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 YELLOW INK **Product No.:** 000001016024

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 3	H412: Harmful to aquatic life with long lasting effects.

2.2 Label Elements

Contains: Oxybis(methyl-2,1-ethanediyl) diacrylate
Isodecyl acrylate
Acrylate ester resin
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.
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.
P340: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards

Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria Not fulfilling vPvB (very persistent/very bioaccummulative) 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.	
Isodecyl acrylate	10 - <20%	1330-61-6	215-542-5	01-2119964031-47-XXXX	No data available.	
Acrylate ester resin	10 - <20%	26570-48-9		No data available.	No data available.	
ethoxylated trimethylolpropane triacrylate	10 - <20%	28961-43-5		01-2119489900-30-XXXX	No data available.	
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	2.5 - <5%	71868-10-5	400-600-6	01-2119472306-39	No data available.	
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	1 - <5%	68511-62-6	270-944-8	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	1	#

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
# # This substance has workplace exposure limit(s).
PBT: persistent, bioaccumulative and toxic substance.
vPvB: very persistent and very bioaccumulative substance.

Classification

Chemical name	Classification	Notes
Oxybis(methyl-2,1-	Skin Sens.: 1: H317 Eye Dam.: 1: H318 Skin Irrit.: 2: H315	

ethanediyl) diacrylate		
Isodecyl acrylate	Eye Irrit.: 2: H319 Skin Irrit.: 2: H315 Aquatic Chronic: 2: H411 STOT SE: 3: H335	Note A
Acrylate ester resin	Eye Dam.: 1: H318	
ethoxylated trimethylolpropane triacrylate	Eye Irrit.: 2: H319 Skin Sens.: 1: H317	
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.
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	No data available.	
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	Aquatic Acute: 1: H400 Aquatic Chronic: 1: H410	No data available.

CLP: Regulation No. 1272/2008.

SECTION 4: First aid measures

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: Rinse immediately with plenty of water.

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.

Ingestion: Rinse mouth thoroughly.

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

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: See section 11 of the SDS for additional information on health hazards.

Treatment: Get medical attention if symptoms occur.

SECTION 5: Firefighting measures

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

5.1 Extinguishing media

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

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

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

5.3 Advice for firefighters

Special fire fighting procedures: No data available.

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: 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
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes - as Ni	TWA	0.1 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)

2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	TWA	10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)

Biological Limit Values

None.

DNEL-Values

Critical component	type	Route of Exposure		Remarks
Oxybis(methyl-2,1-ethanediyl) diacrylate	General population	Dermal	1.66 mg/kg	Repeated dose toxicity
	General population	Oral	2.08 mg/kg	Repeated dose toxicity
	Workers	Inhalation	24.48 mg/m3	Repeated dose toxicity
	Workers	Dermal	2.77 mg/kg	Repeated dose toxicity
	General population	Inhalation	7.24 mg/m3	Repeated dose toxicity
Isodecyl acrylate	Workers	Dermal	370 µg/cm2	Skin sensitization
	Workers	Inhalation	37.5 mg/m3	Irritating to respiratory system.
ethoxylated trimethylolpropane triacrylate	General population	Oral	1.4 mg/kg	Repeated dose toxicity
	Workers	Dermal	0.8 mg/kg	Repeated dose toxicity
	General population	Inhalation	4.9 mg/m3	Repeated dose toxicity
	General population	Dermal	0.5 mg/kg	Repeated dose toxicity
	Workers	Inhalation	16.2 mg/m3	Repeated dose toxicity
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	General population	Dermal	0.1 mg/kg	Repeated dose toxicity
	Workers	Dermal	20 mg/kg	Acute toxicity
	General population	Inhalation	0.16 mg/m3	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
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	General population	Dermal	0.25 mg/kg	Repeated dose toxicity
	Workers	Dermal	8.3 mg/kg	
	General population	Inhalation	1.74 mg/m3	
	Workers	Dermal	0.3 mg/kg	
	Workers	Dermal	0.5 mg/kg	Repeated dose toxicity
	General population	Dermal	0.17 mg/kg	
	General population	Oral	0.17 mg/kg	
	General population	Inhalation	2.5 mg/m3	
	Workers	Dermal	166 mg/kg	
	General population	Inhalation	0.86 mg/m3	Repeated dose toxicity
	General population	Dermal	100 mg/kg	
	Workers	Inhalation	3.5 mg/m3	Repeated dose toxicity
	General population	Oral	100 mg/kg	
	Workers	Inhalation	5.8 mg/m3	
	General population	Dermal	5 mg/kg	
Phenol, 4-methoxy-	Workers	Inhalation	10 mg/m3	Acute toxicity
	Workers	Inhalation	3 mg/m3	Repeated dose toxicity

PNEC-Values

Critical component	Environmental compartment		Remarks
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	
Isodecyl acrylate	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	
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	
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	Aquatic (marine water)	0.0041 mg/l	
	Aquatic (freshwater)	0.1 mg/l	
	soil	1.04 mg/kg	
	Predator	8.33 mg/kg	
	Aquatic (marine water)	0.01 mg/l	
	Predator	16.7 mg/kg	
	Aquatic (intermit. releases)	1 mg/l	
	Marine sediments	0.731 mg/kg	
	Sewage treatment plant	10 mg/l	
	Sewage treatment plant	100 mg/l	
	freshwater sediment	0.731 mg/kg	
	Sewage treatment plant	0.17 mg/l	
	freshwater sediment	1.29 mg/kg	
	soil	0.35 mg/kg	
	Aquatic (freshwater)	0.0041 mg/l	

Phenol, 4-methoxy-	freshwater sediment	0.125 mg/kg	
	Aquatic (freshwater)	0.0136 mg/l	
	Aquatic (marine water)	0.00136 mg/l	
	Sewage treatment plant	10 mg/l	
	soil	0.017 mg/kg	
	Marine sediments	0.0125 mg/kg	

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. 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: Yellow

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.
Relative density:	1.06
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.

SECTION 10: Stability and reactivity

10.1 Reactivity: Material is stable under normal conditions.

10.2 Chemical Stability: No data available.

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.

Ingestion: May be ingested by accident. Ingestion may cause irritation and malaise.

Skin Contact: May cause an allergic skin reaction.

Eye contact: Eye contact is possible and should be avoided.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product:	ATEmix: 49,600 mg/kg

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate	LD 50 (Rat): 4,626 mg/kg
Isodecyl acrylate	LD 50 (Rat): 4,435 mg/kg
Acrylate ester resin	No data available.
ethoxylated trimethylolpropane triacrylate	LD 50 (Rat): > 2,000 mg/kg
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	LD 50 (Rat): 1,984 mg/kg
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	No data available.
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	LD 50 (Rat): > 6,000 mg/kg

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
Isodecyl acrylate	LD 50 (Rabbit): 7,522 mg/kg
Acrylate ester resin	No data available.
ethoxylated trimethylolpropane triacrylate	LD 50 (Rabbit): > 13,200 mg/kg
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	LD 50: > 2,000 mg/kg
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	No data available.
2,6-bis(1,1-dimethylethyl)-4-	LD 50 (Rat): > 2,000 mg/kg

methyl-phenol

Inhalation

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

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Isodecyl acrylate	LC 50 (Rat, 8 h): > 1.19 mg/l
Acrylate ester resin	No data available.
ethoxylated trimethylolpropane triacrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	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	NOAEL (Rat(Female, Male), Oral, 28 - 52 d): 250 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
Acrylate ester resin	No data available.
ethoxylated 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
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
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	No data available.
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	NOAEL (Rat(Male), Oral, 1.25 - 22.75 Months): 25 mg/kg

Skin Corrosion/Irritation:

Product: Causes skin irritation.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate	in vivo (Rabbit): Category 2
Isodecyl acrylate	No data available.
Acrylate ester resin	No data available.
ethoxylated trimethylolpropane triacrylate	in vivo (Rabbit): Not irritating
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	No data available.
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	in vivo (Rabbit): Not irritating

Serious Eye Damage/Eye Irritation:

Product: Causes serious eye damage.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate	in vivo (Rabbit, 24 - 72 hrs): Category 1 OECD GHS
Isodecyl acrylate	Mildly Irritating
Acrylate ester resin	No data available.
ethoxylated trimethylolpropane triacrylate	in vivo (Rabbit, 24 - 72 hrs): Irritating
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	in vivo (24 - 72 hrs): Not an irritant EU
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	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: May cause an allergic skin reaction.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Isodecyl acrylate	No data available.
Acrylate ester resin	No data available.
ethoxylated trimethylolpropane triacrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	No data available.
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	No data available.

Germ Cell Mutagenicity

In vitro

Product:	No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Isodecyl acrylate	No data available.
Acrylate ester resin	No data available.
ethoxylated trimethylolpropane triacrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	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	No data available.
Isodecyl acrylate	No data available.
Acrylate ester resin	No data available.

ethoxylated trimethylolpropane triacrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	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	No data available.
Isodecyl acrylate	No data available.
Acrylate ester resin	No data available.
ethoxylated trimethylolpropane triacrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	No data available.
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	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.
Isodecyl acrylate	No data available.
Acrylate ester resin	No data available.
ethoxylated trimethylolpropane triacrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.

Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	No data available.
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	No data available.

Specific Target Organ Toxicity - Single Exposure

Product:	No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Isodecyl acrylate	No data available.
Acrylate ester resin	No data available.
ethoxylated trimethylolpropane triacrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	No data available.
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	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.
Isodecyl acrylate	No data available.
Acrylate ester resin	No data available.
ethoxylated trimethylolpropane triacrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	No data available.
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	No data available.

Aspiration Hazard

Product:	No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Isodecyl acrylate	No data available.
Acrylate ester resin	No data available.
ethoxylated trimethylolpropane triacrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	No data available.
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	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	LC 50 (Leuciscus idus, 96 h): 2.2 - 4.64 mg/l (Static) experimental result
Isodecyl acrylate	No data available.
Acrylate ester resin	No data available.
ethoxylated trimethylolpropane triacrylate	LC 50 (Danio rerio, 96 h): 1.95 mg/l (Static) experimental result
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	LC 50 (Danio rerio, 96 h): 9 mg/l (semi-static) experimental result
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione	No data available.

complexes	
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	LC 50 (Danio rerio, 96 h): > 100 mg/l (Static) experimental result

Aquatic Invertebrates

Product:	No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate	EC 50 (48 h): 22.3 mg/l (Static) experimental result
Isodecyl acrylate	No data available.
Acrylate ester resin	No data available.
ethoxylated trimethylolpropane triacrylate	EC 50 (48 h): 70.7 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
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	No data available.
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	EC 50 (48 h): 0.48 mg/l (Static) experimental result

Chronic Toxicity

Fish

Product:	No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Isodecyl acrylate	No data available.
Acrylate ester resin	No data available.
ethoxylated trimethylolpropane triacrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	No data available.
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	No data available.

Aquatic Invertebrates

Product:	No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Isodecyl acrylate	No data available.
Acrylate ester resin	No data available.
ethoxylated trimethylolpropane triacrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	No data available.
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	No data available.

Toxicity to Aquatic Plants

Product:	No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Isodecyl acrylate	No data available.
Acrylate ester resin	No data available.
ethoxylated trimethylolpropane triacrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	No data available.
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	No data available.

12.2 Persistence and Degradability

Biodegradation

Product:	No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Isodecyl acrylate	No data available.
Acrylate ester resin	No data available.
ethoxylated trimethylolpropane triacrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	No data available.
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	No data available.

BOD/COD Ratio

Product	No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Isodecyl acrylate	No data available.
Acrylate ester resin	No data available.
ethoxylated trimethylolpropane triacrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	No data available.
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	No data available.

12.3 Bioaccumulative potential

Product:	No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Isodecyl acrylate	No data available.
Acrylate ester resin	No data available.
ethoxylated trimethylolpropane triacrylate	No data available.

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	No data available.
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	No data available.

12.4 Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Isodecyl acrylate	No data available.
Acrylate ester resin	No data available.
ethoxylated trimethylolpropane triacrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	No data available.
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	No data available.

12.5 Results of PBT and vPvB assessment: Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria Not fulfilling vPvB (very persistent/very bioaccummulative) criteria

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Isodecyl acrylate	No data available.
Acrylate ester resin	No data available.
ethoxylated trimethylolpropane triacrylate	No data available.
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	No data available.
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	No data available.
2,6-bis(1,1-dimethylethyl)-4-methyl-phenol	No data available.

12.6 Other adverse effects: Harmful 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:	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

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:

Chemical name	CAS-No.	Concentration
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	68511-62-6	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

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
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	68511-62-6	1.0 - 10%

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%
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.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.
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.
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 3, H412

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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.