

SAFETY DATA SHEET

UVgel 356A ink Black



A CANON COMPANY

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

1.1 Product identifier

Product name : UVgel 356A ink Black
Article number : 1070092845
Product code (Canon) : 1965C024AA

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

Inkjet printing ink for Océ Colorado 1640 Printer. Other uses are not recommended.

1.3 Details of the supplier of the safety data sheet

Supplier : Océ-Technologies B.V.
Address : St. Urbanusweg 43, 5914 CA Venlo, the Netherlands
Telephone number : +31 77 359 2222
e-mail address : sds-hq@oce.com

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : United Kingdom: 111

Emergency telephone number

Telephone number : + 44 (0) 1235 239 670

Hours of operation : 24h

Information limitations : For chemical emergencies only.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Skin Irrit. 2, H315

Eye Irrit. 2, H319

Skin Sens. 1, H317

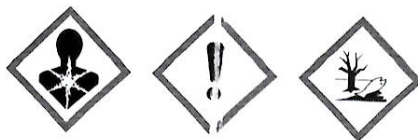
Repr. 1B, H360FD (Fertility and Unborn child)

Aquatic Chronic 2, H411

See Section 16 for the full text of the H statements declared above.

2.2 Label elements

Hazard pictograms :



Signal word :

Danger

SECTION 2: Hazards identification

Hazard statements	: Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. May damage fertility. May damage the unborn child. Toxic to aquatic life with long lasting effects.
Precautionary statements	
General	: Not applicable
Prevention	: Wear protective gloves and eye protection. Avoid release to the environment.
Response	: IF exposed or concerned: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention.
Storage	: Not applicable.
Disposal	: Not applicable
Hazardous ingredients	: Di-TMPTTA 3-[2,2-dimethyl-1-oxo-3-[(1-oxoallyl)oxy]propoxy]-2,2-dimethylpropyl acrylate ethyl 4-dimethylaminobenzoate 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone
Supplemental label elements	: Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Restricted to professional users.

2.3 Other hazards

Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
Di-TMPTTA	REACH #: 01-2119977121-41 EC: 302-434-9 CAS: 94108-97-1	≥25 - ≤50	R43	Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
3-[2,2-dimethyl-1-oxo-3-[(1-oxoallyl)oxy]propoxy]-2,2-dimethylpropyl acrylate	EC: 250-072-4 CAS: 30145-51-8	≥25 - ≤50	Not classified.	Eye Irrit. 2, H319 Skin Sens. 1, H317	[1]
4-tert-Butylcyclohexyl acrylate	EC: 282-104-8 CAS: 84100-23-2	≤10	Xi; R36/37/38 N; R51/53	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1A, H317 STOT SE 3, H335 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411	[1]
2,2-dimethyltrimethylene	EC: 218-741-5 CAS: 2223-82-7	≤10	T; R24 Xi; R36/38	Acute Tox. 3, H311 Skin Irrit. 2, H315	[1]

SECTION 3: Composition/information on ingredients

diacrylate	Index: 607-112-00-4		R43	Eye Irrit. 2, H319	
Propoxylated neopentyl glycol diacrylate	REACH #: 01-2119970213-43 CAS: 84170-74-1	≤10	R43	Skin Sens. 1, H317 Skin Sens. 1B, H317 Aquatic Chronic 2, H411	[1]
Propylidynetrimethanol, ethoxylated, esters with acrylic acid, reaction products with diethylamine ethyl 4-dimethylaminobenzoate	EC: 500-425-6 CAS: 159034-91-0	≤10	Not classified.	Eye Irrit. 2, H319 Skin Sens. 1A, H317 Aquatic Chronic 3, H412	[1]
	EC: 233-634-3 CAS: 10287-53-3	≤5	Not classified.	Repr. 1B, H360FD (Fertility and Unborn child, Can impair male fertility.) (oral) Aquatic Chronic 2, H411	[1]
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	EC: 404-360-3 CAS: 119313-12-1 Index: 606-047-00-9	≤3	N; R50/53	Repr. 1B, H360D (Unborn child) Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
Propylidynetrimethanol, ethoxylated, esters with acrylic acid n-butyl acrylate	EC: 500-066-5 CAS: 28961-43-5	≤0,3	Xi; R36	Eye Irrit. 2, H319 Skin Sens. 1, H317	[1]
	EC: 205-480-7 CAS: 141-32-2 Index: 607-062-00-3	≤0,1	R10 Xi; R36/37/38 R43	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335	[1] [2]
			See section 16 for the full text of the R-phrases declared above.	See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

General

: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.

Eye contact

: Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. If irritation persists, get medical attention.

Inhalation

: Remove to fresh air. Keep person warm and at rest.

SECTION 4: First aid measures

- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners. If skin irritation or rash occurs: Get medical attention.
- Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Ingestion** : May damage fertility or the unborn child if swallowed.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.

See toxicological information (Section 11)

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Recommended: alcohol-resistant foam, CO₂, powders, water spray.
- Unsuitable extinguishing media** : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.
- Special protective equipment for fire-fighters** : Appropriate breathing apparatus may be required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Avoid contact with eyes, skin and clothing. Refer to protective measures listed in sections 7 and 8.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

SECTION 6: Accidental release measures

- 6.2 Environmental precautions** : Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.
- 6.3 Methods and material for containment and cleaning up** : Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.
- 6.4 Reference to other sections** : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

- 7.1 Precautions for safe handling** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

7.2 Conditions for safe storage, including any incompatibilities

Do not store above the following temperature: 29°C (84,2°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations : Industrial

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
n-butyl acrylate	EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 26 mg/m ³ 15 minutes. STEL: 5 ppm 15 minutes. TWA: 5 mg/m ³ 8 hours. TWA: 1 ppm 8 hours.

DNELs/DMELs

SECTION 8: Exposure controls/personal protection

Product/ingredient name	Type	Exposure	Value	Population	Effects
Di-TMPTTA - Propoxylated neopentyl glycol diacrylate - - - - - - - -	DNEL	Long term Dermal	1,67 mg/kg	Workers	Systemic
	DNEL	Long term Inhalation	5,88 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	11,75 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	2,9 mg/m ³	Consumers	Systemic
	DNEL	Long term Oral	1,67 mg/kg	Consumers	Systemic
	DNEL	Long term Dermal	3,33 mg/kg	Workers	Systemic
	DNEL	Long term Dermal	0,117 mg/cm ²	Workers	Local
	DNEL	Long term Dermal	1,67 mg/kg	Consumers	Systemic
	DNEL	Long term Dermal	0,117 mg/cm ²	Consumers	Local

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail	
Di-TMPTTA - - - - - - - - - -	Fresh water	0,0012 mg/l	-	
	Soil	0,098 mg/kg dwt	-	
	Marine water sediment	0,0493 mg/kg dwt	-	
	Fresh water sediment	0,493 mg/kg dwt	-	
	Sewage Treatment Plant	100 mg/l	-	
	Propoxylated neopentyl glycol diacrylate - - - - - -	Marine water	0,00012 mg/l	-
		Fresh water	0,0027 mg/l	-
		Fresh water sediment	0,1881 mg/kg dwt	-
		Marine water	0,00027 mg/l	-
		Sewage Treatment Plant	0,2 mg/l	-
Soil		0,036 mg/kg dwt	-	
Marine water sediment		0,01881 mg/kg dwt	-	

8.2 Exposure controls

Appropriate engineering controls : See operator manual or safety data sheet of the copier/printer. Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

Individual protection measures

Hygiene measures : Wash hands after handling compounds and before eating, smoking and using the lavatory and at the end of the day. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Use safety eyewear designed to protect against splash of liquids.

Skin protection

Hand protection

Gloves

: Protective gloves should be worn under normal conditions of use.

4 - 8 hours (breakthrough time): Nitrile gloves. Solvex 37-900 . 0.425mm Length: 380mm.

> 8 hours (breakthrough time): Nitrile gloves. Microflex 93-260; Thickness 0.12 mm. Length: 300mm.

SECTION 8: Exposure controls/personal protection

10 min (breakthrough time): Nitrile gloves. Touch N Tuff® 92-600 Thickness 0.12 mm. Length: 300mm.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

- Body protection** : Avoid contact with skin.
Other skin protection : Avoid contact with skin.
Respiratory protection : If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.
Environmental exposure controls : Do not allow to enter drains or watercourses.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

- Physical state** : Liquid.
Colour : Black.
Odour : Odourless.
Odour threshold : Not available.
pH : Not applicable.
Melting point/freezing point : -68°C
Initial boiling point and boiling range : Not available.
Flash point : Closed cup: 145°C
Evaporation rate : Not available.
Flammability (solid, gas) : Not available.
Upper/lower flammability or explosive limits : Not available.
Vapour pressure : Not available.
Vapour density : Not available.
Relative density : Not available.
Solubility(ies) : Not available.
Partition coefficient: n-octanol/ water : Not available.
Auto-ignition temperature : 361°C
Decomposition temperature : Not available.
Viscosity : Not available.
Explosive properties : Not available.
Oxidising properties : Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

- 10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability : Stable under recommended storage and handling conditions (see Section 7).
10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

SECTION 10: Stability and reactivity

- 10.4 Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition products.
- 10.5 Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
- 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

Product/ingredient name	Result	Species	Dose	Exposure
Di-TMPTTA	LD50 Dermal	Rabbit	5170 mg/kg	-
-	LD50 Oral	Rat	>5000 mg/kg	-
monoalkyl or monoaryl or monoalkylaryl esters of acrylic acid	LD50 Oral	Rat	>2000 mg/kg	-
Propoxylated neopentyl glycol diacrylate	LC50 Inhalation Dusts and mists	Rat	>2 mg/l	4 hours
-	LD50 Dermal	Rat	>2000 mg/kg	-
-	LD50 Oral	Rat	>5000 mg/kg	-
Propylidynetrimethanol, ethoxylated, esters with acrylic acid, reaction products with diethylamine	LD50 Dermal	Rat	>2000 mg/kg	-
-	LD50 Oral	Rat	>2000 mg/kg	-
ethyl 4-dimethylaminobenzoate	LD50 Dermal	Rat	>2000 mg/kg	-
-	LD50 Oral	Rat	>2000 mg/kg	-
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	LD50 Dermal	Rat	>2000 mg/kg	-
-	LD50 Oral	Rat	>5000 mg/kg	-
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	LD50 Dermal	Rabbit	>13200 mg/kg	-
-	LD50 Oral	Rat	2000 to 5000 mg/kg	-
n-butyl acrylate	LC50 Inhalation Gas.	Rat	2730 ppm	4 hours
-	LD50 Oral	Rat	900 mg/kg	-

Conclusion/Summary : Based on available data, the classification criteria are not met.

Acute toxicity estimates

Route	ATE value
Dermal	5028,9 mg/kg

Irritation/Corrosion

SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
Di-TMPPTA	Eyes - Redness of the conjunctivae	Rabbit	2	-	-
-	Eyes - Oedema of the conjunctivae	Rabbit	1,5	-	-
2,2-dimethyltrimethylene diacrylate	Skin - Severe irritant	Rabbit	-	500 milligrams	-
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	Eyes - Moderate irritant	Rabbit	-	100 milligrams	-
-	Skin - Moderate irritant	Rabbit	-	500 milligrams	-
n-butyl acrylate	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
-	Eyes - Mild irritant	Rabbit	-	50 milligrams	-
-	Skin - Mild irritant	Rabbit	-	24 hours 10 milligrams	-
-	Skin - Mild irritant	Rabbit	-	500 milligrams	-

Conclusion/Summary

Skin

: Causes skin irritation. Based on toxicological literature on the ingredients of this product.

Eyes

: Causes serious eye irritation. Based on toxicological literature on the ingredients of this product.

Respiratory

: No known significant effects or critical hazards. Based on toxicological literature on the ingredients of this product.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
Propoxylated neopentyl glycol diacrylate	skin	Guinea pig	Sensitising
ethyl 4-dimethylaminobenzoate	skin	Guinea pig	Not sensitizing
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	skin	Guinea pig	Not sensitizing

Conclusion/Summary

Skin

: May cause sensitisation by skin contact. Based on toxicological literature on the ingredients of this product.

Respiratory

: No known significant effects or critical hazards.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
monoalkyl or monoaryl or monoalkylaryl esters of acrylic acid	-	Experiment: In vitro Subject: Bacteria	Negative
ethyl 4-dimethylaminobenzoate	OECD 471	Experiment: In vitro Subject: Bacteria	Negative
-	OECD 474	Experiment: In vivo Subject: Mammalian-Animal	Negative

Conclusion/Summary

: No mutagenic effect.

Carcinogenicity

SECTION 11: Toxicological information

Conclusion/Summary : The IARC evaluated carbon black, as a Group 2B carcinogen, for which there is inadequate human evidence, but sufficient animal evidence. The latter is based upon the development of lung tumors in rats receiving chronic inhalation exposure to powdered carbon black at levels that induce particle overload of the lung. However, the amount of inhalation exposure to powdered carbon black is negligible under intended use of this product.

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
ethyl 4-dimethylaminobenzoate	Negative	Positive	Positive	Rat	Oral	-
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	Negative	Negative	Positive	Rat	Oral	-

Conclusion/Summary : May damage fertility or the unborn child if swallowed.

Teratogenicity

Conclusion/Summary : No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
4-tert-Butylcyclohexyl acrylate	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Conclusion/Summary : Not available.

Aspiration hazard

Not available.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Di-TMPTTA	EC50 12 mg/l	Algae	72 hours
-	Acute EC50 >10 mg/l	Daphnia	48 hours
-	Acute LC50 1,2 mg/l	Fish	96 hours
monoalkyl or monoaryl or monoalkylaryl esters of acrylic acid	LC50 1 to 10 mg/l	Fish	96 hours
Propoxylated neopentyl glycol diacrylate	Acute EC50 37 mg/l	Daphnia	48 hours
-	Acute LC50 2,7 mg/l	Fish	96 hours
Propylidynetrimethanol, ethoxylated, esters with acrylic acid, reaction products with diethylamine	EC50 >100 mg/l	Daphnia	48 hours
-	Acute LC50 >100 mg/l	Fish	96 hours
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	LC50 0,5 mg/l	Daphnia	48 hours
-	LC50 0,46 mg/l	Fish	96 hours
Propylidynetrimethanol, ethoxylated, esters with	LC50 70,7 mg/l	Daphnia	48 hours

SECTION 12: Ecological information

acrylic acid	LC50 1,95 mg/l	Fish	96 hours
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Conclusion/Summary : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.2 Persistence and degradability

Conclusion/Summary : May cause long-term adverse effects in the aquatic environment.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Di-TMPTTA	-	4 to 14%; 28 day(s)	Not readily
monoalkyl or monoaryl or monoalkylaryl esters of acrylic acid	-	-	Readily
Propoxylated neopentyl glycol diacrylate	-	-	Inherent
Propylidynetrimethanol, ethoxylated, esters with acrylic acid, reaction products with diethylamine	-	6%; 28 day(s)	Not readily
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	-	-	Not readily
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Di-TMPTTA	-	388	low
monoalkyl or monoaryl or monoalkylaryl esters of acrylic acid	4,78	-	high
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	2,91	-	low
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	2,89	-	low
n-butyl acrylate	2,38	17,27	low

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.