

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 100 BLACK INK

Product No.: 000001016215

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 2	H361f: Suspected of damaging fertility.

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
 Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-



Signal Words: Danger

Hazard Statement(s): H315: Causes skin irritation.
 H317: May cause an allergic skin reaction.
 H318: Causes serious eye damage.
 H361f: Suspected of damaging fertility.
 H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention: P201: Obtain special instructions before use.
 P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
 P273: Avoid release to the environment.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310: Immediately call a POISON CENTER/doctor/...

Storage: P405: Store locked up.

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)-	50 - <100%	57472-68-1	260-754-3	01-2119484629-	No data	

ethanediyl) diacrylate				21-XXXX	available.	
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	3 - <5%	75980-60-8	278-355-8	01-2119972295-29-XXXX	No data available.	
carbon black (carbon)	1 - <5%	1333-86-4	215-609-9	01-2119384822-32-XXXX	No data available.	#
Propoxylated Glycerol Triacrylate	0.1 - <1%	52408-84-1		01-2119487948-12-XXXX	No data available.	
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
Oxybis(methyl-2,1-ethanediyl) diacrylate	Skin Sens.: 1: H317 Eye Dam.: 1: H318 Skin Irrit.: 2: H315	
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	Repr.: 2: H361f Aquatic Chronic: 2: H411	No data available.
carbon black (carbon)	No data available.	
Propoxylated Glycerol Triacrylate	Eye Irrit.: 2: H319 Skin Sens.: 1: H317	
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
carbon black (carbon)	STEL	7 mg/m ³	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
	TWA	3.5 mg/m ³	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/m ³	Repeated dose toxicity
	Workers	Dermal	2.77 mg/kg	Repeated dose toxicity
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	General population	Inhalation	7.24 mg/m ³	Repeated dose toxicity
	Workers	Dermal	1 mg/kg	Repeated dose toxicity
carbon black (carbon)	Workers	Inhalation	3.5 mg/m ³	Repeated dose toxicity
	Workers	Inhalation	1 mg/m ³	Repeated dose toxicity
	Workers	Inhalation	3.5 mg/m ³	Irritating to respiratory system.
	Workers	Inhalation	2 mg/m ³	Repeated dose toxicity
	Workers	Inhalation	2 mg/m ³	Irritating to respiratory system.
	General population	Inhalation	1.75 mg/m ³	Irritating to respiratory system.

	General population	Inhalation	0.06 mg/m ³	Repeated dose toxicity
blue organic pigment	Workers	Inhalation	4 mg/m ³	Repeated dose toxicity
	General population	Dermal	225 mg/kg	Repeated dose toxicity
	General population	Oral	45 mg/kg	Repeated dose toxicity
	Workers	Dermal	450 mg/kg	Repeated dose toxicity
Propoxylated Glycerol Triacrylate	Workers	Dermal	1.92 mg/kg	Repeated dose toxicity
	General population	Oral	1.39 mg/kg	Repeated dose toxicity
	General population	Dermal	1.15 mg/kg	Repeated dose toxicity
	General population	Inhalation	4.87 mg/m ³	Repeated dose toxicity
	Workers	Inhalation	16.22 mg/m ³	Repeated dose toxicity
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
	Workers	Inhalation	3.32 mg/m ³	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	
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	soil	0.0557 mg/kg	
	Fresh water	0.00353 mg/l	
	Marine sediments	0.029 mg/kg	
	Marine water	0.00353 mg/l	
	Aquatic (intermit. releases)	0.0353 mg/l	
	Intermittent release	0.0353 mg/l	
	Aquatic (marine water)	0.000353 mg/l	
	Sediment-fresh water	0.29 mg/kg	
	freshwater sediment	0.29 mg/kg	
	Soil	0.0557 mg/kg	
	Aquatic (freshwater)	0.00353 mg/l	
	carbon black (carbon)	Aquatic (freshwater)	50 mg/l
Aquatic (marine water)		5 mg/l	
Aquatic (freshwater)		5 mg/l	
blue organic pigment	soil	1 mg/kg	
	freshwater sediment	10 mg/kg	
	Marine sediments	1 mg/kg	
Propoxylated Glycerol Triacrylate	Marine sediments	0.001697 mg/kg	
	Aquatic (intermit. releases)	0.0574 mg/l	

	Aquatic (freshwater)	0.00574 mg/l	
	Sewage treatment plant	10 mg/l	
	soil	0.00111 mg/kg	
	Predator	5.6 mg/kg	
	freshwater sediment	0.01697 mg/kg	
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	

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:	1.08
Solubility(ies)	
Solubility in Water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Viscosity:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.

9.2 Other information

VOC Content: EC Directive 2004/42: 775.58 g/l ~77.56 % (calculated)

SECTION 10: Stability and reactivity

10.1 Reactivity:	No data available.
10.2 Chemical Stability:	Material is stable under normal conditions.
10.3 Possibility of hazardous reactions:	Material is stable under normal conditions.

- 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:** Not classified for acute toxicity based on available data.

Specified substance(s)

- Oxybis(methyl-2,1-ethanediyl) diacrylate LD 50 (Rat): 4,626 mg/kg
- Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-carbon black (carbon) LD 50 (Rat): > 5,000 mg/kg
- LD 50 (Rat): > 8,000 mg/kg
- Propoxylated Glycerol Triacrylate LD 50 (Rat): > 2,000 mg/kg
- Cetrimonium chloride LD 50 (Rat): 861 mg/kg

Dermal

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

Specified substance(s)

- Oxybis(methyl-2,1-ethanediyl) diacrylate LD 50 (Rabbit): > 2,000 mg/kg
- Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-carbon black (carbon) LD 50 (Rat): > 2,000 mg/kg
- No data available.

Propoxylated Glycerol Triacrylate LD 50 (Rabbit): > 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)

Oxybis(methyl-2,1-ethanediyl) diacrylate No data available.
 Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-carbon black (carbon) LC 0 (Rat, 4 h): 4.6 mg/m³

Propoxylated Glycerol Triacrylate No data available.
 Cetrimonium chloride 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
 LOAEL (Rat(Female, Male), Oral, 28 d): 250 mg/kg
 Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-carbon black (carbon) LOAEL (Rat(Female, Male), Oral, 64 - 91 d): 300 mg/kg
 NOAEL (Rat(Female, Male), Oral, 64 - 91 d): 100 mg/kg
 NOAEL (Rat(Female, Male), Oral, 28 d): 50 mg/kg
 NOAEL (Rat(Female), Oral, 52 - 104 Weeks): 52 mg/kg
 LOAEL : 2.5 mg/m³
 NOAEL (Rat(Female, Male), Dermal, 28 d): 1 mg/kg
 Propoxylated Glycerol Triacrylate NOAEL (Rat(Female, Male), Oral, 28 - 52 d): 250 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)

Oxybis(methyl-2,1-ethanediyl) diacrylate in vivo (Rabbit): Category 2
 Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)- No data available.

carbon black (carbon)	Possibly Irritating
Propoxylated Glycerol Triacrylate	in vivo (Rabbit): Not irritating
Cetrimonium chloride	in vivo (Rabbit): Not irritating
	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
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	No data available.
carbon black (carbon)	in vivo (Rabbit): Not classified as an Irritant EU
Propoxylated Glycerol Triacrylate	in vivo (Rabbit): Irritating
Cetrimonium chloride	Irritating

Respiratory or Skin

Sensitization:

Product: May cause an allergic skin reaction.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	No data available.
carbon black (carbon)	No data available.
Propoxylated Glycerol Triacrylate	No data available.
Cetrimonium chloride	No data available.

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	No data available.
carbon black (carbon)	No data available.
Propoxylated Glycerol Triacrylate	No data available.
Cetrimonium chloride	No data available.

In vivo**Product:** No data available.**Specified substance(s)**

Oxybis(methyl-2,1-ethanediyl) diacrylate No data available.
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-carbon black (carbon) No data available.
Propoxylated Glycerol Triacrylate No data available.
Cetrimonium chloride No data available.

Carcinogenicity**Product:** No data available.**Specified substance(s)**

Oxybis(methyl-2,1-ethanediyl) diacrylate No data available.
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-carbon black (carbon) No data available.
Propoxylated Glycerol Triacrylate No data available.
Cetrimonium chloride No data available.

Reproductive toxicity**Product:** Suspected of damaging fertility or the unborn child.**Specified substance(s)**

Oxybis(methyl-2,1-ethanediyl) diacrylate No data available.
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-carbon black (carbon) No data available.
Propoxylated Glycerol Triacrylate No data available.
Cetrimonium chloride No data available.

Specific Target Organ Toxicity - Single Exposure**Product:** No data available.**Specified substance(s)**

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

Phosphine oxide, diphenyl(2,4,6- trimethylbenzoyl)- carbon black (carbon)	No data available.
Propoxylated Glycerol	No data available.
Triacrylate	
Cetrimonium chloride	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.
Phosphine oxide, diphenyl(2,4,6- trimethylbenzoyl)- carbon black (carbon)	No data available.
Propoxylated Glycerol	No data available.
Triacrylate	
Cetrimonium chloride	No data available.

Aspiration Hazard

Product: No data available.

Specified substance(s)

Oxybis(methyl-2,1- ethanediyl) diacrylate	No data available.
Phosphine oxide, diphenyl(2,4,6- trimethylbenzoyl)- carbon black (carbon)	No data available.
Propoxylated Glycerol	No data available.
Triacrylate	
Cetrimonium chloride	No data available.

SECTION 12: Ecological information

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
Phosphine oxide, diphenyl(2,4,6-	No data available.

trimethylbenzoyl)- carbon black (carbon)	LC 50 (Danio rerio, 24 h): > 58,000 mg/l
Propoxylated Glycerol Triacrylate	LC 50 (Danio rerio, 96 h): 5.74 mg/l (Static) experimental result
Cetrimonium chloride	No data available.

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
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)- carbon black (carbon)	No data available.
Propoxylated Glycerol	EC 50 (24 h): > 5,600 mg/l (Static) experimental result
Triacrylate	EC 50 (48 h): 91.4 mg/l (Static) experimental result
Cetrimonium chloride	No data available.

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)- carbon black (carbon)	No data available.
Propoxylated Glycerol	NOAEL (Salmo sp., 30 d): 17 mg/l QSAR
Triacrylate	No data available.
Cetrimonium chloride	No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)- carbon black (carbon)	No data available.
Propoxylated Glycerol	No data available.
Triacrylate	No data available.
Cetrimonium chloride	No data available.

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	No data available.
carbon black (carbon)	No data available.
Propoxylated Glycerol	No data available.
Triacrylate	
Cetrimonium chloride	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.
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	No data available.
carbon black (carbon)	No data available.
Propoxylated Glycerol	No data available.
Triacrylate	
Cetrimonium chloride	No data available.

BOD/COD Ratio

Product No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	No data available.
carbon black (carbon)	No data available.
Propoxylated Glycerol	No data available.
Triacrylate	
Cetrimonium chloride	No data available.

12.3 Bioaccumulative potential

Product: No data available.

Specified substance(s)

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
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Phosphine oxide, diphenyl(2,4,6- trimethylbenzoyl)- carbon black (carbon)	No data available.
Propoxylated Glycerol	No data available.
Triacrylate	
Cetrimonium chloride	No data available.

12.4 Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Oxybis(methyl-2,1- ethanediyl) diacrylate	No data available.
Phosphine oxide, diphenyl(2,4,6- trimethylbenzoyl)- carbon black (carbon)	No data available.
Propoxylated Glycerol	No data available.
Triacrylate	
Cetrimonium chloride	No data available.

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

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Phosphine oxide, diphenyl(2,4,6- trimethylbenzoyl)- carbon black (carbon)	No data available.
Propoxylated Glycerol Triacrylate	No data available.
Cetrimonium chloride	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:
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: none

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

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

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

Chemical name	CAS-No.	Concentration
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-	75980-60-8	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.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Training information: No data available.

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

Skin Irrit. 2, H315

Eye Dam. 1, H318
Skin Sens. 1, H317
Repr. 2, H361f
Aquatic Chronic 3, H412

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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.