

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

#### 1.1. Product identifier

Product form : Mixtures  
Product name : 1910 Series UV Banner Screen Ink  
Product code : 469  
Synonyms : This SDS covers all formulations in the range. Not all of the components listed will be present in an individual formulation. Formula specific SDS available on request.

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

##### 1.2.1. Relevant identified uses

Main use category : Professional use  
Use of the substance/mixture : PRINTING INK

##### 1.2.2. Uses advised against

No additional information available

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

GL Specialized Inks (Pty) Ltd  
8 Hawthorne Place  
Mahogany Ridge  
Westmead  
Durban  
Telephone: +27 (0)31 700 6455  
Fax: +27 (0)31 700 6187

After hours:  
082 451 6588 (Jay)  
082 780 8837 (Julie)

www.gl-inks.com  
jay@gl-inks.com

#### 1.4. Emergency telephone number

No additional information available

### SECTION 2: Hazards identification

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

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Sensitisation — Skin, Category 1	H317
Specific target organ toxicity — Repeated exposure, Category 1	H372
Hazardous to the aquatic environment — Chronic Hazard, Category 3	H412

Full text of H statements : see section 16

##### Adverse physicochemical, human health and environmental effects

Causes damage to organs through prolonged or repeated exposure. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



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Signal word (CLP)	: Danger
Hazardous ingredients	: 1-vinylhexahydro-2H-azepin-2-one; 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one; 2-HYDROXY-2-METHYLPROPIOPHENONE 70-90%; hexamethylene diacrylate, hexane-1,6-diol diacrylate; ISOBORNYL ACRYLATE; 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid; mequinol, 4-methoxyphenol, hydroquinone monomethyl ether; acrylic acid, monoester with propane-1,2-diol; 2-phenoxyethyl acrylate
Hazard statements (CLP)	: H302 - Harmful if swallowed H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H372 - Causes damage to organs through prolonged or repeated exposure H412 - Harmful to aquatic life with long lasting effects
Precautionary statements (CLP)	: P260 - Do not breathe fume, mist, spray, vapours P280 - Wear eye protection, protective clothing, protective gloves P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell P302+P352 - IF ON SKIN: Wash with plenty of soap and water P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P314 - Get medical advice/attention if you feel unwell P330 - Rinse mouth P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Titanium Dioxide substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (AT, BE, BG, DE, DK, ES, FR, GB, GR, IT, LT, LV, NL, PT, SE)	(CAS-No.) 13463-67-7 (EC-No.) 236-675-5 (REACH-no) 01-2119489379-17	< 60	Not classified
2-phenoxyethyl acrylate	(CAS-No.) 48145-04-6. (EC-No.) 256-360-6	10 - 40	Skin Sens. 1, H317
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	(CAS-No.) 55818-57-0 (EC-No.) 500-130-2	1 - 40	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Calcium carbonate substance with national workplace exposure limit(s) (FR, LV, PL, PT)	(CAS-No.) 471-34-1 (EC-No.) 207-439-9	< 40	Not classified
1-vinylhexahydro-2H-azepin-2-one	(CAS-No.) 2235-00-9 (EC-No.) 218-787-6 (REACH-no) 01-2119977109-27	1 - 40	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT RE 1, H372
SILICA substance with national workplace exposure limit(s) (DE, LV)	(CAS-No.) 7631-86-9 (EC-No.) 231-545-4 (REACH-no) 01-2119379499-16	1 - 10	Not classified
2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with methyl 2-methyl-2-propenoate	(CAS-No.) 30795-64-3	1 - 10	Eye Irrit. 2, H319
Carbon Black substance with national workplace exposure limit(s) (BE, DK, ES, FI, FR, GB, GR, IE, IT, PT, SE)	(CAS-No.) 1333-86-4 (EC-No.) 215-609-9	< 10	Not classified
ISOBORNYL ACRYLATE	(CAS-No.) 5888-33-5 (EC-No.) 227-561-6	1 - 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
LAURYL ACRYLATE	(CAS-No.) 2156-97-0 (EC-No.) 218-463-4 (REACH-no) 01-2119976296-23-XXXX	1 - 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411

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acrylic acid, monoester with propane-1,2-diol	(CAS-No.) 25584-83-2 (EC-No.) 247-118-0 (EC Index-No.) 607-108-00-2	0,1 - 10	Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Skin Sens. 1, H317
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	(CAS-No.) 71868-10-5 (EC-No.) 400-600-6 (EC Index-No.) 606-041-00-6	1 - 10	Acute Tox. 4 (Oral), H302 Aquatic Chronic 2, H411
2-HYDROXY-2-METHYLPROPIOPHENONE 70-90%	(CAS-No.) 7473-98-5 (EC-No.) 231-272-0	1 - 10	Acute Tox. 4 (Oral), H302 Aquatic Chronic 3, H412
hexamethylene diacrylate, hexane-1,6-diol diacrylate	(CAS-No.) 13048-33-4 (EC-No.) 235-921-9 (EC Index-No.) 607-109-00-8	0,1 - 10	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	(CAS-No.) 119313-12-1 (EC-No.) 404-360-3 (EC Index-No.) 606-047-00-9	1 - 10	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
mequinol, 4-methoxyphenol, hydroquinone monomethyl ether	(CAS-No.) 150-76-5 (EC-No.) 205-769-8 (EC Index-No.) 604-044-00-7	< 1	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1, H317

### Specific concentration limits:

Name	Product identifier	Specific concentration limits
acrylic acid, monoester with propane-1,2-diol	(CAS-No.) 25584-83-2 (EC-No.) 247-118-0 (EC Index-No.) 607-108-00-2	(C >= 0,2) Skin Sens. 1, H317

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Call a poison center or a doctor if you feel unwell.
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. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.

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

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

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

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

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

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 : Ventilate spillage area. Do not breathe fume, mist, spray, vapours. Avoid contact with skin and eyes.

#### 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.

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

Methods for cleaning up : Take up liquid spill into absorbent material.

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Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Do not breathe fume, mist, spray, vapours. Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures : 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 in a well-ventilated place. Keep cool.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Carbon Black (1333-86-4)		
United Kingdom	Local name	Carbon black
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	3,5 mg/m <sup>3</sup>
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
Titanium Dioxide (13463-67-7)		
EU	Local name	Titanium dioxide
EU	Notes	SCOEL Recommendations (Ongoing)
United Kingdom	Local name	Titanium dioxide
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	4 mg/m <sup>3</sup> respirable 10 mg/m <sup>3</sup> total inhalable

### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Personal protective equipment:

Avoid all unnecessary exposure. Safety glasses. Gloves. Protective clothing.

#### Hand protection:

Protective gloves

#### Eye protection:

Eye protection should only be necessary where liquid could be splashed or sprayed. Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment



#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

Physical state : Liquid

Colour : Various.

Odour : Sweet, slight.

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Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: > 150 °C
Flash point	: > 95 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Combustible liquid
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0,95 - 1,4 g/cm <sup>3</sup>
Solubility	: insoluble in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 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

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

ATE CLP (oral)	1769,912 mg/kg bodyweight
<b>Calcium carbonate (471-34-1)</b>	
LD50 oral	> 2000 mg/kg bodyweight
LD50 dermal	> 2000 mg/kg bodyweight
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 3000 mg/l/4h
<b>SILICA (7631-86-9)</b>	
LD50 oral	> 5000 mg/kg bodyweight
LD50 dermal	> 2000 mg/kg bodyweight
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 2080 mg/l/4h
<b>Titanium Dioxide (13463-67-7)</b>	
LD50 oral	> 5000 mg/kg bodyweight
LD50 dermal	> 10000 mg/kg bodyweight
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 6820 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.

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Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified

### SECTION 12: Ecological information

#### 12.1. Toxicity

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

Calcium carbonate (471-34-1)	
LC50 fish 1	> 100 mg/l
EC50 other aquatic organisms 1	> 100 mg/l EC50 waterflea (48 h)
SILICA (7631-86-9)	
LC50 fish 1	> 10000 mg/l
EC50 other aquatic organisms 1	> 10000 mg/l EC50 waterflea (48 h)
Titanium Dioxide (13463-67-7)	
LC50 fish 1	> 10000 mg/l
EC50 other aquatic organisms 1	> 10000 mg/l EC50 waterflea (48 h)
EC50 other aquatic organisms 2	> 10000 mg/l IC50 algea (72 h) mg/l

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

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

No additional information available

#### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Ecology - waste materials : Avoid release to the environment.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

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### 14.6. Special precautions for user

#### - Overland transport

Not applicable

#### - Transport by sea

Not applicable

#### - Air transport

Not applicable

#### - Inland waterway transport

Not applicable

#### - Rail transport

Not applicable

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - hexamethylene diacrylate, hexane-1,6-diol diacrylate - acrylic acid, monoester with propane-1,2-diol - hexamethylene diacrylate, hexane-1,6-diol diacrylate - acrylic acid, monoester with propane-1,2-diol
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	1910 Series UV Banner Screen Ink - 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 2-HYDROXY-2-METHYLPROIOPHENONE 70-90% - hexamethylene diacrylate, hexane-1,6-diol diacrylate - 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with methyl 2-methyl-2-propenoate - ISOBORNYL ACRYLATE - LAURYL ACRYLATE - 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid - acrylic acid, monoester with propane-1,2-diol - 2-phenoxyethyl acrylate
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	1910 Series UV Banner Screen Ink - 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 2-HYDROXY-2-METHYLPROIOPHENONE 70-90% - ISOBORNYL ACRYLATE - LAURYL ACRYLATE - 1910 Series UV Banner Screen Ink - 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 2-HYDROXY-2-METHYLPROIOPHENONE 70-90% - ISOBORNYL ACRYLATE - LAURYL ACRYLATE

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

##### Germany

VwVwS Annex reference : Water hazard class (WGK) 3, severe hazard to waters (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

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NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

### Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed  
Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, Category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H331	Toxic if inhaled
H335	May cause respiratory irritation
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

SDS EU (REACH Annex II)

*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*