) Eye Dam. 1 (H318)
Bisphenol-A epoxy resin	25068-38-6	(603-074-00-8)	-	3-<5	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)
Tripropylene Glycol Diacrylate Esters	42978-66-5	(607-249-00-X) 256-032-2	-	3-<5	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) STOT SE 3 (H335) Aquatic Chronic 2 (H411)
Benzene, (1-methylethenyl)-, homopolymer, ar-(2-hydroxy-2-methyl-1-oxopropyl) derivs.	163702-01-0	402-990-3	-	1-<3	Repr. 2 (H361f)
1,4-Benzenediol	123-31-9	(604-005-00-4) 204-617-8	-	<0.1	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Muta. 2 (H341) Carc. 2 (H351) Aquatic Acute 1 (H400)

Chemical name	CAS No	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Bisphenol-A epoxy resin	25068-38-6	Eye Irrit. 2 :: C>=5% Skin Irrit. 2 :: C>=5%		
Tripropylene Glycol Diacrylate Esters	42978-66-5	STOT SE 3 :: C>=10%		

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Chemical name	CAS No	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
1,4-Benzenediol	123-31-9		10	

**Acute Toxicity Estimate**

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
1-vinyl-2-pyrrolidone	830	560			
Bisphenol-A epoxy resin	11400				
Tripropylene Glycol Diacrylate Esters	6200	2000			
Benzene, (1-methylethenyl)-, homopolymer, ar-(2-hydroxy-2-methyl-1-oxopropyl) derivs.		2000			
1,4-Benzenediol	298	74800			

**Full text of H- and EUH-phrases: see section 16**

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

**SECTION 4: First aid measures****4.1. Description of first aid measures**

<b>General advice</b>	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.
<b>Inhalation</b>	Remove to fresh air. Get medical attention immediately if symptoms occur. IF exposed or concerned: Get medical advice/attention. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.
<b>Eye contact</b>	Get immediate medical attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water for at least 15 minutes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
<b>Ingestion</b>	Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists. Use personal protective equipment as required. See section 8 for more information.

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**4.2. Most important symptoms and effects, both acute and delayed**

**Symptoms** Burning sensation. Itching. Rashes. Hives. Prolonged contact may cause redness and irritation. Coughing and/ or wheezing. Difficulty in breathing.

**4.3. Indication of any immediate medical attention and special treatment needed**

**Note to physicians** May cause sensitization in susceptible persons. Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

**5.2. Special hazards arising from the substance or mixture**

**Specific hazards arising from the chemical** Product is or contains a sensitizer. May cause sensitization by skin contact.

**5.3. Advice for firefighters**

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapors or mists.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**6.4. Reference to other sections**

**Reference to other sections** See section 8 for more information. See section 13 for more information.

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**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Take off contaminated clothing and wash before reuse. Remove contaminated clothing and shoes. Avoid breathing vapors or mists. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Protect from light.

**General hygiene considerations**

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

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

**Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. Keep container tightly closed in a dry and well-ventilated place. Protect from light.

**Storage class (TRGS 510)**

Storage class 10.

**7.3. Specific end use(s)**

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
1-vinyl-2-pyrrolidone 88-12-0	-	H*	TWA: 0.05 ppm TWA: 0.23 mg/m <sup>3</sup>	-	-
Bisphenol-A epoxy resin 25068-38-6	-	-	-	TWA: 1.0 mg/m <sup>3</sup>	-
1,4-Benzenediol 123-31-9	-	TWA: 2 mg/m <sup>3</sup> STEL 4 mg/m <sup>3</sup> Sensitizer	TWA: 1 mg/m <sup>3</sup>	TWA: 2.0 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup> Skin Sensitisation
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
1-vinyl-2-pyrrolidone 88-12-0	-	-	-	-	TWA: 0.1 ppm TWA: 0.5 mg/m <sup>3</sup>
1,4-Benzenediol 123-31-9	-	TWA: 2 mg/m <sup>3</sup> Ceiling: 4 mg/m <sup>3</sup> * Sensitizer	Ceiling: 2 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup> STEL: 1.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup> STEL: 2 mg/m <sup>3</sup>
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
1-vinyl-2-pyrrolidone 88-12-0	TWA: 0.1 ppm	TWA: 0.005 ppm TWA: 0.025 mg/m <sup>3</sup> H*	TWA: 0.01 ppm TWA: 0.047 mg/m <sup>3</sup> Peak: 0.02 ppm Peak: 0.094 mg/m <sup>3</sup> *	-	-

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Tripolypropylene Glycol Diacrylate Esters 42978-66-5	-	-	skin sensitizer	-	-
1,4-Benzenediol 123-31-9	TWA: 2 mg/m <sup>3</sup>	-	*	TWA: 2 mg/m <sup>3</sup> STEL: 4 mg/m <sup>3</sup>	-
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
1-vinyl-2-pyrrolidone 88-12-0	TWA: 0.05 ppm STEL: 0.15 ppm	-	TWA: 0.05 ppm TWA: 0.23 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	-
1,4-Benzenediol 123-31-9	TWA: 0.5 mg/m <sup>3</sup> STEL: 1.5 mg/m <sup>3</sup> Sensitizer	-	TWA: 1 mg/m <sup>3</sup>	-	Sensitizer TWA: 0.5 mg/m <sup>3</sup> STEL: 1.5 mg/m <sup>3</sup>
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
1,4-Benzenediol 123-31-9	-	-	-	TWA: 0.5 mg/m <sup>3</sup> STEL: 1.5 mg/m <sup>3</sup>	STEL: 2 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
1-vinyl-2-pyrrolidone 88-12-0	TWA: 0.05 ppm	-	-	TWA: 0.05 mg/m <sup>3</sup> TWA: 0.01 ppm STEL: 0.02 ppm STEL: 0.1 mg/m <sup>3</sup> *	-
1,4-Benzenediol 123-31-9	TWA: 1 mg/m <sup>3</sup> Sensitizer dermal	TWA: 1 mg/m <sup>3</sup> STEL: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> *	-	TWA: 2 mg/m <sup>3</sup> sensitizer
Chemical name	Sweden	Switzerland	United Kingdom		
1-vinyl-2-pyrrolidone 88-12-0	-	TWA: 0.02 ppm TWA: 0.09 mg/m <sup>3</sup> STEL: 0.04 ppm STEL: 0.18 mg/m <sup>3</sup> H*	-		
1,4-Benzenediol 123-31-9	NGV: 0.5 mg/m <sup>3</sup> Vägledande KGV: 1.5 mg/m <sup>3</sup> Sensitizer	TWA: 2 mg/m <sup>3</sup> STEL: 2 mg/m <sup>3</sup> H*	TWA: 0.5 mg/m <sup>3</sup> STEL: 1.5 mg/m <sup>3</sup>		

**Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

**Derived No Effect Level (DNEL) - Workers**

No information available

**Derived No Effect Level (DNEL) - General Public**

No information available.

**Predicted No Effect Concentration (PNEC)**

No information available.

**8.2. Exposure controls**

**Engineering controls** No information available.

**Personal protective equipment**

**Eye/face protection** Tight sealing safety goggles.

**Hand protection** Wear suitable gloves. Nitrile rubber, Butyl rubber.

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<b>Skin and body protection</b>	Wear suitable protective clothing.
<b>Respiratory protection</b>	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
<b>General hygiene considerations</b>	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.
<b>Environmental exposure controls</b>	No information available.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid
<b>Appearance</b>	transparent
<b>Color</b>	colorless
<b>Odor</b>	Characteristic.
<b>Odor threshold</b>	No information available

<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>
<b>Melting point / freezing point</b>	No data available	None known
<b>Boiling point / boiling range</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limit in Air</b>		None known
<b>Upper flammability or explosive limits</b>	No data available	
<b>Lower flammability or explosive limits</b>	No data available	
<b>Flash point</b>	101 - °C	Pensky-Martens Closed Cup (PMCC)
<b>Autoignition temperature</b>	240 °C	None known
<b>Decomposition temperature</b>		None known
<b>pH</b>	No data available	None known
<b>pH (as aqueous solution)</b>	No data available	None known
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	1,800 cP	
<b>Water solubility</b>	No data available	None known
<b>Solubility(ies)</b>	No data available	None known
<b>Partition coefficient</b>	No data available	None known
<b>Vapor pressure</b>	No data available	None known
<b>Relative density</b>	No data available	None known
<b>Bulk density</b>	No data available	
<b>Liquid Density</b>	No data available	
<b>Relative vapor density</b>	No data available	None known
<b>Particle characteristics</b>		
<b>Particle Size</b>	No information available	
<b>Particle Size Distribution</b>	No information available	

**9.2. Other information**

**9.2.1. Information with regard to physical hazard classes**  
Not applicable

**9.2.2. Other safety characteristics**  
No information available

**SECTION 10: Stability and reactivity**

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**10.1. Reactivity**

Reactivity No information available.

**10.2. Chemical stability**

Stability Stable under normal conditions.

**Explosion data**

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

**10.3. Possibility of hazardous reactions**

Possibility of hazardous reactions None under normal processing.

**10.4. Conditions to avoid**

Conditions to avoid Excessive heat.

**10.5. Incompatible materials**

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.

**10.6. Hazardous decomposition products**

Hazardous decomposition products None known based on information supplied.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Information on likely routes of exposure****Product Information****Inhalation** Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. Harmful by inhalation. (based on components).**Eye contact** Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.**Skin contact** Specific test data for the substance or mixture is not available. May cause irritation. May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes mild skin irritation.**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.**Symptoms related to the physical, chemical and toxicological characteristics****Symptoms** Redness. Burning. May cause blindness. Itching. Rashes. Hives. Prolonged contact may cause redness and irritation. Coughing and/ or wheezing.**Acute toxicity**

Numerical measures of toxicity

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# SAFETY DATA SHEET (SDS)



**Manufacturer:**

Dymax

**Product Name:**

Dymax OP-56 Optical Adhesive, Fiber Optic Assembly, Transparent, UV Cure - 3ml Syringe

**Manufacturer Part Number:**

OP-56-3ML

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OP-56 - OP-56

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The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	2,248.50 mg/kg
ATEmix (dermal)	2,874.80 mg/kg
ATEmix (inhalation-dust/mist)	4.15 mg/l

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
1-vinyl-2-pyrrolidone	= 830 mg/kg ( Rat )	= 560 mg/kg ( Rabbit )	= 3070 mg/m <sup>3</sup> ( Rat ) 4 h
Bisphenol-A epoxy resin	= 11400 mg/kg ( Rat )	-	-
Tripropylene Glycol Diacrylate Esters	= 6200 mg/kg ( Rat )	> 2 g/kg ( Rabbit )	-
Benzene, (1-methylethenyl)-, homopolymer, ar-(2-hydroxy-2-methyl-1-oxopropyl) derivs.	-	= 2000 mg/kg ( Rat )	-
1,4-Benzenediol	= 298 mg/kg ( Rat )	= 74800 mg/kg ( Rabbit )	-

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** May cause skin irritation. Classification based on data available for ingredients. Causes mild skin irritation.

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes burns. Causes serious eye damage.

**Respiratory or skin sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity** No information available.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as mutagenic.

Chemical name	European Union
1,4-Benzenediol	Muta. 2

**Carcinogenicity** Contains a known or suspected carcinogen. Classification based on data available for ingredients. Suspected of causing cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	European Union
1-vinyl-2-pyrrolidone	Carc. 2
1,4-Benzenediol	Carc. 2

**Reproductive toxicity** Contains a known or suspected reproductive toxin. Classification based on data available for ingredients.

**STOT - single exposure** May cause respiratory irritation.

**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

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Aspiration hazard No information available.

**11.2. Information on other hazards**

11.2.1. Endocrine disrupting properties  
Endocrine disrupting properties

11.2.2. Other information

Other adverse effects No information available.

**SECTION 12: Ecological information**

**12.1. Toxicity**

Ecotoxicity Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
1-vinyl-2-pyrrolidone	EC50: =780mg/L (72h, <i>Desmodesmus subspicatus</i> )	LC50 976 mg/L 96 h ( <i>Oncorhynchus mykiss</i> )	-	EC50: =45mg/L (48h, <i>Daphnia</i> species)
Tripropylene Glycol Diacrylate Esters	EC50: >28mg/L (72h, <i>Desmodesmus subspicatus</i> )	-	-	EC50: =88.7mg/L (48h, <i>Daphnia magna</i> )
1,4-Benzenediol	EC50: =0.335mg/L (72h, <i>Pseudokirchneriella subcapitata</i> )	LC50: =0.044mg/L (96h, <i>Oncorhynchus mykiss</i> ) LC50: =0.044mg/L (96h, <i>Pimephales promelas</i> ) LC50: 0.1 - 0.18mg/L (96h, <i>Pimephales promelas</i> ) LC50: =0.17mg/L (96h, <i>Brachydanio rerio</i> )	-	EC50: =0.29mg/L (48h, <i>Daphnia magna</i> )

**12.2. Persistence and degradability**

Persistence and degradability No information available.

**12.3. Bioaccumulative potential**

Bioaccumulation

**Component Information**

Chemical name	Partition coefficient
1-vinyl-2-pyrrolidone	0.4
4,4'-(1-Methylethylidene) bisphenol polymer with (chloromethyl)oxirane, 2-propenoate	3.8
Tripropylene Glycol Diacrylate Esters	2
Benzene, (1-methylethenyl)-, homopolymer, ar-(2-hydroxy-2-methyl-1-oxopropyl) derivs.	4.53
1,4-Benzenediol	0.59

**12.4. Mobility in soil**

Mobility in soil No information available.

**12.5. Results of PBT and vPvB assessment**

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**PBT and vPvB assessment** The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

Chemical name	PBT and vPvB assessment
1-vinyl-2-pyrrolidone	The substance is not PBT / vPvB
4,4'-(1-Methylethylidene) bisphenol polymer with (chloromethyl)oxirane, 2-propenoate	The substance is not PBT / vPvB
Bisphenol-A epoxy resin	The substance is not PBT / vPvB
Tripropylene Glycol Diacrylate Esters	The substance is not PBT / vPvB
Benzene, (1-methylethenyl)-, homopolymer, ar-(2-hydroxy-2-methyl-1-oxopropyl) derivs.	The substance is not PBT / vPvB
1,4-Benzenediol	The substance is not PBT / vPvB

**12.6. Endocrine disrupting properties**

**Endocrine disrupting properties** No information available.

**12.7. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

**Waste from residues/unused products** Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.

**Contaminated packaging** Do not reuse empty containers.

**SECTION 14: Transport information****IATA**

14.1 UN number or ID number Not regulated  
14.2 Extended Proper Shipping Name Not regulated  
14.3 Transport hazard class(es) Not regulated  
14.4 Packing group Not regulated  
14.5 Environmental hazards Not applicable  
14.6 Special precautions for user Special Provisions None

**IMDG**

14.1 UN number or ID number Not regulated  
14.2 Extended Proper Shipping Name Not regulated  
14.3 Transport hazard class(es) Not regulated  
14.4 Packing group Not regulated  
14.5 Environmental hazards Not applicable  
14.6 Special precautions for user Special Provisions None  
14.7 Maritime transport in bulk according to IMO instruments No information available

**RID**

14.1 UN number or ID number Not regulated

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14.2 Extended Proper Shipping Name Not regulated  
14.3 Transport hazard class(es) Not regulated  
14.4 Packing group Not regulated  
14.5 Environmental hazards Not applicable  
14.6 Special precautions for user Special Provisions None

**ADR**

14.1 UN number or ID number Not regulated  
14.2 Extended Proper Shipping Name Not regulated  
14.3 Transport hazard class(es) Not regulated  
14.4 Packing group Not regulated  
14.5 Environmental hazards Not applicable  
14.6 Special precautions for user Special Provisions None

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****France****Occupational Illnesses (R-463-3, France)**

Chemical name	French RG number
1-vinyl-2-pyrrolidone - 88-12-0	RG 84
1,4-Benzenediol - 123-31-9	RG 65

**Germany**

**Water hazard class (WGK)** slightly hazardous to water (WGK 1) Classification according to AwSV.

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Authorizations and/or restrictions on use:**

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
1-vinyl-2-pyrrolidone - 88-12-0	75.	-
Bisphenol-A epoxy resin - 25068-38-6	75.	-
Tripropylene Glycol Diacrylate Esters - 42978-66-5	75.	-
1,4-Benzenediol - 123-31-9	75.	-

**Persistent Organic Pollutants**

Not applicable

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable

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**International Inventories**

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Not Listed
AIIC	Complies
NZIoC	Complies

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
ENCS - Japan Existing and New Chemical Substances  
IECSC - China Inventory of Existing Chemical Substances  
KECL - Korean Existing and Evaluated Chemical Substances  
PICCS - Philippines Inventory of Chemicals and Chemical Substances  
AIIC - Australian Industrial Chemicals Introduction Scheme  
NZIoC - New Zealand Inventory of Chemicals

**15.2. Chemical safety assessment**

**Chemical Safety Report** No information available

**SECTION 16: Other information****Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under section 3**

H302 - Harmful if swallowed  
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  
H341 - Suspected of causing genetic defects  
H351 - Suspected of causing cancer  
H361f - Suspected of damaging fertility  
H373 - May cause damage to organs through prolonged or repeated exposure  
H400 - Very toxic to aquatic life  
H411 - Toxic to aquatic life with long lasting effects

**Legend**

SVHC: Substances of Very High Concern for Authorization:  
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals  
vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitizers		

Classification procedure

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Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	On basis of test data
Chronic aquatic toxicity	On basis of test data
Aspiration hazard	Calculation method
Ozone	Calculation method

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)  
European Chemicals Agency (ECHA) (ECHA\_API)  
EPA (Environmental Protection Agency)  
Acute Exposure Guideline Level(s) (AEGL(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
National Institute of Technology and Evaluation (NITE)  
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

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This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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