

**Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product identifier**

**Product name** INK BOTTLE,LM,1000ML  
 UFI:WGDD-2X0D-UH4U-4AMM

**Product code** T49V6

**Pure substance/mixture** mixture

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Recommended Use** Ink jet ink (UV curing)

**Uses advised against** No information available

**1.3. Details of the supplier of the safety data sheet**

<b>Company Name</b>	<b>Importer / Supplier</b>
EPSON EUROPE B.V. Azie building, Atlas ArenA, Hoogoorddreef 5,1101 BA Amsterdam Zuidoost The Netherlands Phone number: +31-20-314-5000	-

For further information, please contact

**Contact Point** +31-20-314-5000  
**Email address** chemicals@epson.eu

**1.4. Emergency telephone number**

**Emergency telephone** Phone number: +31-20-314-5000  
 Giftnotruf Berlin; +49 (0)30 30686 790  
 Antigif Belgisch; +32 (0)70 245 245  
 Austria; +43 1 406 43 43

**Section 2: HAZARDS IDENTIFICATION**

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

**Regulation (EC) No 1272/2008**

<b>Acute toxicity - Oral</b>	Category 4 - (H302)
<b>skin corrosion/irritation</b>	Category 2 - (H315)
<b>Serious eye damage/eye irritation</b>	Category 1 - (H318)
<b>Skin sensitization</b>	Category 1A - (H317)
<b>Reproductive toxicity</b>	Category 2 - (H361)
<b>Specific target organ toxicity (repeated exposure)</b>	Category 1 - (H372)
<b>Chronic aquatic toxicity</b>	Category 2 - (H411)

## 2.2. Label elements

### Symbols/Pictograms



**signal word**  
DANGER

### Hazard Statements

H302 - Harmful if swallowed

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H372 - Causes damage to organs through prolonged or repeated exposure

H411 - Toxic to aquatic life with long lasting effects

H361 - Suspected of damaging fertility or the unborn child

Contains 2-Propenoic acid, phenylmethyl ester

2H-Azepin-2-one, 1-ethenylhexahydro-  
Morpholine, 4-(1-oxo-2-propenyl)-

2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-

Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide

2-Propenoic acid, 2-(2-ethoxyethoxy)ethyl ester

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.',.alpha."-1,2,3-propanetriyltris[.omega.-[(1-oxo-2-propenyl)oxy]-

1,6-Hexanediol diacrylate

2,5-Cyclohexadien-1-one, 2,6-bis(1,1-dimethylethyl)-4-(phenylmethylene)-

4-Methoxyphenol

EUH208 - May produce an allergic reaction

### precautionary statements

P264 - Wash hands thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P330 - Rinse mouth

P501 - Dispose of contents/container in accordance with applicable regulations

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P362 - Take off contaminated clothing and wash before reuse

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/physician

P272 - Contaminated work clothing should not be allowed out of the workplace

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P363 - Wash contaminated clothing before reuse

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P405 - Store locked up

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P314 - Get medical advice/attention if you feel unwell

P273 - Avoid release to the environment

P391 - Collect spillage

P280 - Wear protective gloves/protective clothing/eye protection/face protection

## 2.3. Other hazards

Other Hazards Toxic to aquatic life

General Hazards No information available

**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substances**

**3.2 mixtures**

Ingredients contributing to the classification of the mixture, etc.

Chemical name	EC No	CAS No	weight-%	Classification according to 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP] / Other	REACH registration number
2-Propenoic acid, phenylmethyl ester	219-673-9	2495-35-4	40-50	Xi; R36/38-43	Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) Skin Sens. 1 (H317)	-
Morpholine, 4-(1-oxo-2-propenyl)-	-	5117-12-4	10-20	Xn; R22-48/22 Xi; R41 R43	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Skin Sens. 1 (H317) STOT RE 2 (H373)	-
2H-Azepin-2-one, 1-ethenylhexahydro-	218-787-6	2235-00-9	10-20	Xn; R22 Xi; R36-43 T; R48/23	Acute Tox. 4 (H302) Eye Irrit. 2 (H319) Skin Sens. 1B (H317) STOT RE 1 (H372)	-
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	278-355-8	75980-60-8	5-10	Repr.Cat.3; R62	Repr. 2 (H361f) Repr. 2 (H361i)	-
2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-	227-561-6	5888-33-5	5-10	Xi; R36/37/38-43 N; R50-53	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1B (H317) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-
2-Propenoic acid, 2-(2-ethoxyethoxy)ethyl ester	230-811-7	7328-17-8	1-5	-	Acute Tox. 4 (H302) Acute Tox. 3 (H311) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1A (H317) Aquatic Chronic 2 (H411)	-
Benzene, ethenyl-, copolymer with 2,5-Furandione and Benzene, 1,1'-(1,1-dimethyl-3-methylene-1,3-propanediyl)bis-, rp. with Oxirane, methyl, polymer with oxirane,	-	-	< 1	N; R50	Aquatic Acute 1 (H400)	-

2-aminopropyl methyl ether and 1,3-Propanediamine, N,N-dimethyl-, Oxirane, mono[(C10-16-alkyloxy)methyl] derivs. - quaternised, compound with Benzoic acid						
1,6-Hexanediol diacrylate	235-921-9	13048-33-4	< 1	Xi; R36/38 R43	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-
Poly[oxy(methyl-1,2-ethanediy)], .alpha.,.alpha.',.alpha."-1,2,3-propanetriyltris[.omega.-(1-oxo-2-propenyl)oxy]-	-	52408-84-1	< 1	Xi; R36-43	Eye Irrit. 2A (H319) Skin Sens. 1 (H317)	-
2,5-Cyclohexadien-1-one, 2,6-bis(1,1-dimethylethyl)-4-(phenylmethylene)-	-	7078-98-0	< 1	R43 R53	Skin Sens. 1 (H317) Aquatic Chronic 4 (H413)	-
4-Methoxyphenol	205-769-8	150-76-5	< 1	Xn; R22 Xi; R36 R43	Acute Tox. 4 (H302) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Skin Irrit. 2 (H315) Aquatic Acute 3 (H402)	-

**Full text of R-phrases: see section 16**

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

## Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

**General advice**

Immediate medical attention is required  
If symptoms persist, call a physician  
Do not breathe dust/fume/gas/mist/vapors/spray  
Do not get in eyes, on skin, or on clothing  
May produce an allergic reaction

**Inhalation**

Remove to fresh air  
Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation  
Seek immediate medical attention/advice  
If breathing is irregular or stopped, administer artificial respiration  
Move to fresh air in case of accidental inhalation of vapors  
If symptoms persist, call a physician  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
IF INHALED: Call a POISON CENTER or doctor if you feel unwell

**Skin contact**

Immediate medical attention is required  
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes

	<p>Wash contaminated clothing before reuse          Wash off immediately with soap and plenty of water          If skin irritation persists, call a physician          Get medical attention if irritation develops and persists</p>
<b>Eye contact</b>	<p>Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes          Keep eye wide open while rinsing          Call a physician immediately          Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes          If symptoms persist, call a physician          If eye irritation persists: Get medical advice/attention</p>
<b>INGESTION</b>	<p>Do NOT induce vomiting          Clean mouth with water and drink afterwards plenty of water          Never give anything by mouth to an unconscious person          Call a physician or poison control center immediately          Call a physician          Potential for aspiration if swallowed          Get medical attention          Clean mouth with water</p>
<b>Self-protection of the first aider</b>	<p>Use personal protection recommended in Section 8          Avoid contact with skin, eyes or clothing</p>

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

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

<b>Note to physicians</b>	<p>May cause sensitization of susceptible persons          Treat symptomatically</p>
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**Section 5: FIRE FIGHTING MEASURES**

**5.1. Extinguishing media**

<b>Suitable Extinguishing Media</b>	<p>CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam, mist of alkali salts water          Move containers from fire area if you can do it without risk          Use extinguishing measures that are appropriate to local circumstances and the surrounding environment          Remove combustible materials from their surroundings immediately</p>
<b>Unsuitable Extinguishing Media</b>	<p>Do not use a solid water stream as it may scatter and spread fire</p>

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

<b>Specific hazards arising from the chemical</b>	<p>In the event of fire and/or explosion do not breathe fumes          May cause sensitization by inhalation and skin contact          Thermal decomposition can lead to release of irritating and toxic gases and vapors          The product causes irritation of eyes, skin and mucous membranes</p>
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**5.3. Advice for firefighters**

<b>Special protective equipment for fire-fighters</b>	<p>Wear self contained breathing apparatus for fire fighting if necessary          Use personal protective equipment as required          In the event of fire and/or explosion do not breathe fumes</p>
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	Special protective equipment for fire-fighters
<b>Special Extinguishing Media</b>	Cool container with water spray
<b>Flammable properties</b>	May re-ignite after fire is extinguished Flammable/combustible material

## **Section 6: ACCIDENTAL RELEASE MEASURES**

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

<b>Personal precautions</b>	Use personal protective equipment as required Keep people away from and upwind of spill/leak Evacuate personnel to safe areas Stay upwind ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area) Avoid contact with skin, eyes and inhalation of vapors In the case of vapor formation use a respirator with filter model In case of fire: Stop leak if safe to do so Do not touch damaged containers or spilled material unless wearing appropriate protective clothing Ensure adequate ventilation, especially in confined areas Take precautionary measures against static discharges
<b>other information</b>	Ventilate the area

### **6.2. Environmental precautions**

<b>Environmental Precautions</b>	Prevent further leakage or spillage if safe to do so Prevent product from entering drains Do not flush into surface water or sanitary sewer system See Section 12 for additional Ecological Information Dispose of contents/container to an approved waste disposal plant Avoid release to the environment Collect spillage
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### **6.3. Methods and material for containment and cleaning up**

<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so Cover powder spill with plastic sheet or tarp to minimize spreading Dike far ahead of liquid spill for later disposal
<b>Methods for cleaning up</b>	Cover liquid spill with sand, earth or other non-combustible absorbent material Cover powder spill with plastic sheet or tarp to minimize spreading Sweep up and shovel into suitable containers for disposal Soak up with inert absorbent material Dam up Pick up and transfer to properly labeled containers Use only non-sparking tools

### **6.4. Reference to other sections**

## **Section 7: HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

<b>Advice on safe handling</b>	Avoid contact with skin, eyes or clothing
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Wash contaminated clothing before reuse  
 Do not eat, drink or smoke when using this product  
 Use personal protection recommended in Section 8  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Use with local exhaust ventilation  
 Take precautionary measures against static discharges  
 Use only in well-ventilated areas  
 Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea  
 Wash hands thoroughly and gargle after handling  
 Burn or dispose of the wiping cloths used to clean up the product at once

**General Hygiene Considerations**

When using do not eat, drink or smoke  
 Regular cleaning of equipment, work area and clothing is recommended  
 Avoid contact with skin, eyes or clothing  
 Wash hands thoroughly after handling  
 Keep away from food, drink and animal feeding stuffs

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

**Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place  
 Keep out of the reach of children  
 Keep in properly labeled containers  
 Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity)  
 Use spark-proof tools and explosion-proof equipment  
 Incompatible with oxidizing agents  
 The product shall be stored in the original containers/vessels  
 Polymerisation is caused by ultra violet rays or heat. Store in a cool, dark and well-ventilated place. Containers/vessels should be tightly closed

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

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

**8.1. Control parameters**

Chemical name	European Union	United Kingdom	France	Spain	Germany
4-Methoxyphenol	-	-	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	-

Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
4-Methoxyphenol	-	TWA: 5 mg/m <sup>3</sup>	-	-	TWA: 5 mg/m <sup>3</sup>

Chemical name	Austria	Switzerland	Poland	Norway	Ireland	Sweden	Czech Republic	Luxembourg
4-Methoxyphenol	STEL: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	-	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> STEL: 15 mg/m <sup>3</sup>	-	-	-

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available

**8.2. Exposure controls**

<b>Engineering Controls</b>	Ensure adequate ventilation, especially in confined areas Showers Eyewash stations Ventilation systems
<b>Personal protective equipment</b>	
<b>Eye/face Protection</b>	Tight sealing safety goggles Face protection shield Wear safety glasses with side shields (or goggles)
<b>Hand Protection</b>	Wear protective gloves
<b>Skin and Body Protection</b>	Suitable protective clothing Gloves made of plastic or rubber Wear suitable protective clothing Apron Protective shoes or boots
<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment Respirator cartridge should be exchanged at regular intervals or at proper time according to breakthrough time
<b>Environmental exposure controls</b>	Local authorities should be advised if significant spillages cannot be contained Do not allow into any sewer, on the ground or into any body of water Prevent product from entering drains

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

<b>Physical State</b>	liquid		
<b>appearance</b>	No information available	<b>ODR</b>	characteristic odour
<b>color</b>	colored	<b>odor threshold</b>	No information available
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
<b>pH</b>	not applicable		
<b>Melting point/freezing point</b>	no data available		
<b>Boiling point/boiling range</b>	no data available	No information available	
<b>Flash Point</b>	≥94°C	Ceta Closed Cup	
<b>Evaporation Rate</b>	no data available	No information available	
<b>Combustibility</b>	no data available		
<b>Flammability Limits in Air</b>			
<b>Upper flammability limits</b>	no data available		
<b>Lower Flammability Limit</b>	no data available		
<b>vapor pressure</b>	no data available	No information available	
<b>Vapor Density</b>	no data available	No information available	
<b>Specific gravity</b>	1.00-1.10		
<b>solubility(ies)</b>			
<b>Water solubility</b>	Immiscible in water		
<b>Organic Solvent Solubility</b>	soluble in organic solvents		
<b>Partition coefficient</b>	no data available	No information available	
<b>Autoignition Temperature</b>	no data available	No information available	
<b>decomposition temperature</b>	no data available	No information available	



**Kinematic viscosity** no data available  
**Explosive properties** No information available  
**Oxidizing properties** No information available

**9.2. Other information**

**Softening point** no data available  
**Density** no data available

Chemical name	Boiling point °C	Density	vapor pressure	Vapor Density	Flash Point	Autoignition Temperature
2-Propenoic acid, phenylmethyl ester	228 °C 1013.25 hPa	1.0573 g/cm3 at 20 °C	-	-	-	-
1,6-Hexanediol diacrylate	-	-	0.0005 mmHg at 21 °C	-	132 °C closed cup	-
4-Methoxyphenol	243 - 246 °C	-	-	4.3	132 °C open cup	421 °C

**Section 10: STABILITY AND REACTIVITY**

**10.1. Reactivity**

**Remarks** no data available

**10.2. Chemical stability**

**stability** Stable under normal conditions  
 Polymerization can occur  
 Heating may cause an explosion

**Explosion data**

**Sensitivity to Mechanical Impact** May be ignited by heat, sparks or flames  
**Sensitivity to Static Discharge** May be ignited by heat, sparks or flames

**10.3. Possibility of hazardous reactions**

**10.4. Conditions to avoid**

**Conditions to Avoid** Take precautionary measures against static discharges  
 Extremes of temperature and direct sunlight  
 Heat

**10.5. Incompatible materials**

**Incompatible Materials** Heat; Strong acids; OXIDIZERS; Alkali; light; peroxides; radical initiators

**10.6. Hazardous decomposition products**

**Hazardous Decomposition Products** May emit toxic fumes under fire conditions

**Section 11: TOXICOLOGICAL INFORMATION**

Repeated or prolonged contact may cause allergic reactions in very susceptible persons  
 May cause sensitization by skin contact  
 May cause sensitization by inhalation and skin contact

**11.1. Information on toxicological effects**

**Acute toxicity**

**Inhalation** Reference to other sections; 4  
**Eye contact** Reference to other sections; 4  
**Skin contact** Reference to other sections; 4  
**INGESTION** Reference to other sections; 4

**Unknown acute toxicity** 7.0% of the mixture consists of ingredient(s) of unknown toxicity

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

**ATEmix (oral)** 1,459.40  
**ATEmix (dermal)** 6,666.70

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	Classification according to 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP] / Other	Japan GHS Classification / Other
2-Propenoic acid, phenylmethyl ester	-	-	-	Xi; R36/38-43	Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) Skin Sens. 1 (H317)	Skin Irrit. 2 Eye Irrit. 2A Skin Sens. 1
Morpholine, 4-(1-oxo-2-propenyl)-	-	-	-	Xn; R22-48/22 Xi; R41 R43	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Skin Sens. 1 (H317) STOT RE 2 (H373)	-
2H-Azepin-2-one, 1-ethenylhexahydro-	-	-	-	Xn; R22 Xi; R36-43 T; R48/23	Acute Tox. 4 (H302) Eye Irrit. 2 (H319) Skin Sens. 1B (H317) STOT RE 1 (H372)	Acute Tox. Oral 4 Eye Irrit. 2 Skin Sens. 1B STOT RE 1
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	-	-	-	Repr.Cat.3; R62	Repr. 2 (H361f) Repr. 2 (H361)	-
2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-	-	-	-	Xi; R36/37/38-43 N; R50-53	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1B (H317) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	Skin Irrit. 2 Eye Irrit. 2 Skin Sens. 1B STOT SE 3 Aquatic Acute 1 Aquatic Chronic 1
2-Propenoic acid, 2-(2-ethoxyethoxy)ethyl ester	-	-	-	-	Acute Tox. 4 (H302) Acute Tox. 3 (H311) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1A (H317) Aquatic Chronic 2 (H411)	Acute Tox. Oral 4 Acute Tox. Der. 3 Skin Irrit. 2 Eye Irrit. 2 Skin Sens. 1A Aquatic Chronic 2
Benzene, ethenyl-, copolymer with 2,5-Furandione and Benzene, 1,1'-(1,1-dimethyl-3-methyl	-	-	-	N; R50	Aquatic Acute 1 (H400)	Aquatic Acute 1

ene-1,3-propanediyl)bis-, rp. with Oxirane,methyl, polymer with oxirane, 2-aminopropyl methyl ether and 1,3-Propanediamine, N,N-dimethyl-, Oxirane, mono[(C10-16-alkyloxy)met hyl] derivs. - quaternised, compound with Benzoic acid						
1,6-Hexanediol diacrylate	-	-	-	Xi; R36/38 R43	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	Aquatic Chronic 1 Aquatic Acute 1 Skin Sens. 1
Poly[oxy(methyl-1,2-ethane diyl)], .alpha.,.alpha.',.alpha ,"-1,2,3-propanetriyltris,om ega.-(1-oxo-2-propenyl)ox y]-	-	-	-	Xi; R36-43	Eye Irrit. 2A (H319) Skin Sens. 1 (H317)	Eye Irrit. 2A Skin Sens. 1
2,5-Cyclohexadien-1-one, 2,6-bis(1,1-dimethylethyl)-4 -(phenylmethylene)-	-	-	-	R43 R53	Skin Sens. 1 (H317) Aquatic Chronic 4 (H413)	-
4-Methoxyphenol	1600 mg/kg ( Rat )	-	-	Xn; R22 Xi; R36 R43	Acute Tox. 4 (H302) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Skin Irrit. 2 (H315) Aquatic Acute 3 (H402)	Skin Irrit. 2 Eye Irrit. 2A Aquatic Acute 3 Acute Tox. Oral 4

**GHS/CLP Classification Note:**

Acute Tox. Der. :Acute toxicity - Dermal, Acute Tox. Inh. (D/M) :Acute toxicity - Inhalation - Dusts and Mists, Acute Tox. Inh. (Gas) :Acute toxicity - Inhalation - Gases, Acute Tox. Inh. (Vap) :Acute toxicity - Inhalation - Vapours, Acute Tox. Oral :Acute toxicity - Oral, Aquatic Acute :Acute Hazardous to the aquatic environment, Aquatic Chronic :Chronic Hazardous to the aquatic environment, Asp. Tox. :Aspiration hazard, Carc. :Carcinogenicity, Expl. :Explosives, Eye Dam. :Serious eye damage, Eye Irrit. :Eye irritation, Flam. Gas :Flammable gases (including chemically unstable gases), Flam. Liq. :Flammable liquids, Flam. Solid :Flammable solids, Lact. :Effects on or via lactation, Met. Corr. :Corrosive to metals, Muta. :Germ cell mutagenicity, Org. Perox. :Organic peroxides, Ox. Gas :Oxidizing gases, Ox. Liq. :Oxidizing liquids, Ox. Sol. :Oxidizing solids, Press. Gas :Gases under pressure, Pyr. Liq. :Pyrophoric liquids, Pyr. Sol. :Pyrophoric solids, Repr. :Reproductive toxicity, Resp. Sens. :Respiratory sensitization, Self-heat. :Self-heating substances and mixtures, Self-react. :Self-reactive substances and mixtures, Skin Corr. :Skin corrosion, Skin Irrit. :Skin irritation, Skin Sens. :Skin sensitization, STOT RE :Specific target organ toxicity – Repeated exposure, STOT SE :Specific target organ toxicity – Single exposure, Water-react. :Substances and mixtures which, in contact with water emit flammable gases

<b>skin corrosion/irritation</b>	No information available
<b>Serious eye damage/eye irritation</b>	No information available
<b>Sensitization</b>	No information available
<b>Germ cell mutagenicity</b>	No information available
<b>Carcinogenicity</b>	No information available
<b>Reproductive toxicity</b>	No information available

<b>STOT - single exposure</b>	No information available
<b>STOT - repeated exposure</b>	No information available
<b>Aspiration hazard</b>	No information available

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

90.4% of the mixture consists of component(s) of unknown hazards to the aquatic environment

### 12.2. Persistence and degradability

**Persistence and degradability** No information available

### 12.3. Bioaccumulative potential

**Bioaccumulation** No information available

Chemical name	Partition coefficient
4-Methoxyphenol	1.34

### 12.4. Mobility in soil

**Mobility in soil** No information available

### 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** No information available

### 12.6. Other adverse effects

**Other adverse effects** No information available

## Section 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

<b>Waste from Residues/Unused Products</b>	Should not be released into the environment Disposal should be in accordance with applicable regional, national and local laws and regulations
<b>Contaminated packaging</b>	Improper disposal or reuse of this container may be dangerous and illegal
<b>other information</b>	Waste codes should be assigned by the user based on the application for which the product was used Store in a tightly sealed drum to prevent the spillage of the content

## Section 14: TRANSPORT INFORMATION

Containers/vessels must be leakage-free. Loading must be done to prevent containers from

falling, dropping down and being damaged  
Take necessary steps to prevent collapse  
Use opaque containers/vessels for storage and transport

**UN Number** UN3082  
**Packing Group** III  
**ERG Code** 171  
**Proper Shipping Name** Environmentally hazardous substances, liquid, n.o.s

**IMDG**

**14.1 UN Number** UN3082  
**14.2 Proper Shipping Name** Environmentally hazardous substances, liquid, n.o.s  
**14.3 Hazard Class** 9  
**14.4 Packing Group** III  
**Environmental hazard** yes  
**14.6 Special Provisions** None  
**EmS-No** F-A, S-F  
**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** No information available

**RID**

**14.1 UN Number** UN3082  
**14.2 Proper Shipping Name** Environmentally hazardous substances, liquid, n.o.s  
**14.3 Hazard Class** 9  
**14.4 Packing Group** III  
**14.5 Environmental hazard** yes  
**Classification code** M6  
**14.6 Special Provisions** None

**ADR**

**14.1 UN Number** UN3082  
**14.2 Proper Shipping Name** Environmentally hazardous substances, liquid, n.o.s  
**14.3 Hazard Class** 9  
**Labels** 9  
**14.4 Packing Group** III  
**14.5 Environmental hazard** yes  
**14.6 Special Provisions** None  
**Classification code** M6  
**Tunnel restriction code** (E)

**ICAO (air)**

**14.1 UN Number** UN3082  
**14.2 Proper Shipping Name** Environmentally hazardous substances, liquid, n.o.s  
**14.3 Hazard Class** 9  
**14.4 Packing Group** III  
**14.5 Environmental hazard** yes  
**14.6 Special Provisions** None

**IATA**

**14.1 UN Number** UN3082  
**14.2 Proper Shipping Name** Environmentally hazardous substances, liquid, n.o.s  
**14.3 Hazard Class** 9  
**14.4 Packing Group** III  
**14.5 Environmental hazard** yes  
**14.6 Special Provisions** None  
**ERG Code** 9L

**Section 15: REGULATORY INFORMATION**

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

Chemical name	CAS No	French RG number	Seveso III Directive
2-Propenoic acid, phenylmethyl ester	2495-35-4	-	No information available
Morpholine, 4-(1-oxo-2-propenyl)-	5117-12-4	-	No information available
2H-Azepin-2-one, 1-ethenylhexahydro-	2235-00-9	-	No information available
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	75980-60-8	-	No information available
2-Propenoic acid, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-	5888-33-5	-	No information available
2-Propenoic acid, 2-(2-ethoxyethoxy)ethyl ester	7328-17-8	-	No information available
Benzene, ethenyl-, copolymer with 2,5-Furandione and Benzene, 1,1'-(1,1-dimethyl-3-methylene-1,3-propane diyl)bis-, rp. with Oxirane,methyl, polymer with oxirane, 2-aminopropyl methyl ether and 1,3-Propanediamine, N,N-dimethyl-, Oxirane, mono[(C10-16-alkyloxy)methyl] derivs. - quaternised, compound with Benzoic acid	-	-	No information available
1,6-Hexanediol diacrylate	13048-33-4	-	No information available
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.,.alpha.-1,2,3-propanetriyltris[.omega.-[(1-oxo-2-propenyl)oxy]-	52408-84-1	-	No information available
2,5-Cyclohexadien-1-one, 2,6-bis(1,1-dimethylethyl)-4-(phenylmethyle ne)-	7078-98-0	-	No information available
4-Methoxyphenol	150-76-5	RG 65	No information available

**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

Authorisations and/or restrictions on use: This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

**TSCA SNUR's Component Information**

This product contains a substance subject to a TSCA section 5 SNUR codified at 40 C.F.R. 721.5185. Please refer to 40 C.F.R. Part 721 and 40 C.F.R. 721.5185. (Morpholine, 4-(1-oxo-2-propenyl)-)

This product contains a substance subject to a TSCA section 5 SNUR codified at 40 C.F.R. 721.9664. Please refer to 40 C.F.R. Part 721 and 40 C.F.R. 721.9664. (2,4-Diethyl-9H-thioxanthen-9-one)

**Section 16: OTHER INFORMATION**

**Full text of R-phrases referred to under sections 2 and 3**

R22 - Harmful if swallowed

R36 - Irritating to eyes

R41 - Risk of serious damage to eyes

R43 - May cause sensitization by skin contact  
R50 - Very toxic to aquatic organisms  
R62 - Possible risk of impaired fertility  
R36/37/38 - Irritating to eyes, respiratory system and skin  
R36/38 - Irritating to eyes and skin  
R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed  
R48/23 - Toxic: danger of serious damage to health by prolonged exposure through inhalation  
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

**Full text of H-Statements referred to under section 3**

H302 - Harmful if swallowed  
H311 - Toxic 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  
H335 - May cause respiratory irritation  
H361 - Suspected of damaging fertility or the unborn child  
H361f - Suspected of damaging fertility  
H372 - Causes damage to organs through prolonged or repeated exposure if inhaled  
H373 - May cause damage to organs through prolonged or repeated exposure if inhaled  
H400 - Very toxic to aquatic life  
H402 - Harmful to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects  
H411 - Toxic to aquatic life with long lasting effects  
H413 - May cause long lasting harmful effects to aquatic life

**Key literature references and sources for data**                      LOLI Database (ChemADVISOR, Inc.)

**Issue Date**    12-Jul-2019 (DD-MM-YYYY)

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

**Disclaimer**

**The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text**

**End of Safety Data Sheet**