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

**1.1. Product identifier**

**Trade name or designation of the mixture** UVgel 460 ink White

**Other means of identification**

**Article Number** 1070125789,1070124421  
**Registration number** -  
**UFI:** V690-R082-S00N-FCQ9  
**Synonyms** None.  
**Product code** 6125C001AA, 6125C002AA

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

**Identified uses** Inkjet printing ink.  
**Uses advised against** Other uses not recommended.

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

**Supplier** Canon Production Printing Netherlands B.V.  
**Address** Van der Grintenstraat 10  
**City** 5914 HH Venlo  
**Country** The Netherlands  
**Telephone number** +31 77 359 2222  
**E-mail address** sds-hq@cpp.canon

**1.4. Emergency telephone number**

**National Poison Information** 112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

**SECTION 2: Hazards identification**

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

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

**Classification according to Regulation (EC) No 1272/2008 as amended**

**Health hazards**

Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.
Skin sensitisation	Category 1	H317 - May cause an allergic skin reaction.
Carcinogenicity	Category 2	H351 - Suspected of causing cancer.

**Environmental hazards**

Hazardous to the aquatic environment, long-term aquatic hazard	Category 2	H411 - Toxic to aquatic life with long lasting effects.
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**2.2. Label elements**

**Label according to Regulation (EC) No. 1272/2008 as amended**

**Contains:** (5-Ethyl-1,3-dioxan-5-yl)methyl acrylate, 2-Phenoxyethyl acrylate, 2-Propenoic acid, 1,6-hexanediyl ester, polymer with 2-aminoethanol, Trimethylolpropane triacrylate

**Hazard pictograms**



<b>Signal word</b>	Warning
<b>Hazard statements</b>	
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H411	Toxic to aquatic life with long lasting effects.

### Precautionary statements

#### Prevention

P273	Avoid release to the environment.
P280	Wear protective gloves and eye/face protection.

#### Response

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.

#### Storage

Not available.

#### Disposal

Not available.

### Supplemental label information

EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

### 2.3. Other hazards

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
(5-Ethyl-1,3-dioxan-5-yl)methyl acrylate	40 - < 60	66492-51-1 266-380-7	01-2119976303-36-XXXX	-	<b>Classification:</b> Skin Irrit. 2;H315, Skin Sens. 1B;H317, Aquatic Chronic 2;H411
2-Propenoic acid, 1,6-hexanediyl ester, polymer with 2-aminoethanol	1 - < 5	67906-98-3 -	-	-	<b>Classification:</b> Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1;H317
Alcohol	1 - < 5	Proprietary -	-	-	<b>Classification:</b> Eye Irrit. 2;H319
Trimethylolpropane triacrylate	1 - < 5	15625-89-5 239-701-3	-	607-111-00-9	<b>Classification:</b> Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1;H317, Carc. 2;H351, STOT SE 3;H335, Aquatic Acute 1;H400(M=1), Aquatic Chronic 1;H410(M=1) <b>Specific Concentration Limits:</b> STOT SE 3;H335: C ≥ 10 %
2-Propenoic acid, reaction products with 2,2'-[oxybis(methylene)]bis[2-ethyl-1,2-propanediol]	1 - < 2.5	1393932-71-2 302-434-9	01-2119977121-41-XXXX	-	<b>Classification:</b> Eye Irrit. 2;H319, Skin Sens. 1;H317, Aquatic Chronic 2;H411
hexamethylene diacrylate; hexane-1,6-diol diacrylate	< 1	13048-33-4 235-921-9	-	607-109-00-8	<b>Classification:</b> Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1;H317, Aquatic Acute 1;H400, Aquatic Chronic 1;H410
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	< 1	162881-26-7 423-340-5	01-2119489401-38-xxxx	015-189-00-5	<b>Classification:</b> Skin Sens. 1A;H317, Aquatic Chronic 4;H413
2-Phenoxyethyl acrylate	< 0.25	48145-04-6 256-360-6	-	-	<b>Classification:</b> Skin Sens. 1A;H317, Repr. 2;H361, Aquatic Chronic 2;H411

## List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. #: This substance has been assigned Union workplace exposure limit(s).

## SECTION 4: First aid measures

<b>General information</b>	IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.
<b>4.1. Description of first aid measures</b>	
<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. Get medical attention if symptoms occur.
<b>4.2. Most important symptoms and effects, both acute and delayed</b>	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

## SECTION 5: Firefighting measures

<b>General fire hazards</b>	No unusual fire or explosion hazards noted.
<b>5.1. Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Use extinguishing agent suitable for type of surrounding fire.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>5.2. Special hazards arising from the substance or mixture</b>	Not available.
<b>5.3. Advice for firefighters</b>	
<b>Special protective equipment for firefighters</b>	Wear suitable protective equipment.
<b>Special fire fighting procedures</b>	Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.

## SECTION 6: Accidental release measures

<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	
<b>For non-emergency personnel</b>	Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material.
<b>For emergency responders</b>	Keep unnecessary personnel away. Avoid breathing mist/vapours. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. Use personal protection recommended in Section 8 of the SDS.
<b>6.2. Environmental precautions</b>	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
<b>6.3. Methods and material for containment and cleaning up</b>	Prevent entry into waterways, sewer, basements or confined areas.  Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.  Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.  Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers.

**6.4. Reference to other sections**

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing mist/vapours. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

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

Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

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

Industrial

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limits****Ireland. OELVs, Schedules 1 & 2, Code of Practice for Chemical Agents and Carcinogens Regulations**

Components	Type	Value	Form
Titanium dioxide (CAS 13463-67-7)	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Total inhalable dust.

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures**

Follow standard monitoring procedures.

**Derived no effect levels (DNELs)****Workers**

Components	Value	Assessment factor	Notes
2-Propenoic acid, reaction products with 2,2'-[oxybis(methylene)]bis[2-ethyl-1,2-propanediol] (CAS 1393932-71-2)			
Long-term, Systemic, Dermal	1.67 mg/kg bw/day	300	Repeated dose toxicity
Long-term, Systemic, Inhalation	5.88 mg/m3	75	Repeated dose toxicity

**Predicted no effect concentrations (PNECs)**

Components	Value	Assessment factor	Notes
2-Propenoic acid, reaction products with 2,2'-[oxybis(methylene)]bis[2-ethyl-1,2-propanediol] (CAS 1393932-71-2)			
Freshwater	0.001 mg/l	1000	
Marine water	0 mg/l	10000	
Sediment (freshwater)	0.484 mg/kg		
Sediment (marine water)	0.048 mg/kg		
Soil	0.096 mg/kg		
STP	100 mg/l	10	

**8.2. Exposure controls****Appropriate engineering controls**

Provide adequate ventilation. See operator manual or safety data sheet of the printer.

**Individual protection measures, such as personal protective equipment****General information**

Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection**

If contact is likely, safety glasses with side shields are recommended.

**Skin protection****- Hand protection**

Wear appropriate chemical resistant gloves.: Ansell Microflex ® 93-260 (240 minutes)

**- Other**

No special protective equipment required.

**Respiratory protection**

Not required during normal intended use of this product.

**Thermal hazards**

Not normally needed.

**Hygiene measures**

Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

**Environmental exposure controls**

Contain spills and prevent releases and observe national regulations on emissions. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

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

<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Colour</b>	White.
<b>Odour</b>	Very faint.
<b>Melting point/freezing point</b>	Not available.
<b>Boiling point or initial boiling point and boiling range</b>	Not available
<b>Flammability</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Explosive limit - lower (%)</b>	Not applicable
<b>Explosive limit – upper (%)</b>	Not applicable
<b>Flash point</b>	139.0 °C (282.2 °F)
<b>Auto-ignition temperature</b>	300 °C (572 °F)
<b>Decomposition temperature</b>	Not available.
<b>pH</b>	Not applicable
<b>Kinematic viscosity</b>	Not available.
<b>Solubility</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water) (log value)</b>	Not available.
<b>Vapour pressure</b>	<70 mbar at 70 C
<b>Density and/or relative density</b>	
<b>Density</b>	1.25 g/cm <sup>3</sup> at 25 C 1.20 g/cm <sup>3</sup> at 70
<b>Vapour density</b>	Not available.
<b>Particle characteristics</b>	Not available.
<b>9.2. Other information</b>	
<b>9.2.1. Information with regard to physical hazard classes</b>	No relevant additional information available.
<b>9.2.2. Other safety characteristics</b>	
<b>Viscosity</b>	> 190 - < 250 mPa·s at 17 C 12.5 mPa·s at 70 C
<b>VOC</b>	3.24 % 2010/75/EU 0 % Switzerland

**SECTION 10: Stability and reactivity**

<b>10.1. Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>10.2. Chemical stability</b>	Material is stable under normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>10.4. Conditions to avoid</b>	Contact with incompatible materials.
<b>10.5. Incompatible materials</b>	None known.
<b>10.6. Hazardous decomposition products</b>	No hazardous decomposition products are known.

**SECTION 11: Toxicological information****Information on likely routes of exposure**

<b>Inhalation</b>	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
<b>Skin contact</b>	Causes skin irritation. May cause an allergic skin reaction.

<b>Eye contact</b>	Causes serious eye irritation.
<b>Ingestion</b>	Health injuries are not known or expected under normal use.
<b>Symptoms</b>	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Acute toxicity** Based on available data, the classification criteria are not met.

Components	Species	Test Results
(5-Ethyl-1,3-dioxan-5-yl)methyl acrylate (CAS 66492-51-1)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 2000 mg/kg
<b>Oral</b>		
LD50	Rat	> 2000 mg/kg
2-Phenoxyethyl acrylate (CAS 48145-04-6)		
<b>Acute</b>		
<b>Oral</b>		
LD50	Rat	5000 mg/kg
2-Propenoic acid, reaction products with 2,2'-[oxybis(methylene)]bis[2-ethyl-1,2-propanediol] (CAS 1393932-71-2)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rat	> 2000 mg/kg, 24 Hours
<b>Inhalation</b>		
<i>Vapour</i>		
LC50	Rat	> 0.41 mg/l, 7 Hours read across
<b>Oral</b>		
LD50	Rat	> 5000 mg/kg OECD401
hexamethylene diacrylate; hexane-1,6-diol diacrylate (CAS 13048-33-4)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	3650 mg/kg, 24 Hours
<b>Oral</b>		
LD50	Rat	> 5000 mg/kg
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide (CAS 162881-26-7)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rat	> 2000 ml/kg
<b>Oral</b>		
LD50	Rat	> 2000 mg/kg
Trimethylolpropane triacrylate (CAS 15625-89-5)		
<b>Acute</b>		
<b>Oral</b>		
LD50	Rat	> 5000 mg/kg
<b>Skin corrosion/irritation</b> Causes skin irritation.		
<b>Irritation Corrosion - Skin</b>		
hexamethylene diacrylate; hexane-1,6-diol diacrylate		OECD 404 Result: Irritating Species: Rabbit
(5-Ethyl-1,3-dioxan-5-yl)methyl acrylate		OECD 404 Result: Irritating Species: Rat
Trimethylolpropane triacrylate		OECD 404 Result: Irritating Species: Rat
2-Propenoic acid, reaction products with 2,2'-[oxybis(methylene)]bis[2-ethyl-1,2-propanediol]		OECD 404 Result: Not irritating Species: Rabbit

<b>Irritation Corrosion - Skin</b>		
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide		OECD 404 Result: Not irritating Species: Rabbit
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.	
<b>Eye</b>		
(5-Ethyl-1,3-dioxan-5-yl)methyl acrylate		EU B,5 Result: Not irritating Species: Rabbit
hexamethylene diacrylate; hexane-1,6-diol diacrylate		OECD 405 Result: Irritating Species: Rabbit
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide		OECD 405 Result: Not irritating Species: Rabbit
Trimethylolpropane triacrylate		OECD 405 Result: Irritating
<b>Irritation Corrosion - Eye</b>		
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide		OECD 405 Result: Not irritating
2-Propenoic acid, reaction products with 2,2'-[oxybis(methylene)]bis[2-ethyl-1,2-propanediol]		OECD405 Result: Irritating
<b>Respiratory sensitisation</b>	Not a respiratory sensitiser.	
<b>Skin sensitisation</b>	May cause an allergic skin reaction.	
<b>Skin Sensitisation</b>		
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide		OECD 406 Result: sensitising Species: Guinea pig
hexamethylene diacrylate; hexane-1,6-diol diacrylate		OECD 406, GMPT Result: sensitising Species: Guinea pig
2-Propenoic acid, reaction products with 2,2'-[oxybis(methylene)]bis[2-ethyl-1,2-propanediol]		OECD 429 Result: positive Species: Mouse
(5-Ethyl-1,3-dioxan-5-yl)methyl acrylate		OECD 429 Result: sensitising Severity: EC3=2,8%
hexamethylene diacrylate; hexane-1,6-diol diacrylate		OECD 429, LLNA Result: sensitising Species: Mouse Severity: EC3 = 0,9%
Trimethylolpropane triacrylate		Result: sensitising Species: Human
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
<b>Germ cell mutagenicity: Ames test</b>		
(5-Ethyl-1,3-dioxan-5-yl)methyl acrylate		OECD 471 Result: Negative.
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide		OECD 471 Result: Negative.
2-Propenoic acid, reaction products with 2,2'-[oxybis(methylene)]bis[2-ethyl-1,2-propanediol]		OECD 471 Result: positive
hexamethylene diacrylate; hexane-1,6-diol diacrylate		OECD 471, In vitro Result: Negative
Trimethylolpropane triacrylate		OECD 471, In vitro Result: Negative
<b>Germ cell mutagenicity: Chromosome Aberration</b>		
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide		OECD 473 Result: Negative.
Trimethylolpropane triacrylate		OECD 473, In vitro Result: positive
<b>Germ cell mutagenicity: Micronucleus</b>		
(5-Ethyl-1,3-dioxan-5-yl)methyl acrylate		OECD 474 Result: Negative.
2-Propenoic acid, reaction products with 2,2'-[oxybis(methylene)]bis[2-ethyl-1,2-propanediol]		OECD 474 Result: Negative.
Trimethylolpropane triacrylate		OECD 474, in vivo Result: Negative

**Germ cell mutagenicity: Micronucleus**

hexamethylene diacrylate; hexane-1,6-diol diacrylate      OECD 487, In vitro  
Result: Negative

**Mutagenicity**

(5-Ethyl-1,3-dioxan-5-yl)methyl acrylate      OECD 476  
Result: Negative.  
hexamethylene diacrylate; hexane-1,6-diol diacrylate      OECD 476  
Result: Negative.  
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide      OECD 476  
Result: Negative.  
Trimethylolpropane triacrylate      OECD 476, In vitro  
Result: positive  
OECD 489, in vivo  
Result: Negative

**Carcinogenicity**      Suspected of causing cancer.

**Reproductive toxicity**      This product is not expected to cause reproductive or developmental effects.

**Developmental effects**

(5-Ethyl-1,3-dioxan-5-yl)methyl acrylate      OECD 414  
Result: Negative.  
Species: Rat  
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide      OECD 414  
Result: Negative.  
Species: Rat  
Trimethylolpropane triacrylate      OECD 422  
Result: Negative  
Species: Rat

**Reproductivity**

Trimethylolpropane triacrylate      OECD 422  
Result: Negative  
Species: Rat  
(5-Ethyl-1,3-dioxan-5-yl)methyl acrylate      OECD 422  
Result: Negative.  
hexamethylene diacrylate; hexane-1,6-diol diacrylate      OECD 422  
Result: Negative.  
Species: Rat  
2-Propenoic acid, reaction products with  
2,2'-[oxybis(methylene)]bis[2-ethyl-1,2-propanediol]      OECD 422, (similar product)  
Result: Negative.  
Species: Rat  
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide      OECD414  
Result: Negative.

**Specific target organ toxicity - single exposure**      Not classified.

**Specific target organ toxicity - repeated exposure**      Not classified.

hexamethylene diacrylate; hexane-1,6-diol diacrylate      OECD 422  
Result: Negative.  
Species: Rat  
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide      Result: Negative.  
Species: Rat  
Test Duration: 90 d

**Aspiration hazard**      Not an aspiration hazard.

**Mixture versus substance information**      No information available.

**11.2. Information on other hazards**

**Endocrine disrupting properties**      The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Other information**      Not available.

**SECTION 12: Ecological information**

**12.1. Toxicity**      Toxic to aquatic life with long lasting effects.

Components	Species	Test Results
(5-Ethyl-1,3-dioxan-5-yl)methyl acrylate (CAS 66492-51-1)		
<b>Aquatic</b>		
<i>Acute</i>		
Algae	EC50      Algae	34 mg/l, 72 h



Components	Species		Test Results
Crustacea	LC50	Daphnia	20 mg/l, 48 h
Fish	LC50	Fish	4 mg/l, 96 h
2-Propenoic acid, reaction products with 2,2'-[oxybis(methylene)]bis[2-ethyl-1,2-propanediol] (CAS 1393932-71-2)			
<b>Aquatic</b>			
<i>Acute</i>			
Fish	LC50	Fish	1.2 mg/l, 96 h
hexamethylene diacrylate; hexane-1,6-diol diacrylate (CAS 13048-33-4)			
<b>Aquatic</b>			
<i>Acute</i>			
Algae	EC50	Algae	1.5 mg/l, 72 h
Crustacea	LC50	Daphnia	2.6 mg/l, 48 h
Fish	LC50	Fish	0.38 mg/l, 96 h
<i>Chronic</i>			
Algae	NOEC	Algae	0.5 mg/l, 21 d
Crustacea	NOEC	Daphnia	0.14 mg/l, 21 d
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide (CAS 162881-26-7)			
<b>Aquatic</b>			
<i>Acute</i>			
Algae	EC50	Algae	0.26 mg/l, 72 h Supersaturated suspension
Crustacea	LC50	Daphnia	1.1 mg/l, 48 h Supersaturated suspension
Fish	LC50	Fish	> 90 µg/l, 96 h Supersaturated suspension
<i>Chronic</i>			
Crustacea	NOEC	Crustacea	8.1 µg/l, 21 d
Titanium dioxide (CAS 13463-67-7)			
<b>Aquatic</b>			
<i>Acute</i>			
Crustacea	EC50	Water flea (Daphnia magna)	> 1000 mg/l, 48 hours
Fish	LC50	Mummichog (Fundulus heteroclitus)	> 1000 mg/l, 96 hours
Trimethylolpropane triacrylate (CAS 15625-89-5)			
<b>Aquatic</b>			
<i>Acute</i>			
Algae	EC50	Algae	> 4.9 - < 14.5 mg/l, 96 h
Crustacea	EC50	Invertebrates (Invertebrates)	19.9 mg/l, 48 h
Fish	LC50	Fish	0.87 mg/l, 96 h
<b>12.2. Persistence and degradability</b>			
<b>Biodegradability</b>			
<b>Percent Degradation (Aerobic Biodegradation)</b>			
(5-Ethyl-1,3-dioxan-5-yl)methyl acrylate		OECD 301B	Result: 28
hexamethylene diacrylate; hexane-1,6-diol diacrylate		60 - 70 % OECD 310	
<b>12.3. Bioaccumulative potential</b>			
<b>Partition coefficient</b>			
<b>n-octanol/water (log Kow)</b>			
(5-Ethyl-1,3-dioxan-5-yl)methyl acrylate			> 1.9
hexamethylene diacrylate; hexane-1,6-diol diacrylate			2.81, Log Kow
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide			5.8
Trimethylolpropane triacrylate			> 3.3
<b>Bioconcentration factor (BCF)</b>			
2-Propenoic acid, reaction products with 2,2'-[oxybis(methylene)]bis[2-ethyl-1,2-propanediol]			388 % v/w
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide			< 5
<b>12.4. Mobility in soil</b>			
			No data available.

## Adsorption

### Soil/Sediment Sorption - Log Koc

hexamethylene diacrylate; hexane-1,6-diol diacrylate	2.1
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	3.85
Trimethylolpropane triacrylate	2.24

- 12.5. Results of PBT and vPvB assessment** This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.
- 12.6. Endocrine disrupting properties** The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
- 12.7. Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

- Residual waste** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
- Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Disposal Considerations: EU waste codes  
16 02 13\* - discarded equipment containing hazardous components other than those mentioned in 16 02 09 to 16 02 12
- EU waste code**  
08 03 12\* waste ink containing hazardous substances
- Disposal methods/information** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
- Special precautions** Dispose in accordance with all applicable regulations.

## SECTION 14: Transport information

### ADR

- 14.1. UN number** UN3082
- 14.2. UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
((5-Ethyl-1,3-dioxan-5-yl)methyl acrylate, Trimethylolpropane triacrylate)
- 14.3. Transport hazard class(es)**
- |                         |    |
|-------------------------|----|
| Class                   | 9  |
| Subsidiary risk         | -  |
| Label(s)                | 9  |
| Hazard No. (ADR)        | 90 |
| Tunnel restriction code | E  |
- 14.4. Packing group** III
- 14.5. Environmental hazards** Yes
- 14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

### RID

- 14.1. UN number** UN3082
- 14.2. UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
((5-Ethyl-1,3-dioxan-5-yl)methyl acrylate, Trimethylolpropane triacrylate)
- 14.3. Transport hazard class(es)**
- |                 |   |
|-----------------|---|
| Class           | 9 |
| Subsidiary risk | - |
| Label(s)        | 9 |
- 14.4. Packing group** III
- 14.5. Environmental hazards** Yes
- 14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

### ADN

- 14.1. UN number** UN3082
- 14.2. UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
((5-Ethyl-1,3-dioxan-5-yl)methyl acrylate, Trimethylolpropane triacrylate)
- 14.3. Transport hazard class(es)**
- |       |   |
|-------|---|
| Class | 9 |
|-------|---|

<b>Subsidiary risk</b>	-
<b>Label(s)</b>	9
<b>14.4. Packing group</b>	III
<b>14.5. Environmental hazards</b>	Yes
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

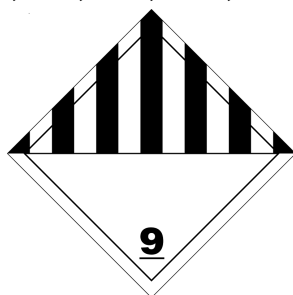
#### IATA

<b>14.1. UN number</b>	UN3082
<b>14.2. UN proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s. ((5-Ethyl-1,3-dioxan-5-yl)methyl acrylate, TRIMETHYLOLPROPANE TRIACRYLATE)
<b>14.3. Transport hazard class(es)</b>	
<b>Class</b>	9
<b>Subsidiary risk</b>	-
<b>14.4. Packing group</b>	III
<b>14.5. Environmental hazards</b>	Yes
<b>ERG Code</b>	9L
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Other information</b>	
<b>Passenger and cargo aircraft</b>	Allowed with restrictions.
<b>Cargo aircraft only</b>	Allowed with restrictions.

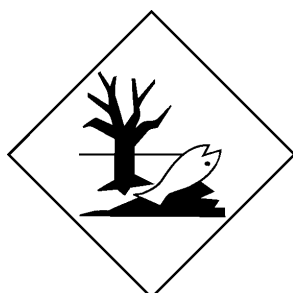
#### IMDG

<b>14.1. UN number</b>	UN3082
<b>14.2. UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((5-Ethyl-1,3-dioxan-5-yl)methyl acrylate, TRIMETHYLOLPROPANE TRIACRYLATE), MARINE POLLUTANT
<b>14.3. Transport hazard class(es)</b>	
<b>Class</b>	9
<b>Subsidiary risk</b>	-
<b>14.4. Packing group</b>	III
<b>14.5. Environmental hazards</b>	
<b>Marine pollutant</b>	Yes
<b>EmS</b>	F-A, S-F
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>14.7. Maritime transport in bulk according to IMO instruments</b>	Not established.

ADN; ADR; IATA; IMDG; RID



Marine pollutant



General information                      IMDG Regulated Marine Pollutant.

## SECTION 15: Regulatory information

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

Material name: UVgel 460 ink White

6125C001AA, 6125C002AA    Version #: 4.2    Revision date: 12-December-2023    Issue date: 13-January-2023

SDS IRELAND

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## EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

**Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

Titanium dioxide (CAS 13463-67-7)

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

## Authorisations

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

## Restrictions on use

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended - Conditions of restriction given for the associated entry number should be considered**

Not listed.

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.**

Not listed.

## Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This product is in compliance with Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronics equipment (RoHS). This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

## National regulations

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

## 15.2. Chemical safety assessment

This safety data sheet contains an ES in an integrated form. Contents of the exposure scenario have been included into sections 1.2, 8, 9, 12, 15 and 16 of this safety data sheet.

## SECTION 16: Other information

### List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
CAS: Chemical Abstract Service.  
CEN: European Committee for Standardization.  
IATA: International Air Transport Association.  
IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.  
IMDG: International Maritime Dangerous Goods.  
MARPOL: International Convention for the Prevention of Pollution from Ships.  
PBT: Persistent, bioaccumulative and toxic.  
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.  
STEL: Short term exposure limit.  
TWA: Time Weighted Average.  
vPvB: Very persistent and very bioaccumulative.

### References

Not available.

### Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

### Full text of any statements, which are not written out in full under sections 2 to 15

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.

H335 May cause respiratory irritation.  
H351 Suspected of causing cancer.  
H361 Suspected of damaging fertility or the unborn child.  
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.  
H413 May cause long lasting harmful effects to aquatic life.

**Revision information**

Product and Company Identification: Material Articles  
Composition / Information on Ingredients: Disclosure Overrides  
SECTION 11: Toxicological information: Carcinogenicity

**Training information**

Follow training instructions when handling this material.

**Disclaimer**

The information in this Safety Data Sheet is based on the present state of knowledge and current legislation and is believed to be accurate. It provides guidance on health, safety and environmental aspects of the product and should neither be construed as any guarantee of specific properties nor of technical performance or suitability for particular applications. The product should not be used for purposes other than those shown in Section 1. This document was prepared to the requirements of the jurisdiction in Section 1 and may not meet regulatory requirements in other countries or territories. The information contained in this safety data sheet does not replace the user's own assessment of workplace risks, as required by applicable health and safety legislation.