

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 250 BLACK INK

Product No.: 000001016186

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 damage	Category 1	H318: Causes serious eye damage.
Skin sensitizer	Category 1	H317: May cause an allergic skin reaction.

Toxic to reproduction	Category 1B	H360FD: May damage fertility. May damage the unborn child.
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.
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2.2 Label Elements

Contains:

2-(2-Vinyloxyethoxy) ethyl acrylate
 Oxybis(methyl-2,1-ethanediyl) diacrylate
 4-(1,1-Dimethylethyl)cyclohexyl acrylate
 ethoxylated trimethylolpropane triacrylate
 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one



Signal Words: Danger

Hazard Statement(s): H315: Causes skin irritation.
 H317: May cause an allergic skin reaction.
 H318: Causes serious eye damage.
 H335: May cause respiratory irritation.
 H360FD: May damage fertility. May damage the unborn child.
 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.
 P281: Use personal protective equipment as required.

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/...
 P308+P313: IF exposed or concerned: Get medical advice/attention.

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
2-(2-Vinyloxyethoxy) ethyl acrylate	25 - <50%	86273-46-3		01-2119441302-54-XXXX	No data available.	
Oxybis(methyl-2,1-ethanediyl) diacrylate	10 - <20%	57472-68-1	260-754-3	01-2119484629-21-XXXX	No data available.	
4-(1,1-Dimethylethyl) cyclohexyl acrylate	10 - <20%	84100-23-2	282-104-8	No data available.	No data available.	
ethoxylated trimethylolpropane triacrylate	10 - <20%	28961-43-5		01-2119489900-30-XXXX	No data available.	
2-[[[(Butylamino) carbonyl]oxy]ethyl acrylate	5 - <10%	63225-53-6	264-036-0	No data available.	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-benzyl-2-dimethylamino-4-morpholinobutyrophenone	1 - <2.5%	119313-12-1	404-360-3	01-0000015394-70-00XX	No data available.	
2,6-bis(1,1-dimethylethyl)-4-methyl-	0.1 - <0.25%	128-37-0	204-881-4	01-2119565113-46-0000	1	#

phenol						
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).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Classification

Chemical name	Classification	Notes
2-(2-Vinyloxyethoxy) ethyl acrylate	Acute Tox.: 4: H302 Skin Sens.: 1: H317 Aquatic Chronic: 3: H412	
Oxybis(methyl-2,1-ethanediyl) diacrylate	Skin Sens.: 1: H317 Eye Dam.: 1: H318 Skin Irrit.: 2: H315	
4-(1,1-Dimethylethyl)cyclohexyl acrylate	STOT SE: 3: H335 Skin Irrit.: 2: H315 Eye Irrit.: 2: H319 Aquatic Chronic: 2: H411	Note A
ethoxylated trimethylolpropane triacrylate	Eye Irrit.: 2: H319 Skin Sens.: 1: H317	
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	Eye Irrit.: 2: H319 Skin Irrit.: 2: H315	
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	Repr.: 1B: H360FD Acute Tox.: 4: H302 Aquatic Chronic: 2: H411 Aquatic Chronic: 2: H411	No data available.
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	Repr.: 2: H361d Aquatic Acute: 1: H400 Aquatic Chronic: 1: H410	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	

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.

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.

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.

Ingestion: Call a POISON CENTER/doctor/.../if you feel unwell. Rinse mouth.

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: Use fire-extinguishing media appropriate for surrounding materials.

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:

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:

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)

Biological Limit Values

None.

DNEL-Values

Critical component	type	Route of Exposure		Remarks
2-(2-Vinyloxyethoxy) ethyl acrylate	General population	Inhalation	0.005 mg/m ³	
	General population	Oral	0.5 mg/kg	
	General population	Dermal	20 mg/kg	
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/m ³	Repeated dose toxicity
ethoxylated trimethylolpropane triacrylate	Workers	Dermal	2.77 mg/kg	Repeated dose toxicity
	General population	Inhalation	7.24 mg/m ³	Repeated dose toxicity
	General population	Oral	1.4 mg/kg	Repeated dose toxicity
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	Workers	Dermal	0.8 mg/kg	Repeated dose toxicity
	General population	Inhalation	4.9 mg/m ³	Repeated dose toxicity
	General population	Dermal	0.5 mg/kg	Repeated dose toxicity
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	Workers	Inhalation	16.2 mg/m ³	Repeated dose toxicity
	General population	Dermal	0.1 mg/kg	Repeated dose toxicity
	Workers	Dermal	20 mg/kg	Acute toxicity
	General population	Inhalation	0.16 mg/m ³	Repeated dose toxicity

	Workers	Dermal	0.1 mg/kg	Repeated dose toxicity
	General population	Dermal	0.09 mg/kg	Repeated dose toxicity
	Workers	Inhalation	0.32 mg/m3	Repeated dose toxicity
	Workers	Dermal	0.18 mg/kg	Repeated dose toxicity
	Workers	Inhalation	5.38 mg/m3	Acute toxicity
	General population	Oral	0.05 mg/kg	Repeated dose toxicity
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	Workers	Dermal	1 mg/cm2	Repeated dose toxicity
	General population	Inhalation	2.5 mg/m3	Repeated dose toxicity
	Workers	Dermal	0.23 mg/kg	Repeated dose toxicity
	Workers	Dermal	0.23 mg/kg	Repeated dose toxicity
	Workers	Inhalation	1.65 mg/m3	Repeated dose toxicity
	General population	Oral	8 mg/kg	Repeated dose toxicity
	General population	Inhalation	2.5 mg/m3	Repeated dose toxicity
	Workers	Inhalation	0.17 mg/m3	Repeated dose toxicity
	Workers	Dermal	5 mg/cm2	Repeated dose toxicity
	Workers	Dermal	0.17 mg/kg	Repeated dose toxicity
	General population	Oral	0.08 mg/kg	Repeated dose toxicity
	Workers	Inhalation	5 mg/m3	Repeated dose toxicity
	General population	Inhalation	0.88 mg/m3	Repeated dose toxicity
	General population	Dermal	0.08 mg/kg	Repeated dose toxicity
	General population	Dermal	2.5 mg/cm2	Repeated dose toxicity
	Workers	Dermal	5 mg/kg	Repeated dose toxicity
	Workers	Inhalation	1 mg/m3	Repeated dose toxicity
	General population	Inhalation	8 mg/m3	Repeated dose toxicity
	General population	Dermal	8 mg/kg	Repeated dose toxicity
	General population	Oral	2.5 mg/kg	Repeated dose toxicity
	General population	Dermal	2.5 mg/kg	Repeated dose toxicity
	General population	Oral	0.08 mg/kg	Repeated dose toxicity
	Workers	Inhalation	1.65 mg/m3	Repeated dose toxicity
	General population	Inhalation	0.88 mg/m3	Repeated dose toxicity
	General population	Dermal	0.5 mg/cm2	Repeated dose toxicity
	General population	Dermal	0.08 mg/kg	Repeated dose toxicity
	General population	Inhalation	0.5 mg/m3	Repeated dose toxicity
	Workers	Inhalation	5 mg/m3	Repeated dose toxicity
2,6-bis(1,1-dimethylethyl)-4-methylphenol	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/m ³	
	General population	Dermal	5 mg/kg	
Phenol, 4-methoxy-	Workers	Inhalation	10 mg/m ³	Acute toxicity
	Workers	Inhalation	3 mg/m ³	Repeated dose toxicity
Cetrimonium chloride	General population	Inhalation	0.98 mg/m ³	Repeated dose toxicity
	Workers	Dermal	4.7 mg/kg	Repeated dose toxicity
octamethylcyclotetrasiloxane	Workers	Inhalation	3.32 mg/m ³	Repeated dose toxicity
	General population	Inhalation	73 mg/m ³	Repeated dose toxicity
	General population	Inhalation	13 mg/m ³	Repeated dose toxicity
	General population	Oral	3.7 mg/kg	Repeated dose toxicity
	General population	Inhalation	13 mg/m ³	Irritating to respiratory system.
	General population	Inhalation	2.6 mg/m ³	Irritating to respiratory system.
	General population	Oral	3.7 mg/kg	Repeated dose toxicity
	General population	Inhalation	13 mg/m ³	Repeated dose toxicity
	Workers	Inhalation	14.6 mg/m ³	Irritating to respiratory system.

PNEC-Values

Critical component	Environmental compartment		Remarks
2-(2-Vinyloxyethoxy) ethyl acrylate	Aquatic (freshwater)	0.0078 mg/l	
	Aquatic (marine water)	0.00078 mg/l	
	Sewage treatment plant	7.41 mg/l	
	Aquatic (intermit. releases)	0.068 mg/l	
	soil	0.00569 mg/kg	
	freshwater sediment	0.012 mg/kg	
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	
ethoxylated trimethylolpropane triacrylate	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	
	soil	0.00587 mg/kg	
	Marine sediments	0.00082 mg/kg	
	Predator	5.6 mg/kg	
freshwater sediment	0.0082 mg/kg		

2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	freshwater sediment	0.0458 mg/kg	
	Aquatic (intermit. releases)	0.005 mg/l	
	Marine sediments	0.00458 mg/kg	
	Aquatic (freshwater)	0.00046 mg/l	
	soil	0.0219 mg/kg	
	Sewage treatment plant	0.005 mg/l	
	Marine sediments	0.00015 mg/kg	
	freshwater sediment	0.015 mg/kg	
	freshwater sediment	0.0005 mg/kg	
	soil	0.0026 mg/kg	
	Aquatic (intermit. releases)	0.0046 mg/l	
	Aquatic (marine water)	0.000046 mg/l	
	Aquatic (freshwater)	0.0005 mg/l	
	Aquatic (marine water)	0.00005 mg/l	
	Predator	1.67 mg/kg	
	Sewage treatment plant	0.59 mg/l	
2,6-bis(1,1-dimethylethyl)-4-methylphenol	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	
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	
octamethylcyclotetrasiloxane	freshwater sediment	0.59 mg/kg	
	Predator	1.7 mg/kg	
	Aquatic (freshwater)	0.44 µg/l	
	Sewage treatment plant	10 mg/l	
	soil	0.15 mg/kg	
	Marine sediments	0.059 mg/kg	
	Aquatic (marine water)	0.044 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.

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. 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:	Black
Odor:	Sweetish
Odor Threshold:	No data available.
pH:	No data available.
Freezing point:	< 0 °C
Boiling Point:	> 100 °C
Flash Point:	> 100 °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.
Relative density:	1.0 - 1.1
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: 0.15 g/l ~0.02 % (calculated) EC Directive 2004/42: 434.18 g/l ~43.42 % (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:** 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:** May cause an allergic skin reaction. Causes skin irritation.
- Eye contact:** Eye contact is possible and should be avoided. Causes serious eye damage.

11.1 Information on toxicological effects

Acute toxicity

Oral

- Product:** ATEmix: 4,863.98 mg/kg
- Specified substance(s)**
- 2-(2-Vinyloxyethoxy) ethyl acrylate LD 50 (Rat): 1,790 mg/kg
- Oxybis(methyl-2,1-ethanediyl) diacrylate LD 50 (Rat): 4,626 mg/kg
- 4-(1,1-Dimethylethyl)cyclohexyl acrylate LD 50 (Rat): > 2,000 mg/kg
- ethoxylated trimethylolpropane triacrylate LD 50 (Rat): > 2,000 mg/kg
- 2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate LD 50 (Rat): > 2,000 mg/kg
- 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one LD 50 (Rat): 1,984 mg/kg
- 2-benzyl-2-dimethylamino-4-morpholinobutyrophenone LD 50: > 5,000 mg/kg

2,6-bis(1,1-dimethylethyl)-4-methylphenol	LD 50 (Rat): > 6,000 mg/kg
Cetrimonium chloride	LD 50 (Rat): 861 mg/kg

Dermal

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

Specified substance(s)

2-(2-Vinyloxyethoxy) ethyl acrylate	LD 50 (Rat): > 2,000 mg/kg
Oxybis(methyl-2,1-ethanediyl) diacrylate	LD 50 (Rabbit): > 2,000 mg/kg
4-(1,1-Dimethylethyl)cyclohexyl acrylate	No data available.
ethoxylated trimethylolpropane triacrylate	LD 50 (Rabbit): > 13,200 mg/kg
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	LD 50: > 2,000 mg/kg
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	LD 50 (Rat): > 2,000 mg/kg
2,6-bis(1,1-dimethylethyl)-4-methylphenol	LD 50 (Rat): > 2,000 mg/kg
Cetrimonium chloride	LD 50 (Rabbit): 1,900 mg/kg

Inhalation

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

Specified substance(s)

2-(2-Vinyloxyethoxy) ethyl acrylate	LC 50 (Rat, 4 h): > 5.04 mg/l
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
4-(1,1-Dimethylethyl)cyclohexyl acrylate	No data available.
ethoxylated trimethylolpropane	No data available.

triacrylate	
2- [[[(Butylamino)carbonyl]oxy ethyl acrylate	No data available.
2-methyl-1-(4- methylthiophenyl)-2- morpholinopropan-1-one	No data available.
2-benzyl-2- dimethylamino-4- morpholinobutyrophenon e	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)

2-(2-Vinyloxyethoxy) ethyl acrylate	NOAEL (Rat(Female, Male), Oral, 28 d): 160 mg/kg
Oxybis(methyl-2,1- ethanediyl) diacrylate	NOAEL (Rat(Female, Male), Oral, 28 - 52 d): 250 mg/kg
4-(1,1- Dimethylethyl)cyclohexyl acrylate	No data available.
ethoxylated	NOAEL (Rat(Female, Male), Oral, 28 - 52 d): 250 mg/kg
trimethylolpropane	NOAEL (Mouse, Rat(Female, Male), Dermal, 16 d): >= 200 mg/kg
triacrylate	NOAEL (Mouse, Rat(Female, Male), Dermal, 16 d): 25 mg/kg
2- [[[(Butylamino)carbonyl]oxy ethyl acrylate	No data available.
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-benzyl-2- dimethylamino-4- morpholinobutyrophenon e	NOAEL (Rat, Oral, 28 d): 50 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: Causes skin irritation.

Specified substance(s)

2-(2-Vinyloxyethoxy) ethyl acrylate	in vivo (Rabbit): Not irritating
Oxybis(methyl-2,1-ethanediyl) diacrylate	in vivo (Rabbit): Category 2
4-(1,1-Dimethylethyl)cyclohexyl acrylate	Draize (Rabbit): Irritating to skin.
ethoxylated trimethylolpropane triacrylate	in vivo (Rabbit): Not irritating
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	Irritating to skin.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	No data available.
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	in vivo (Rabbit): Not irritating
Cetrimonium chloride	Irritating

Serious Eye Damage/Eye Irritation:

Product: Causes serious eye damage.

Specified substance(s)

2-(2-Vinyloxyethoxy) ethyl acrylate	in vivo (Rabbit): Not irritating EU
Oxybis(methyl-2,1-ethanediyl) diacrylate	in vivo (Rabbit, 24 - 72 hrs): Category 1 OECD GHS
4-(1,1-Dimethylethyl)cyclohexyl acrylate	Draize (Rabbit): Irritating to eyes.
ethoxylated trimethylolpropane triacrylate	in vivo (Rabbit, 24 - 72 hrs): Irritating
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	Causes serious eye irritation.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	in vivo (24 - 72 hrs): Not an irritant EU

2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	in vivo (24 - 72 hrs): Non-irritant and non-corrosive EU
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	in vivo (Rabbit, 24 - 72 hrs): Not irritating EU
Cetrimonium chloride	Irritating

Respiratory or Skin

Sensitization:

Product: May cause an allergic skin reaction.

Specified substance(s)

2-(2-Vinyloxyethoxy) ethyl acrylate	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
4-(1,1-Dimethylethyl)cyclohexyl acrylate	Prolonged or repeated contact may cause skin sensitization in susceptible individuals.
ethoxylated trimethylolpropane triacrylate	No data available.
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	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)

2-(2-Vinyloxyethoxy) ethyl acrylate	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.

4-(1,1-Dimethylethyl)cyclohexyl acrylate ethoxylated trimethylolpropane triacrylate	No data available.
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	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)

2-(2-Vinyloxyethoxy) ethyl acrylate	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
4-(1,1-Dimethylethyl)cyclohexyl acrylate ethoxylated trimethylolpropane triacrylate	No data available.
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	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)

2-(2-Vinyloxyethoxy) ethyl acrylate	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
4-(1,1-Dimethylethyl)cyclohexyl acrylate	No data available.
ethoxylated trimethylolpropane triacrylate	No data available.
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	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)

2-(2-Vinyloxyethoxy) ethyl acrylate	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
4-(1,1-Dimethylethyl)cyclohexyl acrylate	No data available.
ethoxylated trimethylolpropane triacrylate	No data available.
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.

2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	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)

2-(2-Vinyloxyethoxy) ethyl acrylate	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
4-(1,1-Dimethylethyl)cyclohexyl acrylate	No data available.
ethoxylated trimethylolpropane triacrylate	No data available.
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	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)

2-(2-Vinyloxyethoxy) ethyl acrylate	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
4-(1,1-Dimethylethyl)cyclohexyl acrylate	No data available.

ethoxylated trimethylolpropane triacrylate	No data available.
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	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)

2-(2-Vinyloxyethoxy) ethyl acrylate	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
4-(1,1-Dimethylethyl)cyclohexyl acrylate	No data available.
ethoxylated trimethylolpropane triacrylate	No data available.
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	No data available.
2,6-bis(1,1-dimethylethyl)-4-methylphenol	No data available.
Cetrimonium chloride	No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

2-(2-Vinyloxyethoxy) ethyl acrylate	LC 50 (Danio rerio, 96 h): 6.8 mg/l (semi-static) experimental result NOAEL (Danio rerio, 96 h): 2.2 mg/l (semi-static) experimental result
Oxybis(methyl-2,1-ethanediyl) diacrylate	LC 50 (Leuciscus idus, 96 h): 2.2 - 4.64 mg/l (Static) experimental result
4-(1,1-Dimethylethyl)cyclohexyl acrylate	No data available.
ethoxylated trimethylolpropane triacrylate	LC 50 (Danio rerio, 96 h): 1.95 mg/l (Static) experimental result
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	LC 50 (Danio rerio, 96 h): 9 mg/l (semi-static) experimental result
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	LC 50 (Danio rerio, 96 h): 0.46 mg/l (semi-static) experimental result
2,6-bis(1,1-dimethylethyl)-4-methylphenol	LC 50 (Danio rerio, 96 h): > 100 mg/l (Static) experimental result
Cetrimonium chloride	No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

2-(2-Vinyloxyethoxy) ethyl acrylate	EC 50 (48 h): 55 mg/l (Static) experimental result NOAEL (48 h): 25 mg/l (Static) experimental result
Oxybis(methyl-2,1-ethanediyl) diacrylate	EC 50 (48 h): 22.3 mg/l (Static) experimental result
4-(1,1-Dimethylethyl)cyclohexyl acrylate	No data available.
ethoxylated trimethylolpropane triacrylate	EC 50 (48 h): 70.7 mg/l (Static) experimental result
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-	EC 50 (24 h): 15.3 mg/l (semi-static) experimental result

morpholinopropan-1-one 2-benzyl-2- dimethylamino-4- morpholinobutyrophenon e	EC 50 (24 h): > 0.8 mg/l experimental result
2,6-bis(1,1- dimethylethyl)-4-methyl- phenol	EC 50 (48 h): 0.48 mg/l (Static) experimental result
Cetrimonium chloride	No data available.

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

2-(2-Vinyloxyethoxy) ethyl acrylate	No data available.
Oxybis(methyl-2,1- ethanediyl) diacrylate	No data available.
4-(1,1- Dimethylethyl)cyclohexyl acrylate ethoxylated	LC 50 (Brachidanio rerio (zebra fish), 96 h): 1 - 10 mg/l No data available.
trimethylolpropane triacrylate	No data available.
2- [[[(Butylamino)carbonyl]ox y]ethyl acrylate	No data available.
2-methyl-1-(4- methylthiophenyl)-2- morpholinopropan-1-one	No data available.
2-benzyl-2- dimethylamino-4- morpholinobutyrophenon e	No data available.
2,6-bis(1,1- dimethylethyl)-4-methyl- phenol	No data available.
Cetrimonium chloride	No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

2-(2-Vinyloxyethoxy) ethyl acrylate	No data available.
Oxybis(methyl-2,1- ethanediyl) diacrylate	No data available.
4-(1,1- Dimethylethyl)cyclohexyl	EC 50 (Water Flea, 48 h): 0.772 mg/l

acrylate	
ethoxylated	No data available.
trimethylolpropane	
triacrylate	
2-	No data available.
[[[(Butylamino)carbonyl]oxyethyl acrylate	
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	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)

2-(2-Vinyloxyethoxy)ethyl acrylate	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
4-(1,1-Dimethylethyl)cyclohexyl acrylate	EC50 (Alga, 96 h): 0.091 mg/l
ethoxylated	No data available.
trimethylolpropane	
triacrylate	
2-	No data available.
[[[(Butylamino)carbonyl]oxyethyl acrylate	
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	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)

2-(2-Vinyloxyethoxy) ethyl acrylate	OECD 301D Readily biodegradable 82 %
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
4-(1,1-Dimethylethyl)cyclohexyl acrylate	No data available.
ethoxylated trimethylolpropane triacrylate	No data available.
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	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)

2-(2-Vinyloxyethoxy) ethyl acrylate	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
4-(1,1-Dimethylethyl)cyclohexyl acrylate	No data available.
ethoxylated trimethylolpropane triacrylate	No data available.
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.

2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	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)

2-(2-Vinyloxyethoxy) ethyl acrylate	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
4-(1,1-Dimethylethyl)cyclohexyl acrylate	No data available.
ethoxylated trimethylolpropane triacrylate	No data available.
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	No data available.
2,6-bis(1,1-dimethylethyl)-4-methylphenol	No data available.
Cetrimonium chloride	No data available.

12.4 Mobility in Soil: No data available.

Known or predicted distribution to environmental compartments

2-(2-Vinyloxyethoxy) ethyl acrylate	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
4-(1,1-Dimethylethyl)cyclohexyl acrylate	No data available.
ethoxylated trimethylolpropane triacrylate	No data available.

2- [[[(Butylamino)carbonyl]oxy] ethyl acrylate	No data available.
2-methyl-1-(4- methylthiophenyl)-2- morpholinopropan-1-one	No data available.
2-benzyl-2-dimethylamino- 4- morpholinobutyrophenone	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

2-(2-Vinyloxyethoxy) ethyl acrylate	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
4-(1,1-Dimethylethyl)cyclohexyl acrylate	No data available.
ethoxylated trimethylolpropane triacrylate	No data available.
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-methyl-1-(4-methylthiophenyl)- 2-morpholinopropan-1-one	No data available.
2-benzyl-2-dimethylamino-4- morpholinobutyrophenone	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: 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.

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.(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: 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
4-(1,1-Dimethylethyl)cyclohexyl acrylate	84100-23-2	10 - 20%
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	1.0 - 10%
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	119313-12-1	1.0 - 10%

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
4-(1,1-Dimethylethyl)cyclohexyl acrylate	84100-23-2	10 - 20%

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	1.0 - 10%
Phenol, 4-methoxy-	150-76-5	0 - <0.1%
octamethylcyclotetrasiloxane	556-67-2	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.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
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.
H360FD	May damage fertility. May damage the unborn child.
H361d	Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
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
 Eye Dam. 1, H318
 Skin Sens. 1, H317
 Repr. 1B, H360FD
 STOT SE 3, H335
 Aquatic Chronic 2, H411

Issue Date: 18.10.2016

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.