

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: ANAPURNA 200 CYAN LIGHT INK **Product No.:** 000001016026

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 NV
Septestraat 27
2640 Mortsel
Belgium

Telephone: +32 3 4442111
Fax: +32 3 4447094

E-mail: electronic.sds@agfa.com

National Supplier

Agfa NV - UK Branch
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 damage	Category 1	H318: Causes serious eye damage.
Skin sensitizer	Category 1	H317: May cause an allergic skin reaction.
Toxic to reproduction	Category 1B	H360Df: May damage the unborn child. Suspected of damaging fertility.
Specific Target Organ Toxicity - Single Exposure	Category 3	H335: May cause respiratory irritation.

Environmental Hazards

Chronic hazards to the aquatic environment

Category 3

H412: Harmful to aquatic life with long lasting effects.

2.2 Label Elements

Contains: Oxybis(methyl-2,1-ethanediyl) diacrylate
 ethoxylated trimethylolpropane triacrylate
 Isodecyl acrylate
 Trimethylolpropane triacrylate
 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one



Signal Word: Danger

Hazard Statement(s): H315: Causes skin irritation.
 H318: Causes serious eye damage.
 H317: May cause an allergic skin reaction.
 H360Df: May damage the unborn child. Suspected of damaging fertility.
 H335: May cause respiratory irritation.
 H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention: P201: Obtain special instructions before use.
 P261: Avoid breathing 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.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310: Immediately call a POISON CENTER/doctor.

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
Oxybis(methyl-2,1-ethanediyl) diacrylate	20 - <50%	57472-68-1	260-754-3	01-2119484629-21-XXXX	No data available.	
ethoxylated trimethylolprop	20 - <50%	28961-43-5	500-066-5	01-2119489900-	No data available.	

ane triacrylate				30-XXXX		
Isodecyl acrylate	10 - <20%	1330-61-6	215-542-5	01-2119964031-47-XXXX	No data available.	
Trimethylolpropane triacrylate	5 - <10%	15625-89-5	239-701-3	01-2119489896-11-XXXX	No data available.	
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	5 - <10%	71868-10-5	400-600-6	01-2119472306-39	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	#
Cetrimonium chloride	0.01 - <1%	112-02-7	203-928-6	No data available.	10	

* 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).

Classification

Chemical name	Classification	Notes
Oxybis(methyl-2,1-ethanediyl) diacrylate	Skin Sens.: 1: H317 Eye Dam.: 1: H318 Skin Irrit.: 2: H315	
ethoxylated trimethylolpropane triacrylate	Eye Irrit.: 2: H319 Skin Sens.: 1: H317	
Isodecyl acrylate	Eye Irrit.: 2: H319 Skin Irrit.: 2: H315 STOT SE: 3: H335 Aquatic Chronic: 2: H411	Note A
Trimethylolpropane triacrylate	Eye Irrit.: 2: H319 Skin Irrit.: 2: H315 Skin Sens.: 1: H317	Note D
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	Acute Tox.: 4: H302 Repr.: 1B: H360Df Aquatic Chronic: 2: H411	No data available.
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	Aquatic Acute: 1: H400 Aquatic Chronic: 1: H410	No data available.
Cetrimonium chloride	Acute Tox.: 4: H302 Acute Tox.: 3: H311 Skin Corr.: 1: H314 Eye Dam.: 1: H318 Aquatic Acute: 1: H400 Aquatic Chronic: 1: H410	

The full text for all H-statements is displayed in section 16.

CLP: Regulation No. 1272/2008.

SECTION 4: First aid measures

General: CAUTION! First aid personnel must be aware of own risk during rescue!

4.1 Description of first aid measures

Inhalation: Move to fresh air.

Skin Contact: Get medical attention. Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.

Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center immediately.
Ingestion:	Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
Personal Protection for First-aid Responders:	See Section 8 of the SDS for Personal Protective Equipment.
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:	See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.
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:	See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling:

Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities:

Store locked up.

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
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	TWA	10 mg/m ³	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)

DNEL-Values

Critical component	Type	Route of Exposure	Health Warnings	Remarks
Oxybis(methyl-2,1-ethanediyl) diacrylate	General population	Dermal	Systemic, long-term; 1.66 mg/kg	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 2.08 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 24.48 mg/m ³	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 2.77 mg/kg	Repeated dose toxicity
ethoxylated trimethylolpropane triacrylate	General population	Inhalation	Systemic, long-term; 7.24 mg/m ³	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 1.4 mg/kg	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 0.8 mg/kg	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 4.9 mg/m ³	Repeated dose toxicity
Isodecyl acrylate	General population	Dermal	Systemic, long-term; 0.5 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 16.2 mg/m ³	Repeated dose toxicity
	Workers	Dermal	Local, long-term; 370 µg/cm ²	Skin sensitization
Trimethylolpropane triacrylate	Workers	Inhalation	Local, long-term; 37.5 mg/m ³	Irritating to respiratory system.
	Workers	Dermal	Systemic, long-term; 0.8 mg/kg	Repeated dose toxicity
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	Workers	Inhalation	Systemic, long-term; 16.2 mg/m ³	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 0.1 mg/kg	Repeated dose toxicity

	Workers	Dermal	Systemic, short-term; 20 mg/kg	Acute toxicity
	General population	Inhalation	Systemic, long-term; 0.16 mg/m ³	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 0.1 mg/kg	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 0.09 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 0.32 mg/m ³	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 0.18 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Systemic, short-term; 5.38 mg/m ³	Acute toxicity
	General population	Oral	Systemic, long-term; 0.05 mg/kg	Repeated dose toxicity
2,6-bis(1,1-dimethylethyl)-4- methyl-phenol	General population	Oral	Systemic, short-term; 100 mg/kg	
	General population	Dermal	Systemic, long-term; 0.25 mg/kg	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 8.3 mg/kg	
	General population	Inhalation	Systemic, long-term; 1.74 mg/m ³	
	Workers	Dermal	Systemic, long-term; 0.3 mg/kg	
	Workers	Dermal	Systemic, long-term; 0.5 mg/kg	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 0.17 mg/kg	
	General population	Oral	Systemic, long-term; 0.17 mg/kg	
	General population	Inhalation	Systemic, long-term; 2.5 mg/m ³	
	Workers	Dermal	Systemic, short-term; 166 mg/kg	
	General population	Inhalation	Systemic, long-term; 0.86 mg/m ³	Repeated dose toxicity
	General population	Dermal	Systemic, short-term; 100 mg/kg	
	Workers	Inhalation	Systemic, long-term; 3.5 mg/m ³	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 5.8 mg/m ³	
	General population	Dermal	Systemic, long-term; 5 mg/kg	
Cetrimonium chloride	General population	Inhalation	Systemic, long-term; 0.98 mg/m ³	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 4.7 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 3.32 mg/m ³	Repeated dose toxicity

PNEC-Values

Critical component	Environmental compartment	PNEC-Values
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
ethoxylated trimethylolpropane triacrylate	Aquatic (freshwater)	0.0034 mg/l
	Aquatic (marine water)	0.000195 mg/l
	Aquatic (intermit. releases)	0.0195 mg/l
	Aquatic (freshwater)	0.00195 mg/l
	Sewage treatment plant	10 mg/l
Isodecyl acrylate	soil	0.00587 mg/kg
	Marine sediments	0.00082 mg/kg
	Predator	5.6 mg/kg
	freshwater sediment	0.0082 mg/kg
	freshwater sediment	0.904 mg/kg

	Marine sediments	0.0904 mg/kg
	Aquatic (intermit. releases)	13 µg/l
	Sewage treatment plant	2.3 mg/l
	Aquatic (marine water)	0.13 µg/l
	soil	0.18 mg/kg
	Aquatic (freshwater)	1.3 µg/l
Trimethylolpropane triacrylate	Marine sediments	0.00062 mg/kg
	Sewage treatment plant	6.25 mg/l
	Aquatic (freshwater)	0.00147 mg/l
	freshwater sediment	0.0062 mg/kg
	soil	0.0043 mg/kg
	Aquatic (marine water)	0.000147 mg/l
	Predator	5.6 mg/kg
	Aquatic (intermit. releases)	0.0147 mg/l
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	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
	Aquatic (marine water)	0.0041 mg/l
Cetrimonium chloride	soil	7 mg/kg
	Aquatic (intermit. releases)	0.0008 mg/l
	Sewage treatment plant	0.4 mg/l
	Aquatic (marine water)	0.000068 mg/l
	freshwater sediment	9.27 mg/kg
	Aquatic (freshwater)	0.00068 mg/l
	Marine sediments	0.927 mg/kg

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.

Eye/face 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 (EN374) 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: Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin. Observe good industrial hygiene practices.

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:	Blue-green
Odor:	Sweetish
Odor Threshold:	No data available.
pH:	No data available.
Freezing point:	< 0 °C
Boiling Point:	> 100 °C
Flash Point:	> 93.33 °C
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.
Density:	No data available.
Relative density:	1.04
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.
SADT:	No data available.
Viscosity:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.

9.2 Other information

VOC Content:	0 g/l EC Directive 2004/42: 579.58 g/l ~57.96 % (calculated) EC Directive 1999/13: 0 g/l ~0 % (calculated)
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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:	Not known.

- 10.4 Conditions to avoid:** Avoid heat or contamination.
- 10.5 Incompatible Materials:** None known.
- 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.
- Skin Contact:** May cause an allergic skin reaction. Causes skin irritation.
- Eye contact:** Eye contact is possible and should be avoided. Causes serious eye damage.
- Ingestion:** May be ingested by accident. Ingestion may cause irritation and malaise.

11.1 Information on toxicological effects

Acute toxicity

Oral

- Product:** ATEmix: 39,680 mg/kg
- Specified substance(s)**
- Oxybis(methyl-2,1-ethanediyl) diacrylate LD 50 (Rat): 4,626 mg/kg Experimental result, Supporting study
- ethoxylated trimethylolpropane triacrylate LD 50 (Rat): > 2,000 mg/kg Experimental result, Key study
- Isodecyl acrylate LD 50 (Rat): 4,435 mg/kg Read-across from supporting substance (structural analogue or surrogate), Key study
- Trimethylolpropane triacrylate LD 50 (Rat): > 5,000 mg/kg Experimental result, Key study
- 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one LD 50 (Rat): 1,984 mg/kg Experimental result, Key study
- 2,6-bis(1,1-dimethylethyl)-4-methylphenol LD 50 (Rat): > 6,000 mg/kg Experimental result, Key study
- Cetrimonium chloride LD 50 (Rat): 861 mg/kg Experimental result, Key study

Dermal

- Product:** Not classified for acute toxicity based on available data.
- Specified substance(s)**
- Oxybis(methyl-2,1-ethanediyl) diacrylate LD 50 (Rabbit) : > 2,000 mg/kg
- ethoxylated trimethylolpropane triacrylate LD 50 (Rabbit) : > 13,200 mg/kg
- Isodecyl acrylate LD 50 (Rabbit) : 7,522 mg/kg
- Trimethylolpropane triacrylate LD 50 : > 2,000 mg/kg
- 2-methyl-1-(4-

methylthiophenyl)-2-morpholinopropan-1-one	LD 50 (Rat) : > 2,000 mg/kg Experimental result, Key study
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	LD 50 (Rat) : > 2,000 mg/kg Experimental result, Supporting study
Cetrimonium chloride	LD 50 (Rabbit) : 1,900 mg/kg

Inhalation

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate ethoxylated	No data available.
trimethylolpropane triacrylate	No data available.
Isodecyl acrylate	LC 50 (Rat, 8 h): > 1.19 mg/l Vapor, Read-across from supporting substance (structural analogue or surrogate), Key study
Trimethylolpropane triacrylate	LC 50 (Rat, 6 h): > 0.55 mg/l Vapor, Experimental result, Weight of Evidence study
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	No data available.
Cetrimonium chloride	No data available.

Repeated dose toxicity

Product:

No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate ethoxylated	NOAEL (Rat(Female, Male), Oral, 28 - 52 d): 250 mg/kg
trimethylolpropane triacrylate	NOAEL (Rat(Female, Male), Oral, 28 - 52 d): 250 mg/kg NOAEL (Mouse, Rat(Female, Male), Dermal, 16 d): >= 200 mg/kg NOAEL (Mouse, Rat(Female, Male), Dermal, 16 d): 25 mg/kg
Isodecyl acrylate	NOAEL (Rat(Female, Male), Inhalation): 0.226 mg/l NOAEL (Rat(Female, Male), Inhalation): 0.075 mg/l LOAEL (Rat(Female, Male), Inhalation): 0.226 mg/l LOAEL (Rat(Female, Male), Inhalation): 0.753 mg/l
Trimethylolpropane triacrylate	NOAEL (Rat(Female, Male), Oral, 28 - 52 d): 250 mg/kg NOAEL (Rat(Female, Male), Oral, 35 - 56 d): >= 500 mg/kg
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	NOAEL (Rat, Oral, 90 d): 10 mg/kg NOAEL (Rat, Oral, 90 d): 75 mg/kg
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	NOAEL (Rat(Male), Oral, 1.25 - 22.75 Months): 25 mg/kg
Cetrimonium chloride	NOAEL (Rat(Female, Male), Oral, 90 d): 113 mg/kg NOAEL (Rat(Female, Male), Oral, 90 d): 22 mg/kg NOAEL (Rabbit(Female, Male), Dermal, 6.5 - 7 h): 10 mg/kg NOAEL (Rat(Female, Male), Oral, 28 d): 300 mg/kg

Skin Corrosion/Irritation:

Product:

No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate ethoxylated trimethylolpropane triacrylate	in vivo (Rabbit): Category 2
Isodecyl acrylate	in vivo (Rabbit): Not irritating
Trimethylolpropane triacrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	in vivo (Rabbit): Slightly irritating
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	No data available.
Cetrimonium chloride	in vivo (Rabbit): Not irritant Experimental result, Key study
	Irritating

Serious Eye Damage/Eye Irritation:

Product:	No data available.
Specified substance(s)	
Oxybis(methyl-2,1-ethanediyl) diacrylate ethoxylated trimethylolpropane triacrylate	in vivo (Rabbit, 24 - 72 hrs): Category 1 OECD GHS
Isodecyl acrylate	in vivo (Rabbit, 24 - 72 hrs): Irritating
Trimethylolpropane triacrylate	Mildly Irritating
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	in vivo (Rabbit, 24 hrs): Moderately irritating
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	in vivo (24 - 72 hrs): Not an irritant EU
Cetrimonium chloride	in vivo (Rabbit, 24 - 72 hrs): Not irritating EU
	Irritating

Respiratory or Skin Sensitization:

Product:	No data available.
Specified substance(s)	
Oxybis(methyl-2,1-ethanediyl) diacrylate ethoxylated trimethylolpropane triacrylate	No data available.
Isodecyl acrylate	No data available.
Trimethylolpropane triacrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	No data available.
Cetrimonium chloride	No data available.

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
ethoxylated	No data available.
trimethylolpropane	
triacrylate	
Isodecyl acrylate	No data available.
Trimethylolpropane	No data available.
triacrylate	
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
2,6-bis(1,1-dimethylethyl)-4-methylphenol	No data available.
Cetrimonium chloride	No data available.

In vivo

Product: No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
ethoxylated	No data available.
trimethylolpropane	
triacrylate	
Isodecyl acrylate	No data available.
Trimethylolpropane	No data available.
triacrylate	
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
2,6-bis(1,1-dimethylethyl)-4-methylphenol	No data available.
Cetrimonium chloride	No data available.

Carcinogenicity

Product: No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
ethoxylated	No data available.
trimethylolpropane	
triacrylate	
Isodecyl acrylate	No data available.
Trimethylolpropane	No data available.
triacrylate	
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
2,6-bis(1,1-dimethylethyl)-4-methylphenol	No data available.
Cetrimonium chloride	No data available.

Reproductive toxicity

Product: May damage fertility or the unborn child.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate ethoxylated	No data available.
trimethylolpropane triacrylate	No data available.
Isodecyl acrylate	No data available.
Trimethylolpropane triacrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
2,6-bis(1,1-dimethylethyl)-4-methylphenol	No data available.
Cetrimonium chloride	No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate ethoxylated	No data available.
trimethylolpropane triacrylate	No data available.
Isodecyl acrylate	No data available.
Trimethylolpropane triacrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
2,6-bis(1,1-dimethylethyl)-4-methylphenol	No data available.
Cetrimonium chloride	No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate ethoxylated	No data available.
trimethylolpropane triacrylate	No data available.
Isodecyl acrylate	No data available.
Trimethylolpropane triacrylate	No information available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
2,6-bis(1,1-dimethylethyl)-4-methylphenol	No data available.
Cetrimonium chloride	No data available.

Aspiration Hazard

Product: No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate ethoxylated trimethylolpropane triacrylate	No data available.
Isodecyl acrylate	No data available.
Trimethylolpropane triacrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
2,6-bis(1,1-dimethylethyl)-4-methylphenol	No data available.
Cetrimonium chloride	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)

Oxybis(methyl-2,1-ethanediyl) diacrylate ethoxylated trimethylolpropane triacrylate	LC 50 (Leuciscus idus, 96 h): 2.2 - 4.64 mg/l (Static) experimental result
Isodecyl acrylate	LC 50 (Danio rerio, 96 h): 1.95 mg/l (Static) experimental result
Trimethylolpropane triacrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	LC 50 (Leuciscus idus, 96 h): 1.47 mg/l (Static) experimental result
2,6-bis(1,1-dimethylethyl)-4-methylphenol	LC 50 (Danio rerio, 96 h): 9 mg/l (semi-static) experimental result
Cetrimonium chloride	LC 0 (Danio rerio, 96 h): >= 0.57 mg/l (semi-static) Experimental result, Key study
	LC 50 (96 h): 0.199 mg/l QSAR QSAR, Key study
	No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate ethoxylated trimethylolpropane triacrylate	EC 50 (48 h): 22.3 mg/l (Static) experimental result
	EC 50 (48 h): 70.7 mg/l (Static) experimental result

Isodecyl acrylate	No data available.
Trimethylolpropane triacrylate	LC 50 (48 h): 19.9 mg/l (Static) experimental result
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	EC 50 (24 h): 15.3 mg/l (semi-static) experimental result
2,6-bis(1,1-dimethylethyl)-4-methylphenol	ED 0 (Daphnia magna, 24 h): >= 1 mg/l (Static) Experimental result, Key study EC 50 (Daphnia pulex, 48 h): 1.44 mg/l (Static) Experimental result, Supporting study EC 50 (Daphnia magna, 48 h): 0.61 mg/l (Static) Experimental result, Key study ED 0 (Daphnia magna, 48 h): >= 0.31 mg/l (Static) Experimental result, Key study NOAEL (Daphnia magna, 48 h): 0.23 mg/l (Static) Experimental result, Key study
Cetrimonium chloride	No data available.

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate ethoxylated	No data available.
trimethylolpropane triacrylate	No data available.
Isodecyl acrylate	No data available.
Trimethylolpropane triacrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
2,6-bis(1,1-dimethylethyl)-4-methylphenol	No data available.
Cetrimonium chloride	No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate ethoxylated	No data available.
trimethylolpropane triacrylate	No data available.
Isodecyl acrylate	No data available.
Trimethylolpropane triacrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
2,6-bis(1,1-dimethylethyl)-4-methylphenol	No data available.
Cetrimonium chloride	No data available.

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate ethoxylated	No data available.
trimethylolpropane triacrylate	No data available.
Isodecyl acrylate	No data available.
Trimethylolpropane triacrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
2,6-bis(1,1-dimethylethyl)-4-methylphenol	No data available.
Cetrimonium chloride	No data available.

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate ethoxylated	No data available.
trimethylolpropane triacrylate	No data available.
Isodecyl acrylate	No data available.
Trimethylolpropane triacrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
2,6-bis(1,1-dimethylethyl)-4-methylphenol	No data available.
Cetrimonium chloride	No data available.

BOD/COD Ratio

Product No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate ethoxylated	No data available.
trimethylolpropane triacrylate	No data available.
Isodecyl acrylate	No data available.
Trimethylolpropane triacrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
2,6-bis(1,1-dimethylethyl)-4-methylphenol	No data available.
Cetrimonium chloride	No data available.

12.3 Bioaccumulative potential

Product: No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate ethoxylated trimethylolpropane triacrylate	No data available.
Isodecyl acrylate	No data available.
Trimethylolpropane triacrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	No data available.
Cetrimonium chloride	No data available.

12.4 Mobility in soil:

No data available.

Known or predicted distribution to environmental compartments

Oxybis(methyl-2,1-ethanediyl) diacrylate ethoxylated trimethylolpropane triacrylate	No data available.
Isodecyl acrylate	No data available.
Trimethylolpropane triacrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	No data available.
Cetrimonium chloride	No data available.

12.5 Results of PBT and vPvB assessment:

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

Oxybis(methyl-2,1-ethanediyl) diacrylate ethoxylated trimethylolpropane triacrylate	No data available.
Isodecyl acrylate	No data available.
Trimethylolpropane triacrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	No data available.
Cetrimonium chloride	No data available.

12.6 Other adverse effects:

Harmful to aquatic life with long lasting effects.

12.7 Additional Information:

No data available.

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.
- Since emptied containers retain product residue, follow label warnings even after container is emptied.

SECTION 14: Transport information**ADR**

- 14.1 UN Number: Not regulated.
14.2 UN Proper Shipping Name: Not regulated.
14.3 Transport Hazard Class(es) Not regulated.
14.4 Packing Group: Not regulated.
14.5 Environmental Hazards: Not regulated.
14.6 Special precautions for user: Not regulated.

RID

- 14.1 UN Number: Not regulated.
14.2 UN Proper Shipping Name: Not regulated.
14.3 Transport Hazard Class(es) Not regulated.
14.4 Packing Group: Not regulated.
14.5 Environmental Hazards: Not regulated.
14.6 Special precautions for user: Not regulated.

IMDG

- 14.1 UN Number: Not regulated.
14.2 UN Proper Shipping Name: Not regulated.
14.3 Transport Hazard Class(es) Not regulated.
14.4 Packing Group: Not regulated.
14.5 Environmental Hazards: Not regulated.
14.6 Special precautions for user: Not regulated.

IATA

- 14.1 UN Number: Not regulated.
14.2 UN Proper Shipping Name: Not regulated.
14.3 Transport Hazard Class(es) Not regulated.
14.4 Packing Group: Not regulated.
14.5 Environmental Hazards: Not regulated.
14.6 Special precautions for user: Not regulated.

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

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC): none

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use: none

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
Isodecyl acrylate	1330-61-6	10 - 20%
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	1.0 - 10%

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants:

Chemical name	CAS-No.	Concentration
blue organic pigment	147-14-8	0.1 - 1.0%

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

Chemical name	CAS-No.	Concentration
Isodecyl acrylate	1330-61-6	10 - 20%
Trimethylolpropane triacrylate	15625-89-5	1.0 - 10%
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	1.0 - 10%
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.

References

PBT PBT: persistent, bioaccumulative and toxic substance.
 vPvB vPvB: very persistent and very bioaccumulative substance.

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.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H360Df	May damage the unborn child. Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Training information: No data available.

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

Skin Irrit. 2, H315	calculated
Eye Dam. 1, H318	calculated
Skin Sens. 1, H317	calculated
Repr. 1B, H360Df	calculated
STOT SE 3, H335	calculated
Aquatic Chronic 3, H412	calculated

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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.