

SAFETY DATA SHEET

According to regulation (EC) n° 1907/2006 Annex II

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

1.1 Product identifier

Product name: ANAPURNA 200 LIGHT MAGENTA INK **Product No.:** 000001016027

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
Units 1 & 2 Ashbourne Court,
Manners Industrial Estate
DE7 8EF Ilkeston
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 2

H411: Toxic 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
 Ethyl 4-dimethylaminobenzoate



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.
 H411: Toxic 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	20 - <50%	28961-43-5		01-	No data	

trimethylolpropane triacrylate				2119489900-30-XXXX;	available.	
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		01-2119472306-39;	No data available.	
Ethyl 4-dimethylamino benzoate	2.5 - <5%	10287-53-3	233-634-3	No data available.	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;	11	#

* 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	No data available.
ethoxylated trimethylolpropane triacrylate	Eye Irrit.: 2: H319 Skin Sens.: 1B: H317	No data available.
Isodecyl acrylate	Skin Irrit.: 2: H315 Eye Irrit.: 2: H319 STOT SE: 3: H335 Skin Sens.: 1B: H317 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.
Ethyl 4-dimethylaminobenzoate	Repr.: 1B: H360 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.

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

CLP: Regulation No. 1272/2008.

SECTION 4: First aid measures

General: Get medical attention if symptoms occur.

4.1 Description of first aid measures

Inhalation: Move to fresh air.

Skin Contact:	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:	Rinse mouth thoroughly.
Personal Protection for First-aid Responders:	CAUTION! First aid personnel must be aware of own risk during rescue! 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:	Treat symptomatically.

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.
6.1.1 For non-emergency personnel:	Use personal protective equipment.
6.1.2 For emergency responders:	Warn everybody of potential hazards and evacuate if necessary. Use personal protective equipment.
6.2 Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer.

6.3 Methods and material for containment and cleaning up:

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Dike far ahead of larger spill for later recovery and disposal.

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 get in eyes. Wash hands thoroughly after 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.

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-ethanediy) diacrylate	Workers	Inhalation	Systemic, long-term; 24.48 mg/m ³	Repeated dose toxicity
	General population		Systemic, long-term; 7.24 mg/m ³	Repeated dose toxicity
	Workers	Eyes	Local effect;	No data available
	General population		Local effect;	No data available
		Dermal	Systemic, long-term; 1.66 mg/kg bw/day	Repeated dose toxicity
		Oral	Systemic, long-term; 2.08 mg/kg bw/day	Repeated dose toxicity
ethoxylated trimethylolpropane triacrylate	Workers	Dermal	Systemic, long-term; 2.77 mg/kg bw/day	Repeated dose toxicity
	General population	Eyes	Local effect;	No data available
	Workers	Dermal	Systemic, long-term; 0.8 mg/kg bw/day	Repeated dose toxicity
		Eyes	Local effect;	No data available
		Inhalation	Systemic, long-term; 16.2 mg/m ³	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 0.5 mg/kg bw/day	Repeated dose toxicity
		Inhalation	Systemic, long-term; 4.9 mg/m ³	Repeated dose toxicity
		Oral	Systemic, long-term; 1.4 mg/kg bw/day	Repeated dose toxicity
Isodecyl acrylate	Workers	Dermal	Local, long-term; 370 µg/cm ²	Skin sensitization
		Inhalation	Local, long-term; 37.5 mg/m ³	Irritating to respiratory system.
		Eyes	Local effect;	No hazard identified
	General population		Local effect;	No hazard identified

Trimethylolpropane triacrylate	Workers		Local effect;	Low hazard (no threshold derived)
	General population		Local effect;	Low hazard (no threshold derived)
	Workers	Inhalation	Systemic, long-term; 3.5 mg/m ³	Repeated dose toxicity
		Dermal	Systemic, long-term; 83 mg/kg bw/day	Repeated dose toxicity
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	General population	Inhalation	Systemic, long-term; 0.16 mg/m ³	Repeated dose toxicity
	Workers		Systemic, short-term; 5.38 mg/m ³	Acute toxicity
		Dermal	Systemic, long-term; 0.18 mg/kg bw/day	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 0.05 mg/kg bw/day	Repeated dose toxicity
		Inhalation	Systemic, long-term; 0.16 mg/m ³	Repeated dose toxicity
	Workers	Eyes	Local effect;	No data available
	General population		Local effect;	No hazard identified
	Workers	Inhalation	Systemic, long-term; 0.32 mg/m ³	Repeated dose toxicity
			Systemic, long-term; 0.32 mg/m ³	Repeated dose toxicity
	General population	Eyes	Local effect;	No data available
		Dermal	Systemic, long-term; 0.09 mg/kg bw/day	Repeated dose toxicity
		Inhalation	Systemic, long-term; 0.7 mg/m ³	Developmental toxicity
	Workers	Eyes	Local effect;	No hazard identified
	General population	Oral	Systemic, long-term; 0.2 mg/kg bw/day	Developmental toxicity
	Workers	Dermal	Systemic, long-term; 0.4 mg/kg bw/day	Developmental toxicity
	General population		Systemic, long-term; 0.1 mg/kg bw/day	Repeated dose toxicity
			Systemic, long-term; 0.2 mg/kg bw/day	Developmental toxicity
	Workers		Systemic, long-term; 0.1 mg/kg bw/day	Repeated dose toxicity
		Inhalation	Systemic, long-term; 2.82 mg/m ³	Developmental toxicity
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol		Dermal	Systemic, long-term; 0.5 mg/kg bw/day	Repeated dose toxicity
	General population	Eyes	Local effect;	No data available
		Inhalation	Systemic, long-term; 0.86 mg/m ³	Repeated dose toxicity
	Workers	Eyes	Local effect;	No data available
		Inhalation	Systemic, long-term; 3.5 mg/m ³	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 0.25 mg/kg bw/day	Repeated dose toxicity

PNEC-Values

Critical component	Environmental compartment	PNEC-Values
Oxybis(methyl-2,1-ethanediyl) diacrylate	freshwater sediment	0.009 mg/kg
	Aquatic (marine water)	0 mg/l
	soil	0.001 mg/kg
	Aquatic (freshwater)	0.003 mg/l
	Sewage treatment plant	100 mg/l
ethoxylated trimethylolpropane triacrylate	soil	0.006 mg/kg

	Marine sediments	0.001 mg/kg
	Sewage treatment plant	10 mg/l
	freshwater sediment	0.008 mg/kg
	Aquatic (freshwater)	0.002 mg/l
	Predator	5.6 mg/kg
	Aquatic (marine water)	0 mg/l
Isodecyl acrylate	soil	0.18 mg/kg
	Aquatic (intermit. releases)	13 µg/l
	freshwater sediment	0.904 mg/kg
	Marine sediments	0.09 mg/kg
	Aquatic (freshwater)	1.3 µg/l
	Aquatic (marine water)	0.13 µg/l
	Sewage treatment plant	2.3 mg/l
Trimethylolpropane triacrylate	Aquatic (marine water)	0 mg/l
	Predator	10 mg/kg
	Aquatic (freshwater)	0.001 mg/l
	soil	0.005 mg/kg
	freshwater sediment	0.015 mg/kg
	Sewage treatment plant	6.25 mg/l
	Marine sediments	0.003 mg/kg
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	Predator	2.22 mg/kg
	Aquatic (marine water)	0 mg/l
	freshwater sediment	1.139 mg/kg
		0.017 mg/kg
	Marine sediments	0.114 mg/kg
	soil	0.087 mg/kg
	Marine sediments	0.002 mg/kg
	Aquatic (freshwater)	0.001 mg/l
	Aquatic (marine water)	0.002 mg/l
	Marine sediments	0.002 ng/kg
	Aquatic (intermit. releases)	0.012 mg/l
	Aquatic (freshwater)	0.017 mg/l
	Sewage treatment plant	1 mg/l
	soil	0.081 mg/kg
	freshwater sediment	0.017 mg/kg
	Predator	16.7 mg/kg
	soil	0.013 mg/kg
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	Predator	8.33 mg/kg
	Marine sediments	9.96 µg/kg
	Sewage treatment plant	0.17 mg/l
	Aquatic (freshwater)	0.199 µg/l
	soil	47.69 µg/kg
	freshwater sediment	99.6 µg/kg
	Aquatic (marine water)	0.02 µg/l

8.2 Exposure controls

Appropriate Engineering Controls: Provide adequate ventilation.

Individual protection measures, such as personal protective equipment

General information: Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. 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: > 0.35 mm Break-through time: > 240 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 get in eyes. Observe good industrial hygiene practices. 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.
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:	purple
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.
Viscosity:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.

9.2 Other information

VOC Content:	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.
- Eye contact:** 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 No data available.
 - 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
 - Ethyl 4-dimethylaminobenzoate No data available.
 - 2,6-bis(1,1-dimethylethyl)-4-methylphenol LD 50 (Rat): > 6,000 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 Experimental result, Key study
 - ethoxylated LD 50 (Rabbit): > 13,200 mg/kg

trimethylolpropane triacrylate	
Isodecyl acrylate	No data available.
Trimethylolpropane triacrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	LD 50: > 2,000 mg/kg
Ethyl 4-dimethylaminobenzoate	No data available.
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	LD 50 (Rat): > 2,000 mg/kg Experimental result, Key study

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	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
Ethyl 4-dimethylaminobenzoate	No data available.
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	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
Isodecyl acrylate	NOAEL (Mouse, Rat(Female, Male), Dermal, 16 d): >= 200 mg/kg
Trimethylolpropane triacrylate	NOAEL (Mouse, Rat(Female, Male), Dermal, 16 d): 25 mg/kg
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	NOAEL (Rat(Female, Male), Inhalation): 0.075 mg/l
Ethyl 4-dimethylaminobenzoate	NOAEL (Rat(Female, Male), Oral, 35 - 56 d): >= 500 mg/kg
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	NOAEL (Rat(Female, Male), Oral, 28 - 52 d): 250 mg/kg
	NOAEL (Rat, Oral, 90 d): 10 mg/kg
	NOAEL (Rat, Oral, 90 d): 75 mg/kg
	No data available.
	NOAEL (Rat(Male), Oral, 1.25 - 22.75 Months): 25 mg/kg

Skin Corrosion/Irritation:

Product: No data available.

Specified substance(s):

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

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 in vivo (Rabbit, 24 - 72 hrs): Irritating
Isodecyl acrylate	Mildly Irritating
Trimethylolpropane triacrylate	in vivo (Rabbit, 24 hrs): Moderately irritating
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	in vivo (24 - 72 hrs): Not an irritant EU
Ethyl 4-dimethylaminobenzoate	No data available.
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	in vivo (Rabbit, 24 - 72 hrs): Not irritating EU

Respiratory or Skin

Sensitization:

Product:

No data available.

Specified substance(s):

Oxybis(methyl-2,1-ethanediyl) diacrylate ethoxylated trimethylolpropane triacrylate	No data available. 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.
Ethyl 4-dimethylaminobenzoate	No data available.

2,6-bis(1,1-dimethylethyl)-4-methyl-phenol

Skin sensitization:, in vivo (Guinea pig): Non sensitising

Germ Cell Mutagenicity

In vitro

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.
- Ethyl 4-dimethylaminobenzoate No data available.
- 2,6-bis(1,1-dimethylethyl)-4-methyl-phenol No data available.

In vivo

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.
- Ethyl 4-dimethylaminobenzoate No data available.
- 2,6-bis(1,1-dimethylethyl)-4-methyl-phenol No data available.

Carcinogenicity

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

Reproductive toxicity

Product: May damage fertility or the unborn child.

Specified substance(s):

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

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s):

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
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.
Ethyl 4-dimethylaminobenzoate	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):

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

Aspiration Hazard

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.
Ethyl 4-dimethylaminobenzoate	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)

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

dimethylethyl)-4-methyl-phenol

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate ethoxylated trimethylolpropane triacrylate
 No data available.
 EC 50 (48 h): 70.7 mg/l (Static) experimental result

Isodecyl acrylate
 No data available.

Trimethylolpropane triacrylate
 LC 50 (Daphnia magna, 48 h): 19.9 mg/l (Static) Experimental result, Key study
 EC 50 (24 h): 15.3 mg/l (semi-static) experimental result

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one
 No data available.

Ethyl 4-dimethylaminobenzoate
 EC 50 (Daphnia magna, 48 h): 0.61 mg/l (Static) Experimental result, Key study
 NOAEL (Daphnia magna, 48 h): 0.23 mg/l (Static) Experimental result, Key study
 EC 50 (Daphnia magna, 24 h): > 0.7 mg/l (Static) Experimental result, Key study
 NOAEL (Daphnia magna, 48 h): 0.15 mg/l (Static) Experimental result, Key study
 EC 50 (Daphnia magna, 48 h): 0.48 mg/l (Static) Experimental result, Key study

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate ethoxylated trimethylolpropane triacrylate
 No data available.
 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.

Ethyl 4-dimethylaminobenzoate
 No data available.

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

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate ethoxylated
 No data available.
 No data available.

trimethylolpropane triacrylate	
Isodecyl acrylate	No data available.
Trimethylolpropane triacrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
Ethyl 4-dimethylaminobenzoate	No data available.
2,6-bis(1,1-dimethylethyl)-4-methylphenol	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.
Ethyl 4-dimethylaminobenzoate	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)

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

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate ethoxylated trimethylolpropane triacrylate	(28 d): 90 - 100 % Detected in water. Experimental result, Key study
Isodecyl acrylate	No data available.
Trimethylolpropane triacrylate	(15 d): 70 - 80 % Detected in water. Read-across from supporting substance (structural analogue or surrogate), Key study
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
Ethyl 4-dimethylaminobenzoate	No data available.
2,6-bis(1,1-dimethylethyl)-4-methylphenol	(28 d): 4.5 % Detected in water. Experimental result, Key study > 75 % soil Experimental result, Key study > 85 % soil Experimental result, Key study > 80 % soil Experimental result, Key study (20 d): < 10 % Detected in water. Not specified

BOD/COD Ratio 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.
Ethyl 4-dimethylaminobenzoate	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)

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.
Ethyl 4-dimethylaminobenzoate	No data available.

2,6-bis(1,1-dimethylethyl)-4-methyl-phenol

Cyprinus carpio, Bioconcentration Factor (BCF): 230 - 2,500 Aquatic sediment Experimental result, Weight of Evidence study
 Cyprinus carpio, Bioconcentration Factor (BCF): 230 - 2,500 Aquatic sediment Experimental result, Key study
 Cyprinus carpio, Bioconcentration Factor (BCF): 330 - 1,800 Aquatic sediment Experimental result, Key study
 Bioconcentration Factor (BCF): 598.4 Aquatic sediment Estimated by calculation, Weight of Evidence study
 Cyprinus carpio, Bioconcentration Factor (BCF): 13 - 17 Aquatic sediment Experimental result, Supporting study

12.4 Mobility in soil

Product No data available.

Known or predicted distribution to environmental compartments

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.
 Ethyl 4-dimethylaminobenzoate No data available.
 2,6-bis(1,1-dimethylethyl)-4-methyl-phenol No data available.

12.5 Results of PBT and vPvB assessment

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

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.
 Ethyl 4-dimethylaminobenzoate 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.
Packaging:	Since emptied containers retain product residue, follow label warnings even after container is emptied.

SECTION 14: Transport information**ADR**

14.1 UN Number:	UN 3082
14.2 UN Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
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.
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.
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
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14.2 Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.
 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: none

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

The packaging shall be visibly, legibly and indelibly marked as follows:
 Restricted to professional users.

Chemical name	CAS-No.	Concentration
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	1.0 - 10%

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

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I:

E2. Hazardous to the aquatic environment 200 t 500 t

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
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

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to Regulation (EC) No 1272/2008 as amended.	Classification procedure
Skin irritation, Category 2	Calculation method
Serious eye damage, Category 1	Calculation method
Skin sensitizer, Category 1	Calculation method
Toxic to reproduction, Category 1B	Calculation method
Specific Target Organ Toxicity - Single Exposure, Category 3	Calculation method
Chronic hazards to the aquatic environment, Category 2	Calculation method

Wording of the H-statements in section 2 and 3

H302 Harmful if swallowed.
 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.
 H360 May damage fertility or the unborn child.
 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.

Training information: Follow training instructions when handling this material.

Issue Date: 21.11.2018

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.

