

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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

1.1 Product identifier

Product name: ANUVIA 450 BLACK INK

Product No.: 000001016124

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

Identified uses: Printing ink

Uses advised against: Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Manufacturer

Agfa Graphics NV
Septestraat 27
2640 Mortsel
Belgium

Telephone: +32 3 4442111

Fax: +32 3 4447094

E-mail: electronic.sds@agfa.com

National Supplier

Agfa-Gevaert Ltd.
Vantage West
Great West Road
Brentford, Middlesex TW8 9AX
United Kingdom

Telephone: +44 (0)20 8 231 4616

Fax: +44 (0)20 8 231 4951

E-mail: electronic.sds@agfa.com

1.4 Emergency telephone number:

Emergency telephone number (Belgium) : +32 3 4443333 (24h/24h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

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

Health Hazards

Skin irritation	Category 2	H315: Causes skin irritation.
Serious eye irritation	Category 2	H319: Causes serious eye irritation.
Skin sensitizer	Category 1A	H317: May cause an allergic skin reaction.

Specific Target Organ Toxicity - Single Exposure	Category 3	H335: May cause respiratory irritation.
Specific Target Organ Toxicity - Repeated Exposure	Category 1	H372: Causes damage to organs through prolonged or repeated exposure.

Environmental Hazards

Chronic hazards to the aquatic environment	Category 2	H411: Toxic to aquatic life with long lasting effects.
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2.2 Label Elements

Contains:

Isobornyl acrylate
N-vinyl caprolactam
Phenoxyethylacrylate
Hexamethylene diacrylate



Signal Words: Danger

Hazard Statement(s): H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
H372: Causes damage to organs through prolonged or repeated exposure.
H411: Toxic to aquatic life with long lasting effects.

Target Organs:

Liver

Precautionary Statements

Prevention:

P260: Do not breathe dust/fume/gas/mist/vapors/spray.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P337+P313: If eye irritation persists: Get medical advice/attention.
P363: Wash contaminated clothing before reuse.
P312: Call a POISON CENTER/doctor if you feel unwell.
P391: Collect spillage.

2.3 Other hazards

Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria Not fulfilling vPvB (very persistent/very bioaccumulative) criteria

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information: No data available.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Isobornyl acrylate	25 - <50%	5888-33-5	227-561-6	01- 2119957862- 25-XXXX	No data available.	
N-vinyl caprolactam	10 - <20%	2235-00-9	218-787-6	01- 2119977109- 27-XXXX	No data available.	
Phenoxyethyla crylate	10 - <20%	48145-04-6	256-360-6	01- 2119980532- 35-XXXX	No data available.	
Benzophenon e	1 - <5%	119-61-9	204-337-6	No data available.	No data available.	
Hexamethylen e diacrylate	1 - <5%	13048-33-4	235-921-9	01- 2119484737- 22-XXXX	No data available.	
2-Ethylhexyl 4- (dimethylamin o)benzoate	1 - <5%	21245-02-3	244-289-3	No data available.	No data available.	
Phosphine oxide, diphenyl(2,4,6 - trimethylbenzo yl)-	1 - <3%	75980-60-8	278-355-8	01- 2119972295- 29-XXXX	No data available.	
2-Propenoic acid ,1-6- hexanediyl ester, polymer with 2- aminoethanol	1 - <5%	67906-98-3		No data available.	No data available.	
Penyl	1 - <5%	162881-26-7	423-340-5	No data	No data	

bis(2,4,6-trimethylbenzoyl)-phosphine oxide				available.	available.	
Ethoxylated nonylphenol acrylate	1 - <5%	678991-31-6	614-163-6	No data available.	No data available.	
carbon black (carbon)	1 - <5%	1333-86-4	215-609-9	01-2119384822-32-XXXX	No data available.	#
Oxybis(methyl-2,1-ethanediyl) diacrylate	0.1 - <1%	57472-68-1	260-754-3	01-2119484629-21-XXXX	No data available.	
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	0.1 - <0.25%	128-37-0	204-881-4	01-2119565113-46-0000	1	#

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Classification

Chemical name	Classification	Notes
Isobornyl acrylate	STOT SE: 3: H335 Aquatic Chronic: 2: H411 Skin Irrit.: 2: H315 Eye Irrit.: 2: H319	Note A
N-vinyl caprolactam	Acute Tox.: 4: H302 Eye Irrit.: 2: H319 Skin Sens.: 1B: H317 STOT RE: 1: H372	
Phenoxyethylacrylate	Skin Sens.: 1A: H317 Aquatic Chronic: 2: H411	
Benzophenone	STOT RE: 2: H373 Aquatic Chronic: 3: H412 STOT RE: 2: H373 Aquatic Chronic: 3: H412	No data available.
Hexamethylene diacrylate	Skin Sens.: 1: H317 Eye Irrit.: 2: H319 Skin Irrit.: 2: H315	
2-Ethylhexyl 4-(dimethylamino)benzoate	Eye Irrit.: 2: H319	
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	Repr.: 2: H361f Aquatic Chronic: 2: H411	No data available.
2-Propenoic acid, 1,6-hexanediyl ester, polymer with 2-aminoethanol	Skin Irrit.: 2: H315 Eye Irrit.: 2: H319	
Penyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	Skin Sens.: 1: H317 Aquatic Chronic: 4: H413	No data available.
Ethoxylated nonylphenol	Eye Irrit.: 2: H319 Skin Irrit.: 2: H315	

acrylate		
carbon black (carbon)	No data available.	
Oxybis(methyl-2,1-ethanediyl) diacrylate	Skin Sens.: 1: H317 Eye Dam.: 1: H318 Skin Irrit.: 2: H315	
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	Aquatic Acute: 1: H400 Aquatic Chronic: 1: H410	No data available.

CLP: Regulation No. 1272/2008.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation:	Move to fresh air.
Eye contact:	Rinse immediately with plenty of water.
Skin Contact:	Remove contaminated clothing and wash the skin thoroughly with soap and water after work.
Ingestion:	Rinse mouth thoroughly.

4.2 Most important symptoms and effects, both acute and delayed: See section 11 of the SDS for additional information on health hazards.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards:	See section 11 of the SDS for additional information on health hazards.
Treatment:	Get medical attention if symptoms occur.

SECTION 5: Firefighting measures

General Fire Hazards: No unusual fire or explosion hazards noted.

5.1 Extinguishing media

Suitable extinguishing media: Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or mixture: During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Put on protective equipment before entering danger area.
- 6.2 Environmental Precautions:** Avoid release to the environment. Prevent further leakage or spillage if safe to do so.
- 6.3 Methods and material for containment and cleaning up:** Stop the flow of material, if this is without risk. Absorb with sand or other inert absorbent.
- 6.4 Reference to other sections:** For personal protection see section 8. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage:

- 7.1 Precautions for safe handling:** Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
- 7.2 Conditions for safe storage, including any incompatibilities:** Store away from incompatible materials.
- 7.3 Specific end use(s):** Reserved for industrial and professional use.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	type	Exposure Limit Values	Source
carbon black (carbon)	STEL	7 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
	TWA	3.5 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	TWA	10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)

Biological Limit Values

None.

DNEL-Values

Critical component	type	Route of Exposure		Remarks
Isobornyl acrylate	General population	Oral	0.83 mg/kg	Repeated dose toxicity
	General population	Dermal	0.83 mg/kg	Repeated dose toxicity
	Workers	Dermal	1.39 mg/kg	Repeated dose toxicity
Phenoxyethylacrylate	Workers	Dermal	1.5 mg/kg	Repeated dose toxicity
	Workers	Inhalation	77 mg/m3	Repeated dose toxicity
	Workers	Inhalation	10 mg/m3	Repeated dose toxicity
Benzophenone	General population	Inhalation	0.17 mg/m3	Repeated dose toxicity

	Workers	Dermal	0.1 mg/kg	Repeated dose toxicity
	General population	Dermal	0.05 mg/kg	Repeated dose toxicity
	Workers	Inhalation	0.7 mg/m3	Repeated dose toxicity
	General population	Dermal	0.1 mg/kg	Repeated dose toxicity
	General population	Oral	0.05 mg/kg	Repeated dose toxicity
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	Workers	Dermal	1 mg/kg	Repeated dose toxicity
	Workers	Inhalation	3.5 mg/m3	Repeated dose toxicity
Penyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	Workers	Inhalation	7.84 mg/m3	Repeated dose toxicity
	General population	Inhalation	3.92 mg/m3	Repeated dose toxicity
	Workers	Inhalation	7.84 mg/m3	
	General population	Oral	1.7 mg/kg	Repeated dose toxicity
	Workers	Dermal	3.3 mg/kg	Repeated dose toxicity
	General population	Inhalation	1.93 mg/m3	
	General population	Oral	1.67 mg/kg	Repeated dose toxicity
	General population	Dermal	1.67 mg/kg	
	General population	Inhalation	1.9 mg/m3	Repeated dose toxicity
	Workers	Dermal	3.33 mg/kg	Repeated dose toxicity
	Workers	Dermal	3.33 mg/kg	Repeated dose toxicity
	General population	Dermal	1.67 mg/kg	Repeated dose toxicity
	General population	Dermal	1.67 mg/kg	Repeated dose toxicity
	Workers	Dermal	3.33 mg/kg	
	General population	Oral	1.67 mg/kg	Repeated dose toxicity
	General population	Inhalation	3.92 mg/m3	Repeated dose toxicity
	General population	Dermal	1.7 mg/kg	Repeated dose toxicity
	Workers	Inhalation	7.84 mg/m3	Repeated dose toxicity
	General population	Inhalation	1.93 mg/m3	Repeated dose toxicity
	General population	Oral	1.67 ng/kg	
	Workers	Inhalation	7.8 mg/m3	Repeated dose toxicity
carbon black (carbon)	Workers	Inhalation	1 mg/m3	Repeated dose toxicity
	Workers	Inhalation	3.5 mg/m3	Irritating to respiratory system.
	Workers	Inhalation	2 mg/m3	Repeated dose toxicity
	Workers	Inhalation	2 mg/m3	Irritating to respiratory system.
	General population	Inhalation	1.75 mg/m3	Irritating to respiratory system.
	General population	Inhalation	0.06 mg/m3	Repeated dose toxicity
Oxybis(methyl-2,1-ethanediyl) diacrylate	General population	Dermal	1.66 mg/kg	Repeated dose toxicity
	General population	Oral	2.08 mg/kg	Repeated dose toxicity
	Workers	Inhalation	24.48 mg/m3	Repeated dose toxicity
	Workers	Dermal	2.77 mg/kg	Repeated dose toxicity
	General population	Inhalation	7.24 mg/m3	Repeated dose toxicity
#-caprolactam	General population	Inhalation	5 mg/m3	Irritating to respiratory system.
	General population	Oral	8.55 mg/kg	Repeated dose toxicity
	General population	Inhalation	2.5 mg/m3	Irritating to respiratory system.
	Workers	Inhalation	10 mg/m3	Irritating to respiratory system.
	Workers	Inhalation	5 mg/m3	Irritating to respiratory system.

2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	General population	Dermal	0.25 mg/kg	Repeated dose toxicity
	Workers	Dermal	8.3 mg/kg	
	General population	Inhalation	1.74 mg/m3	
	Workers	Dermal	0.3 mg/kg	
	Workers	Dermal	0.5 mg/kg	Repeated dose toxicity
	General population	Dermal	0.17 mg/kg	
	General population	Oral	0.17 mg/kg	
	General population	Inhalation	2.5 mg/m3	
	Workers	Dermal	166 mg/kg	
	General population	Inhalation	0.86 mg/m3	Repeated dose toxicity
	General population	Dermal	100 mg/kg	
	Workers	Inhalation	3.5 mg/m3	Repeated dose toxicity
	General population	Oral	100 mg/kg	
	Workers	Inhalation	5.8 mg/m3	
	General population	Dermal	5 mg/kg	
Phenol, 4-methoxy-	Workers	Inhalation	10 mg/m3	Acute toxicity
	Workers	Inhalation	3 mg/m3	Repeated dose toxicity
Nonylphenol-polyethyleneglycol ether	Workers	Dermal	66.7 mg/kg	Repeated dose toxicity
	Workers	Inhalation	4.7 mg/m3	Repeated dose toxicity

PNEC-Values

Critical component	Environmental compartment		Remarks
Isobornyl acrylate	Aquatic (freshwater)	0.00092 mg/l	
	soil	0.0285 mg/kg	
	freshwater sediment	0.145 mg/kg	
	Marine sediments	0.0145 mg/kg	
	Sewage treatment plant	2 mg/l	
	Aquatic (marine water)	0.000092 mg/l	
	Aquatic (intermit. releases)	0.00704 mg/l	
Benzophenone	freshwater sediment	1.1 mg/kg	
	Sewage treatment plant	3.16 mg/l	
	Aquatic (marine water)	0.002 mg/l	
	Aquatic (intermit. releases)	0.035 mg/l	
	Marine sediments	0.11 mg/kg	
	soil	0.31 mg/kg	
	Aquatic (freshwater)	0.02 mg/l	
Hexamethylene diacrylate	Aquatic (freshwater)	0.0015 mg/l	
	Marine sediments	0.00243 mg/kg	
	Aquatic (marine water)	0.00015 mg/l	
	soil	0.00397 mg/kg	
	Sewage treatment plant	2.7 mg/l	
	freshwater sediment	0.0243 mg/kg	

Phosphine oxide, diphenyl(2,4,6- trimethylbenzoyl)-	soil	0.0557 mg/kg	
	Fresh water	0.00353 mg/l	
	Marine sediments	0.029 mg/kg	
	Marine water	0.00353 mg/l	
	Aquatic (intermit. releases)	0.0353 mg/l	
	Intermittent release	0.0353 mg/l	
	Aquatic (marine water)	0.000353 mg/l	
	Sediment-fresh water	0.29 mg/kg	
	freshwater sediment	0.29 mg/kg	
	Soil	0.0557 mg/kg	
	Aquatic (freshwater)	0.00353 mg/l	
Penyl bis(2,4,6- trimethylbenzoyl)- phosphine oxide	Aquatic (intermit. releases)	0.8 µg/l	
	Aquatic (freshwater)	0.8 µg/l	
	Sewage treatment plant	1 mg/l	
	Aquatic (intermit. releases)	1 µg/l	
	Aquatic (marine water)	1 µg/l	
	Aquatic (marine water)	0.8 µg/l	
	Aquatic (freshwater)	0.8 µg/l	
	Aquatic (freshwater)	1 µg/l	
carbon black (carbon)	Aquatic (freshwater)	50 mg/l	
	Aquatic (marine water)	5 mg/l	
	Aquatic (freshwater)	5 mg/l	
Oxybis(methyl-2,1- ethanediyl) diacrylate	soil	0.0013 mg/kg	
	Sewage treatment plant	100 mg/l	
	Aquatic (marine water)	0.00034 mg/l	
	Aquatic (intermit. releases)	0.034 mg/l	
	freshwater sediment	0.00884 mg/kg	
	Aquatic (freshwater)	0.0034 mg/l	
#-caprolactam	soil	2.55 mg/kg	
	Sewage treatment plant	1737 mg/l	
	Aquatic (marine water)	0.2 mg/l	
	Aquatic (freshwater)	2 mg/l	
	freshwater sediment	18.7 mg/kg	
	Aquatic (intermit. releases)	1 mg/l	
2,6-bis(1,1- dimethylethyl)-4-methyl- phenol	Aquatic (marine water)	0.0041 mg/l	
	Aquatic (freshwater)	0.1 mg/l	

	soil	1.04 mg/kg	
	Predator	8.33 mg/kg	
	Aquatic (marine water)	0.01 mg/l	
	Predator	16.7 mg/kg	
	Aquatic (intermit. releases)	1 mg/l	
	Marine sediments	0.731 mg/kg	
	Sewage treatment plant	10 mg/l	
	Sewage treatment plant	100 mg/l	
	freshwater sediment	0.731 mg/kg	
	Sewage treatment plant	0.17 mg/l	
	freshwater sediment	1.29 mg/kg	
	soil	0.35 mg/kg	
	Aquatic (freshwater)	0.0041 mg/l	
Phenol, 4-methoxy-	freshwater sediment	0.125 mg/kg	
	Aquatic (freshwater)	0.0136 mg/l	
	Aquatic (marine water)	0.00136 mg/l	
	Sewage treatment plant	10 mg/l	
	soil	0.017 mg/kg	
	Marine sediments	0.0125 mg/kg	
Nonylphenol-polyethyleneglycol ether	Marine sediments	0.46 mg/kg	
	freshwater sediment	4.6 mg/kg	
	Sewage treatment plant	10 mg/l	
	Aquatic (marine water)	1 µg/l	
	Aquatic (freshwater)	10 µg/l	
	soil	0.34 mg/kg	
	Aquatic (intermit. releases)	1.48 µg/l	

8.2 Exposure controls

Appropriate Engineering Controls: Provide adequate ventilation.

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. Follow training instructions when handling this material.

Eyeface protection: Safety goggles. EN 166.

Skin protection

Hand Protection:	Protective gloves should be used if there is a risk of direct contact or splash.(EN374) Chemical resistant gloves required for prolonged or repeated contact. Butyl rubber. Glove thickness: > 0.70 mm Break-through time: > 480 min Risk of splashes: Nitrile rubber. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.
Other:	Safety clothes : long sleeved clothing EN13688
Respiratory Protection:	In case of inadequate ventilation use suitable respirator (EN14387). Seek advice from local supervisor.
Hygiene measures:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.
Environmental Controls:	Do not empty into drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	Black
Odor:	Sweetish
Odor Threshold:	No data available.
pH:	No data available.
Freezing point:	No data available.
Boiling Point:	No data available.
Flash Point:	No data available.
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%):	No data available.
Flammability Limit - Lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density (air=1):	No data available.
Relative density:	1.054
Solubility(ies)	
Solubility in Water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Viscosity:	No data available.
Explosive properties:	No data available.

Oxidizing properties: No data available.

9.2 Other information

VOC Content: EC Directive 2004/42: 379.42 g/l ~37.94 % (calculated)

SECTION 10: Stability and reactivity

- 10.1 Reactivity:** Material is stable under normal conditions.
- 10.2 Chemical Stability:** Material is stable under normal conditions.
- 10.3 Possibility of hazardous reactions:** No data available.
- 10.4 Conditions to avoid:** Avoid heat or contamination.
- 10.5 Incompatible Materials:** No data available.
- 10.6 Hazardous Decomposition Products:** By heating and fire, harmful vapors/gases may be formed.

SECTION 11: Toxicological information

Information on likely routes of exposure

- Inhalation:** Inhalation is the primary route of exposure. In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
- Ingestion:** May be ingested by accident. Ingestion may cause irritation and malaise.
- Skin Contact:** Moderately irritating to skin with prolonged exposure.
- Eye contact:** Eye contact is possible and should be avoided.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: ATEmix: 7,172.61 mg/kg

Specified substance(s)

- | | |
|----------------------|--|
| Isobornyl acrylate | LD 50 (Rat): 4,350 mg/kg |
| N-vinyl caprolactam | LD 50 (Rat): 1,400 mg/kg |
| Phenoxyethylacrylate | LD 50 (Rat): 5,000 mg/kg |
| Benzophenone | LD 50 (Rat): > 10,000 mg/kg
(rat): 10,000 mg/kg |

Hexamethylene diacrylate	LD 50 (Rat): > 5,000 mg/kg
2-Ethylhexyl 4-(dimethylamino)benzoate	No data available.
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	LD 50 (Rat): > 5,000 mg/kg
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Penyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	LD 50 (Rat): > 2,000 mg/kg
Ethoxylated nonylphenol acrylate	No data available.
carbon black (carbon)	LD 50 (Rat): > 8,000 mg/kg
Oxybis(methyl-2,1-ethanediyl) diacrylate	LD 50 (Rat): 4,626 mg/kg
2,6-bis(1,1-dimethylethyl)-4-methylphenol	LD 50 (Rat): > 6,000 mg/kg

Dermal

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

Isobornyl acrylate	LD 50 (Rabbit): > 3,000 mg/kg
N-vinyl caprolactam	LD 50 (Rat): > 2,000 mg/kg
Phenoxyethylacrylate	No data available.
Benzophenone	LD 50 (Rabbit): 3,535 mg/kg (rabbit): 3,535 mg/kg
Hexamethylene diacrylate	LD 50 (Rabbit): 3,650 mg/kg
2-Ethylhexyl 4-(dimethylamino)benzoate	No data available.
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	LD 50 (Rat): > 2,000 mg/kg
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Penyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	LD 50 (Rat): > 2,000 mg/kg

Ethoxylated nonylphenol acrylate	No data available.
carbon black (carbon)	No data available.
Oxybis(methyl-2,1- ethanediyl) diacrylate	LD 50 (Rabbit): > 2,000 mg/kg
2,6-bis(1,1- dimethylethyl)-4- methyl-phenol	LD 50 (Rat): > 2,000 mg/kg

Inhalation

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

Isobornyl acrylate	No data available.
N-vinyl caprolactam	LC 50 (Rat, 8 h): > 1.6 mg/l

Phenoxyethylacrylate	No data available.
Benzophenone	No data available.
Hexamethylene diacrylate	LC 0 (Rat, 7 h): 0.41 mg/l

2-Ethylhexyl 4- (dimethylamino)benzoate	No data available.
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Phosphine oxide,	No data available.
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diphenyl(2,4,6- trimethylbenzoyl)- 2-Propenoic acid ,1-6- hexanediyl ester, polymer	No data available.
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with 2-aminoethanol	No data available.
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Penyl bis(2,4,6- trimethylbenzoyl)- phosphine oxide	No data available.
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Ethoxylated nonylphenol acrylate	No data available.
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carbon black (carbon)	LC 0 (Rat, 4 h): 4.6 mg/m3
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Oxybis(methyl-2,1- ethanediyl) diacrylate	No data available.
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2,6-bis(1,1- dimethylethyl)-4-methyl- phenol	No data available.
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Repeated dose toxicity

Product: No data available.

Specified substance(s)

Isobornyl acrylate	NOAEL (Rat(Female, Male), Inhalation): 0.226 mg/l NOAEL (rat(male/female)): 100 mg/kg NOAEL (Rat(Female, Male), Oral, 28 - 53 d): 100 mg/kg NOAEL (Rat(Female, Male), Inhalation): 0.075 mg/l LOAEL (Rat(Female, Male), Inhalation): 0.753 mg/l
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N-vinyl caprolactam	NOAEL (Rat(Female, Male), Inhalation): 0.058 mg/l
Phenoxyethylacrylate	NOAEL (Rat(Female, Male), Oral, 2 Weeks): 500 mg/kg
Benzophenone	LOAEL : 1,250 ppm(m)
Hexamethylene diacrylate	NOAEL (Rat(Female, Male), Oral, 28 - 52 d): 250 mg/kg
2-Ethylhexyl 4-(dimethylamino)benzoate	No data available.
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	LOAEL (Rat(Female, Male), Oral, 28 d): 250 mg/kg
	LOAEL (Rat(Female, Male), Oral, 64 - 91 d): 300 mg/kg
	NOAEL (Rat(Female, Male), Oral, 64 - 91 d): 100 mg/kg
	NOAEL (Rat(Female, Male), Oral, 28 d): 50 mg/kg
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Penyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	NOAEL (Rat(Female, Male), Oral): 300 mg/kg
Ethoxylated nonylphenol acrylate	No data available.
carbon black (carbon)	NOAEL (Rat(Female), Oral, 52 - 104 Weeks): 52 mg/kg
	LOAEL : 2.5 mg/m3
	NOAEL (Rat(Female, Male), Dermal, 28 d): 1 mg/kg
	NOAEL (Rat(Female, Male), Oral, 28 - 52 d): 250 mg/kg
Oxybis(methyl-2,1-ethanediyl) diacrylate	
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	NOAEL (Rat(Male), Oral, 1.25 - 22.75 Months): 25 mg/kg

Skin Corrosion/Irritation:

Product: Causes skin irritation.

Specified substance(s)

Isobornyl acrylate	No data available.
N-vinyl caprolactam	No data available.
Phenoxyethylacrylate	No data available.
Benzophenone	in vivo (Rabbit): Not irritating
Hexamethylene diacrylate	in vivo (Rabbit): Category 2
2-Ethylhexyl 4-(dimethylamino)benzoate	No data available.
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	No data available.
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.

Penyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
Ethoxylated nonylphenol acrylate	No data available.
carbon black (carbon)	Possibly Irritating
Oxybis(methyl-2,1-ethanediyl) diacrylate	in vivo (Rabbit): Not irritating
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	in vivo (Rabbit): Category 2
	in vivo (Rabbit): Not irritating

Serious Eye Damage/Eye Irritation:

Product: Causes serious eye irritation.

Specified substance(s)

Isobornyl acrylate	No data available.
N-vinyl caprolactam	No data available.
Phenoxyethylacrylate	No data available.
Benzophenone	No data available.
Hexamethylene diacrylate	Irritating
2-Ethylhexyl 4-(dimethylamino)benzoate	No data available.
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	No data available.
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Penyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	in vivo (Rabbit, 24 - 72 hrs): Not Classified EU
Ethoxylated nonylphenol acrylate	No data available.
carbon black (carbon)	in vivo (Rabbit): Not classified as an Irritant EU
Oxybis(methyl-2,1-ethanediyl) diacrylate	in vivo (Rabbit, 24 - 72 hrs): Category 1 OECD GHS
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	in vivo (Rabbit, 24 - 72 hrs): Not irritating EU

Respiratory or Skin Sensitization:

Product: May cause an allergic skin reaction.

Specified substance(s)

Isobornyl acrylate	No data available.
N-vinyl caprolactam	No data available.
Phenoxyethylacrylate	No data available.
Benzophenone	No data available.
Hexamethylene diacrylate	No data available.
2-Ethylhexyl 4-(dimethylamino)benzoate	No data available.
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	No data available.
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Penyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
Ethoxylated nonylphenol acrylate	No data available.
carbon black (carbon)	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	No data available.

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

Isobornyl acrylate	No data available.
N-vinyl caprolactam	No data available.
Phenoxyethylacrylate	No data available.
Benzophenone	No data available.
Hexamethylene diacrylate	No data available.
2-Ethylhexyl 4-(dimethylamino)benzoate	No data available.
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	No data available.
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Penyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.

Ethoxylated nonylphenol acrylate	No data available.
carbon black (carbon)	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
2,6-bis(1,1-dimethylethyl)-4-methylphenol	No data available.

In vivo

Product:	No data available.
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Specified substance(s)

Isobornyl acrylate	No data available.
N-vinyl caprolactam	No data available.
Phenoxyethylacrylate	No data available.
Benzophenone	No data available.
Hexamethylene diacrylate	No data available.
2-Ethylhexyl 4-(dimethylamino)benzoate	No data available.
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	No data available.
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Penyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
Ethoxylated nonylphenol acrylate	No data available.
carbon black (carbon)	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
2,6-bis(1,1-dimethylethyl)-4-methylphenol	No data available.

Carcinogenicity

Product:	No data available.
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Specified substance(s)

Isobornyl acrylate	No data available.
N-vinyl caprolactam	No data available.
Phenoxyethylacrylate	No data available.
Benzophenone	No data available.
Hexamethylene diacrylate	No data available.
2-Ethylhexyl 4-(dimethylamino)benzoate	No data available.

Phosphine oxide, diphenyl(2,4,6- trimethylbenzoyl)-	No data available.
2-Propenoic acid ,1-6- hexanediyl ester, polymer with 2-aminoethanol	No data available.
Penyl bis(2,4,6- trimethylbenzoyl)- phosphine oxide	No data available.
Ethoxylated nonylphenol acrylate	No data available.
carbon black (carbon)	No data available.
Oxybis(methyl-2,1- ethanediyl) diacrylate	No data available.
2,6-bis(1,1- dimethylethyl)-4-methyl- phenol	No data available.

Reproductive toxicity

Product: No data available.

Specified substance(s)

Isobornyl acrylate	No data available.
N-vinyl caprolactam	No data available.
Phenoxyethylacrylate	No data available.
Benzophenone	No data available.
Hexamethylene diacrylate	No data available.
2-Ethylhexyl 4- (dimethylamino)benzoate	No data available.
Phosphine oxide, diphenyl(2,4,6- trimethylbenzoyl)-	No data available.
2-Propenoic acid ,1-6- hexanediyl ester, polymer with 2-aminoethanol	No data available.
Penyl bis(2,4,6- trimethylbenzoyl)- phosphine oxide	No data available.
Ethoxylated nonylphenol acrylate	No data available.
carbon black (carbon)	No data available.
Oxybis(methyl-2,1- ethanediyl) diacrylate	No data available.
2,6-bis(1,1- dimethylethyl)-4-methyl- phenol	No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

Isobornyl acrylate	No data available.
N-vinyl caprolactam	No data available.
Phenoxyethylacrylate	No data available.
Benzophenone	No data available.
Hexamethylene diacrylate	No data available.
2-Ethylhexyl 4-(dimethylamino)benzoate	No data available.
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	No data available.
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Penyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
Ethoxylated nonylphenol acrylate	No data available.
carbon black (carbon)	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
2,6-bis(1,1-dimethylethyl)-4-methylphenol	No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

Isobornyl acrylate	No data available.
N-vinyl caprolactam	No data available.
Phenoxyethylacrylate	No data available.
Benzophenone	No data available.
Hexamethylene diacrylate	No data available.
2-Ethylhexyl 4-(dimethylamino)benzoate	No data available.
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	No data available.
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Penyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
Ethoxylated nonylphenol acrylate	No data available.
carbon black (carbon)	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.

2,6-bis(1,1-dimethylethyl)-4-methylphenol No data available.

Target Organs:
Liver

Aspiration Hazard

Product: No data available.

Specified substance(s)

Isobornyl acrylate	No data available.
N-vinyl caprolactam	No data available.
Phenoxyethylacrylate	No data available.
Benzophenone	No data available.
Hexamethylene diacrylate	No data available.
2-Ethylhexyl 4-(dimethylamino)benzoate	No data available.
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	No data available.
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Penyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
Ethoxylated nonylphenol acrylate	No data available.
carbon black (carbon)	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
2,6-bis(1,1-dimethylethyl)-4-methylphenol	No data available.

SECTION 12: Ecological information

General information: Contains a substance which causes risk of hazardous effects to the environment.

12.1 Toxicity

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

Isobornyl acrylate	No data available.
N-vinyl caprolactam	No data available.
Phenoxyethylacrylate	No data available.
Benzophenone	LC 50 (Oryzias latipes, 96 h): > 10 mg/l experimental result LC50 (Pimephales promelas (fathead minnow), 96 h): 15.3 mg/l LC 50 (Leuciscus idus, 96 h): 4.6 - 10 mg/l (Static) experimental result
Hexamethylene diacrylate	
2-Ethylhexyl 4-(dimethylamino)benzoate	No data available.
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	No data available.
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Penyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	LC 50 (96 h): > 0.09 mg/l experimental result
Ethoxylated nonylphenol acrylate	No data available.
carbon black (carbon)	LC 50 (Danio rerio, 24 h): > 58,000 mg/l
Oxybis(methyl-2,1-ethanediyl) diacrylate	LC 50 (Leuciscus idus, 96 h): 2.2 - 4.64 mg/l (Static) experimental result
2,6-bis(1,1-dimethylethyl)-4-methylphenol	LC 50 (Danio rerio, 96 h): > 100 mg/l (Static) experimental result

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Isobornyl acrylate	No data available.
N-vinyl caprolactam	No data available.
Phenoxyethylacrylate	No data available.
Benzophenone	EC 50 (24 h): 0.28 mg/l experimental result EC50 (Daphnia magna, 24 h): 0.28 mg/l EC 50 (48 h): 2.6 mg/l (Static) experimental result
Hexamethylene diacrylate	
2-Ethylhexyl 4-(dimethylamino)benzoate	No data available.
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	No data available.
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Penyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	EC 50 (48 h): > 1.175 mg/l experimental result
Ethoxylated nonylphenol acrylate	No data available.

carbon black (carbon)	EC 50 (24 h): > 5,600 mg/l (Static) experimental result
Oxybis(methyl-2,1-ethanediyl) diacrylate	EC 50 (48 h): 22.3 mg/l (Static) experimental result
2,6-bis(1,1-dimethylethyl)-4-methylphenol	EC 50 (48 h): 0.48 mg/l (Static) experimental result

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

Isobornyl acrylate	No data available.
N-vinyl caprolactam	No data available.
Phenoxyethylacrylate	No data available.
Benzophenone	NOAEL (Pimephales promelas, 7 d): 2.1 mg/l (flow-through) experimental result NOAEL (Pimephales promelas, 32 d): 3.3 mg/l (flow-through) experimental result LOAEL (Pimephales promelas, 32 d): 6.4 mg/l (flow-through) experimental result LOAEL (Pimephales promelas, 32 d): 1.8 mg/l (flow-through) experimental result NOAEL (Pimephales promelas, 7 d): 5.86 mg/l (flow-through) experimental result
Hexamethylene diacrylate	No data available.
2-Ethylhexyl 4-(dimethylamino)benzoate	No data available.
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	No data available.
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Penyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
Ethoxylated nonylphenol acrylate	No data available.
carbon black (carbon)	NOAEL (Salmo sp., 30 d): 17 mg/l QSAR
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
2,6-bis(1,1-dimethylethyl)-4-methylphenol	No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Isobornyl acrylate	No data available.
N-vinyl caprolactam	No data available.
Phenoxyethylacrylate	No data available.
Benzophenone	No data available.
Hexamethylene diacrylate	No data available.
2-Ethylhexyl 4-(dimethylamino)benzoate	No data available.
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	No data available.
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Penyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
Ethoxylated nonylphenol acrylate	No data available.
carbon black (carbon)	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
2,6-bis(1,1-dimethylethyl)-4-methylphenol	No data available.

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

Isobornyl acrylate	No data available.
N-vinyl caprolactam	No data available.
Phenoxyethylacrylate	No data available.
Benzophenone	No data available.
Hexamethylene diacrylate	No data available.
2-Ethylhexyl 4-(dimethylamino)benzoate	No data available.
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	No data available.
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Penyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
Ethoxylated nonylphenol acrylate	No data available.
carbon black (carbon)	No data available.

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
2,6-bis(1,1-dimethylethyl)-4-methylphenol	No data available.

12.2 Persistence and Degradability

Biodegradation

Product:	No data available.
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Specified substance(s)

Isobornyl acrylate	No data available.
N-vinyl caprolactam	No data available.
Phenoxyethylacrylate	No data available.
Benzophenone	No data available.
Hexamethylene diacrylate	No data available.
2-Ethylhexyl 4-(dimethylamino)benzoate	No data available.
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	No data available.
2-Propenoic acid, 1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Penyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
Ethoxylated nonylphenol acrylate	No data available.
carbon black (carbon)	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
2,6-bis(1,1-dimethylethyl)-4-methylphenol	No data available.

BOD/COD Ratio

Product	No data available.
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Specified substance(s)

Isobornyl acrylate	No data available.
N-vinyl caprolactam	No data available.
Phenoxyethylacrylate	No data available.
Benzophenone	No data available.
Hexamethylene diacrylate	No data available.
2-Ethylhexyl 4-(dimethylamino)benzoate	No data available.
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	No data available.

2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Penyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
Ethoxylated nonylphenol acrylate	No data available.
carbon black (carbon)	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
2,6-bis(1,1-dimethylethyl)-4-methylphenol	No data available.

12.3 Bioaccumulative Potential

Product: No data available.

Specified substance(s)

Isobornyl acrylate	No data available.
N-vinyl caprolactam	No data available.
Phenoxyethylacrylate	No data available.
Benzophenone	No data available.
Hexamethylene diacrylate	No data available.
2-Ethylhexyl 4-(dimethylamino)benzoate	No data available.
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	No data available.
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Penyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
Ethoxylated nonylphenol acrylate	No data available.
carbon black (carbon)	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
2,6-bis(1,1-dimethylethyl)-4-methylphenol	No data available.

12.4 Mobility in Soil: No data available.

Known or predicted distribution to environmental compartments

Isobornyl acrylate	No data available.
N-vinyl caprolactam	No data available.
Phenoxyethylacrylate	No data available.
Benzophenone	No data available.
Hexamethylene diacrylate	No data available.

2-Ethylhexyl 4-(dimethylamino)benzoate	No data available.
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	No data available.
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Penyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
Ethoxylated nonylphenol acrylate	No data available.
carbon black (carbon)	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	No data available.

12.5 Results of PBT and vPvB assessment:

Isobornyl acrylate	Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria Not fulfilling vPvB (very persistent/very bioaccumulative) criteria
N-vinyl caprolactam	No data available.
Phenoxyethylacrylate	No data available.
Benzophenone	No data available.
Hexamethylene diacrylate	No data available.
2-Ethylhexyl 4-(dimethylamino)benzoate	No data available.
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	No data available.
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Penyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
Ethoxylated nonylphenol acrylate	No data available.
carbon black (carbon)	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	No data available.

12.6 Other Adverse Effects: Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: Disposal considerations (including disposal of contaminated containers or packaging) Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Disposal methods: Discharge, treatment, or disposal may be subject to national, state, or local laws.

SECTION 14: Transport information**ADR**

14.1 UN Number: UN 3082
14.2 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Acrylate)
14.3 Transport Hazard Class(es)
Class: 9
Label(s): 9
Hazard No. (ADR): 90
Tunnel restriction code: (E)
14.4 Packing Group: III
Limited quantity 5.00L
Excepted quantity E1
14.5 Environmental Hazards: Yes
14.6 Special precautions for user: SPECIAL PROVISION 375

RID

14.1 UN Number: UN 3082
14.2 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Acrylate)
14.3 Transport Hazard Class(es)
Class: 9
Label(s): 9
14.4 Packing Group: III
14.5 Environmental Hazards: Yes
14.6 Special precautions for user: –

IMDG

14.1 UN Number: UN 3082
14.2 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Acrylate)
14.3 Transport Hazard Class(es)
Class: 9
Label(s): 9
EmS No.: F-A, S-F
14.4 Packing Group: III
Limited quantity 5.00L
Excepted quantity E1
14.5 Environmental Hazards: Environmentally Hazardous
14.6 Special precautions for user: CODE 2.10.2.7

IATA

14.1 UN Number: UN 3082

14.2 Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.(Acrylate)
14.3 Transport Hazard Class(es):
Class: 9
Label(s): 9MI
14.4 Packing Group: III
Limited quantity 30.00KG
Excepted quantity E1
14.5 Environmental Hazards: Yes
14.6 Special precautions for user: SPECIAL PROVISION A197

Other information

Passenger and cargo aircraft: Allowed.

Cargo aircraft only: Allowed.

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:

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

Regulation (EC) No. 689/2008 Import and export of dangerous chemicals: none

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

Chemical name	CAS-No.	Concentration
Nonylphenol-polyethyleneglycol ether	68412-54-4	- <0.1%

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:

Chemical name	CAS-No.	Concentration
Nonylphenol-polyethyleneglycol ether	68412-54-4	- <0.1%

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: none

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.: none

Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances:

Chemical name	CAS-No.	Concentration
Isobornyl acrylate	5888-33-5	30 - 40%

Hexamethylene diacrylate	13048-33-4	1.0 - 10%
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EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants:
none

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	CAS-No.	Concentration
Isobornyl acrylate	5888-33-5	30 - 40%
Hexamethylene diacrylate	13048-33-4	1.0 - 10%
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	75980-60-8	1.0 - 10%
Penyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	162881-26-7	1.0 - 10%
#-caprolactam	105-60-2	0.1 - 1.0%
Phenol, 4-methoxy-	150-76-5	0 - <0.1%

15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Revision Information: Not relevant. Not relevant.

Key literature references and sources for data: Safety Data Sheet from the supplier.
ECHA

Wording of the H-statements in section 2 and 3

H302	Harmful if swallowed.
H303	May be harmful if swallowed.
H313	May be harmful in contact with skin.
H315	Causes skin irritation.
H316	Causes mild skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H361f	Suspected of damaging fertility.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H401	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.
H413	May cause long lasting harmful effects to aquatic life.

Training information: No data available.

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

SDS_GB - 000001016124

30/31

Skin Irrit. 2, H315
Eye Irrit. 2, H319
Skin Sens. 1A, H317
STOT SE 3, H335
STOT RE 1, H372
Aquatic Chronic 2, H411

Issue Date: 28.09.2016

SDS No.:

Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.