



according to UK REACH Regulation

ORALITE® 5019i yellow (020)

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

1.1. Product identifier

ORALITE® 5019i yellow (020)

Further trade names

ORALITE® 5019i UV Digital Printing Ink

yellow (020) - 750 ml

UFI: GP66-W0DS-C00J-65WK

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Colour (UV Digital Printing Ink). Reserved for industrial and professional use.

Uses advised against

Do not use for private purposes (household).

1.3. Details of the supplier of the safety data sheet

Company name: ORAFOL Europe GmbH

Germany

Street: Orafolstraße 1

Place: D-16515 Oranienburg

Telephone: + 49 3301 864 0 Telefax: + 49 3301 864 100

e-mail: msds@orafol.de
Contact person: EHSQ Department
Internet: www.orafol.com

1.4. Emergency telephone

National Poison Information Service: In case of a medical emergency following exposure to a chemical, the public should call NHS Direct in England or Wales

0845 46 47 or NHS 24 in Scotland 08454 24 24 24 (UK only).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Skin Irrit. 2; H315

number:

Eye Irrit. 2; H319 Skin Sens. 1; H317 Carc. 2; H351 Repr. 2; H361fd STOT RE 1; H372 Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

Organs affected: liver, Respiratory tract

2.2. Label elements

GB CLP Regulation



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Hazard components for labelling

2-Phenoxyethyl acrylate

(5-ethyl-1,3-dioxan-5-yl)methyl prop-2-enoate

N-Vinylcaprolactam

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

Isobornyl acrylate (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)

2-Propenoic acid, 2-hydroxyethyl ester, polymer with(chloromethyl)oxirane, 1,3-isobenzofurandione, 4,4'-

(1-methylethylidene)bis[phenol] and 2-oxepanone

Ethoxylated phenyl acrylate

phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate

Signal word: Danger

Pictograms:







Hazard statements

H315	Causes skin irritation.

H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H351 Suspected of causing cancer.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. H372 Causes damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P201 Obtain special instructions before use.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.

Special labelling of certain mixtures

Contains 10 - < 15 % of components with unknown hazards to the aquatic environment.

10 - < 15 % of the mixture consists of ingredient(s) of unknown acute toxicity.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures



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Hazardous components

CAS No	Chemical name	Quantity
	EC No Index No REACH No	
	Classification (GB CLP Regulation)	
48145-04-6	2-Phenoxyethyl acrylate	25 - <50%
	256-360-6 01-2119980532-35	
	Repr. 2, Skin Sens. 1A, Aquatic Chronic 2; H361d H317 H411	
66492-51-1	(5-ethyl-1,3-dioxan-5-yl)methyl prop-2-enoate	10 - <25%
	266-380-7 01-2119976303-36	
	Skin Irrit. 2, Skin Sens. 1B, Aquatic Chronic 2; H315 H317 H411	
2235-00-9	N-Vinylcaprolactam	10 - <20%
	218-787-6 01-2119977109-27	
	Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2, Skin Sens. 1B, STOT RE 1; H312 H302 H319 H317 H372	
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	5 - <10%
	278-355-8 015-203-00-X 01-2119972295-29	
	Repr. 2, Skin Sens. 1B, Aquatic Chronic 2; H361f H317 H411	
5888-33-5	Isobornyl acrylate (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)	2,5 - 5%
	227-561-6 01-2119957862-25	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B, STOT SE 3, Aquatic Chronic 2; H315 H319 H317 H335 H411	
153128-88-2	2-Propenoic acid, 2-hydroxyethyl ester, polymer with(chloromethyl)oxirane, 1,3-isobenzofurandione, 4,4'-(1-methylethylidene)bis[phenol] and 2-oxepanone	1 - <5%
	604-886-5	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317	
56641-05-5	Ethoxylated phenyl acrylate	2,5 - <5%
	500-133-9 01-2120752382-57	
	Skin Sens. 1, Aquatic Chronic 2; H317 H411	
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	1 - <5%
	423-340-5 015-189-00-5 01-2119489401-38	
	Skin Sens. 1A, Aquatic Chronic 4; H317 H413	
122-99-6	2-phenoxyethanol	1 < 3%
	204-589-7 603-098-00-9 01-2119488943-21	
	Acute Tox. 4, Eye Dam. 1, STOT SE 3; H302 H318 H335	
15625-89-5	2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate	1 - <2,5%
	239-701-3 607-111-00-9 01-2119489896-11	
	Carc. 2, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H351 H315 H319 H317 H400 H410	
105-60-2	epsylon-caprolactam	0,01 - <1%
	203-313-2 613-069-00-2 01-2119457029-36	
	Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H332 H302 H315 H319 H335	
5495-84-1	2-Isopropyl-9H-thioxanthen-9-one	0,25 < 1%
	226-827-9 01-2120769513-49	
	Repr. 2, Aquatic Acute 1, Aquatic Chronic 1; H361f H400 H410	
556-67-2	octamethylcyclotetrasiloxane	< 0,1%
	209-136-7 014-018-00-1 01-2119529238-36	
	Flam. Liq. 3, Repr. 2, Aquatic Chronic 1; H226 H361f H410	
		1



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Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc.	Limits, M-factors and ATE	
48145-04-6	256-360-6	2-Phenoxyethyl acrylate	25 - <50% %
	oral: LD50 = 5	000 mg/kg	
66492-51-1	266-380-7	(5-ethyl-1,3-dioxan-5-yl)methyl prop-2-enoate	10 - <25% %
	dermal: LD50	= > 2000 mg/kg; oral: LD50 = > 2000 mg/kg	
2235-00-9	218-787-6	N-Vinylcaprolactam	10 - <20% %
	dermal: LD50	= 1700 mg/kg; oral: LD50 = 1114 mg/kg	
75980-60-8	278-355-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	5 - <10% %
	dermal: LD50	= > 2000 mg/kg; oral: LD50 = > 5000 mg/kg	
5888-33-5	227-561-6	Isobornyl acrylate (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)	2,5 - 5% %
	dermal: LD50	= > 3000 mg/kg; oral: LD50 = 5750 mg/kg	
153128-88-2	604-886-5	2-Propenoic acid, 2-hydroxyethyl ester, polymer with(chloromethyl)oxirane, 1,3-isobenzofurandione, 4,4'-(1-methylethylidene)bis[phenol] and 2-oxepanone	1 - <5% %
	inhalation: Dat	ta lacking (gases); dermal: Data lacking; oral: Data lacking	
162881-26-7	423-340-5	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	1 - <5% %
	dermal: LD50	= > 2000 mg/kg; oral: LD50 = > 2000 mg/kg	
122-99-6	204-589-7	2-phenoxyethanol	1 < 3% %
	dermal: LD50	= > 2214 mg/kg; oral: ATE 1394 mg/kg	
15625-89-5	239-701-3	2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate	1 - <2,5% %
		= > 2000 mg/kg; oral: LD50 = > 5000 mg/kg Aquatic Acute 1; H400: M=1 c 1; H410: M=1	
105-60-2	203-313-2	epsylon-caprolactam	0,01 - <1% %
		E = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = oral: LD50 = 1475 mg/kg	
5495-84-1	226-827-9	2-Isopropyl-9H-thioxanthen-9-one	0,25 < 1% %
	dermal: LD50	= > 2000 mg/kg; oral: LD50 = > 2000 mg/kg	
556-67-2	209-136-7	octamethylcyclotetrasiloxane	< 0,1% %
	I	50 = 12,17 mg/l (vapours); dermal: Data lacking; oral: LD50 = > 4800 mg/kg c 1; H410: M=10	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down.

After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary. In case of skin reactions, consult a physician.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

4.2. Most important symptoms and effects, both acute and delayed

No information available.





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4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Remove casualty to fresh air and keep warm and at rest. Where appropriate artificial ventilation.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Carbon dioxide (CO2), Extinguishing powder, Foam.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Non-flammable. In case of fire may be liberated: Gases/vapours, harmful

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Immediately remove any contaminated clothing, shoes or stockings.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

For non-emergency personnel

Use personal protection equipment.

For emergency responders

Use personal protection equipment. The danger areas must be delimited and identified using relevant warning and safety signs. First aider: Pay attention to self-protection!

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Collect spillage. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe





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gas/fumes/vapour/spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin. Avoid contact with eyes. Use personal protection equipment.

Swiss Maternity Protection Ordinance (SR 822.111.52): Pregnant women and nursing mothers are only allowed to get in contact with or be exposed to this preparation in the course of their work when it is established on the basis of a risk assessment by a specialist, that in context with the activities and the protection measures applied, exposure does no harm to mother and child.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

The type of personal protection equipment has to be chosen based on the concentration and amount of the dangerous substance at the workplace.

Further information on handling

Use extractor hood (laboratory). When using do not eat or drink.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations.

Hints on joint storage

Do not store together with: Organic peroxides and self-reactive substances, Explosives.

7.3. Specific end use(s)

Colour. Reserved for industrial and professional use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
105-60-2	1,6-Hexanolactam, dust and vapour	-	10		TWA (8 h)	WEL
		-	20		STEL (15 min)	WEL



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DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
48145-04-6	2-Phenoxyethyl acrylate			•
Worker DNEL	long-term	inhalation	systemic	12 mg/m³
Worker DNEL	long-term	inhalation	local	77 mg/m³
Worker DNEL	Worker DNEL, long-term		systemic	3,5 mg/kg bw/day
66492-51-1	(5-ethyl-1,3-dioxan-5-yl)methyl prop-2-enoate			•
,				
2235-00-9	N-Vinylcaprolactam			
Worker DNEL	long-term	inhalation	systemic	4,9 mg/m³
Worker DNEL	long-term	inhalation	local	0,17 mg/m³
Worker DNEL	long-term	dermal	systemic	0,7 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	systemic	1,04 mg/m³
Consumer DN	EL, long-term	inhalation	local	0,04 mg/m³
Consumer DN	EL, long-term	dermal	systemic	0,42 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	0,4 mg/kg bw/day
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide			
Consumer DN	EL, long-term	inhalation	systemic	0,145 mg/m³
Consumer DN	EL, long-term	dermal	systemic	0,0833 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	0,0833 mg/kg bw/day
Worker DNEL	, long-term	inhalation	systemic	0,822 mg/m³
Worker DNEL	long-term	dermal	systemic	0,233 mg/kg bw/day
5888-33-5	Isobornyl acrylate (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2	-yl acrylate)		
Worker DNEL	, long-term	inhalation	systemic	4,9 mg/m³
Consumer DN	EL, long-term	inhalation	systemic	1,45 mg/m³
Worker DNEL	long-term	dermal	systemic	1,39 mg/kg bw/day
Consumer DN	EL, long-term	dermal	systemic	0,83 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	0,83 mg/kg bw/day
56641-05-5	Ethoxylated phenyl acrylate			
Worker DNEL	, long-term	inhalation	systemic	12 mg/m³
Worker DNEL	, long-term	inhalation	local	97 mg/m³
Worker DNEL, long-term		dermal	systemic	3,5 mg/kg bw/day
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide			
Worker DNEL, long-term		dermal	systemic	3 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	systemic	5,2 mg/m³
Consumer DN	EL, long-term	dermal	systemic	1,5 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	1,5 mg/kg bw/day
Worker DNEL	long-term	inhalation	systemic	21 mg/m³



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122-99-6	2-phenoxyethanol			
Worker DNEL,	long-term	inhalation	systemic	5,7 mg/m³
Worker DNEL,	long-term	inhalation	local	5,7 mg/m³
Worker DNEL, long-term		dermal	systemic	20,83 mg/kg bw/day
Consumer DNE	EL, long-term	inhalation	systemic	2,41 mg/m³
Consumer DNE	EL, long-term	inhalation	local	2,41 mg/m³
Consumer DNE	EL, long-term	dermal	systemic	10,42 mg/kg bw/day
Consumer DNE	EL, long-term	oral	systemic	9,23 mg/kg bw/day
Consumer DNE	EL, acute	oral	systemic	9,23 mg/kg bw/day
15625-89-5	2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolprop	ane triacrylate		
Consumer DNE	EL, long-term	oral	systemic	0,5 mg/kg bw/day
Worker DNEL,	long-term	inhalation	systemic	3,5 mg/m³
Worker DNEL,	long-term	dermal	systemic	83 mg/kg bw/day
Consumer DNE	EL, long-term	inhalation	systemic	0,87 mg/m³
Consumer DNE	EL, long-term	dermal	systemic	42 mg/kg bw/day
105-60-2	epsylon-caprolactam			
Worker DNEL,	long-term	inhalation	local	5 mg/m³
Worker DNEL,	acute	inhalation	local	10 mg/m³
Consumer DNE	EL, long-term	inhalation	local	2,5 mg/m³
Consumer DNE	EL, acute	inhalation	local	5 mg/m³
Consumer DNE	EL, long-term	oral	systemic	8,55 mg/kg bw/day
5495-84-1	2-Isopropyl-9H-thioxanthen-9-one			
Worker DNEL,	long-term	inhalation	systemic	0,73 mg/m³
Worker DNEL,	long-term	dermal	systemic	0,42 mg/kg bw/day
556-67-2	octamethylcyclotetrasiloxane			
Worker DNEL,	long-term	inhalation	systemic	73 mg/m³
Worker DNEL,	acute	inhalation	systemic	73 mg/m³
Worker DNEL, long-term		inhalation	local	73 mg/m³
Worker DNEL, acute		inhalation	local	73 mg/m³
Consumer DNEL, long-term		inhalation	systemic	13 mg/m³
Consumer DNEL, acute		inhalation	systemic	13 mg/m³
Consumer DNE	EL, long-term	inhalation	local	13 mg/m³
Consumer DNE	EL, acute	inhalation	local	13 mg/m³
Consumer DNE	EL, long-term	oral	systemic	3,7 mg/kg bw/day
Consumer DNE	EL, acute	oral	systemic	3,7 mg/kg bw/day



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PNEC values

CAS No	Substance	
Environmenta	l compartment	Value
48145-04-6	2-Phenoxyethyl acrylate	
Freshwater		0,002 mg/l
Freshwater (ir	ntermittent releases)	0,012 mg/l
Marine water		0,0002 mg/l
Freshwater se	ediment	0,02 mg/kg
Marine sedim	ent	0,002 mg/kg
Micro-organis	ms in sewage treatment plants (STP)	1,77 mg/l
Soil		0,006 mg/kg
66492-51-1	(5-ethyl-1,3-dioxan-5-yl)methyl prop-2-enoate	
Freshwater		0,004 mg/l
Freshwater (in	ntermittent releases)	0,04 mg/l
Marine water		0 mg/l
Freshwater se	ediment	0,019 mg/kg
Marine sedim	ent	0,002 mg/kg
Micro-organis	ms in sewage treatment plants (STP)	30 mg/l
Soil		0,001 mg/kg
2235-00-9	N-Vinylcaprolactam	<u> </u>
Freshwater		0,1 mg/l
Freshwater (ir	1 mg/l	
Marine water		0,01 mg/l
Freshwater se	ediment	0,829 mg/kg
Marine sedim	ent	0,083 mg/kg
Micro-organis	ms in sewage treatment plants (STP)	262 mg/l
Soil		0,107 mg/kg
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	
Freshwater		0,0014 mg/l
Freshwater (ir	ntermittent releases)	0,014 mg/l
Marine water		0,00014 mg/l
Freshwater se	ediment	0,115 mg/kg
Marine sedim	ent	0,0115 mg/kg
Soil		0,0222 mg/kg
5888-33-5	Isobornyl acrylate (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)	·
Freshwater		0,001 mg/l
Freshwater (ir	ntermittent releases)	0,007 mg/l
Marine water		0 mg/l
Freshwater se	ediment	0,145 mg/kg
Marine sedim	ent	0,015 mg/kg
Micro-organis	ms in sewage treatment plants (STP)	2 mg/l
		0,029 mg/kg



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Freshwater	0,002 mg/l			
Freshwater (intermittent releases)	0,012 mg/l			
Marine water	0,0002 mg/l			
Freshwater sediment	0,053 mg/kg			
Marine sediment	0,005 mg/kg			
Micro-organisms in sewage treatment plants (STP)	1,77 mg/l			
Soil	0,009 mg/kg			
162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide				
Freshwater	0,001 mg/l			
Freshwater (intermittent releases)	0,001 mg/l			
Marine water	0,001 mg/l			
Freshwater sediment	0,712 mg/kg			
Marine sediment	0,712 mg/kg			
Micro-organisms in sewage treatment plants (STP)	1 mg/l			
Soil	20 mg/kg			
122-99-6 2-phenoxyethanol				
Freshwater	0,943 mg/l			
Freshwater (intermittent releases)	3,44 mg/l			
Marine water	0,094 mg/l			
Freshwater sediment	7,237 mg/kg			
Marine sediment	0,724 mg/kg			
Micro-organisms in sewage treatment plants (STP)	36 mg/l			
Soil	1,31 mg/kg			
15625-89-5 2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate				
Freshwater	0,00087 mg/l			
Freshwater (intermittent releases)	0,0087 mg/l			
Marine water	0,000087 mg/l			
Freshwater sediment	0,017 mg/kg			
Marine sediment	0,002 mg/kg			
Secondary poisoning	10 mg/kg			
Micro-organisms in sewage treatment plants (STP)	6,25 mg/l			
Soil	0,003 mg/kg			
105-60-2 epsylon-caprolactam				
Freshwater	2 mg/l			
Freshwater (intermittent releases)	1 mg/l			
Marine water	0,2 mg/l			
Freshwater sediment	18,7 mg/kg			
Marine sediment	1,87 mg/kg			
Micro-organisms in sewage treatment plants (STP)				
Soil	2,55 mg/kg			
5495-84-1 2-Isopropyl-9H-thioxanthen-9-one				
Freshwater	0 mg/l			
Freshwater (intermittent releases)	0 mg/l			



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Marine water		0 mg/l
Freshwater see	diment	0,013 mg/kg
Marine sedime	nt	0,001 mg/kg
Secondary poi	soning	0,333 mg/kg
Micro-organisn	ns in sewage treatment plants (STP)	100 mg/l
Soil	0,003 mg/kg	
556-67-2	octamethylcyclotetrasiloxane	
Freshwater		0,0015 mg/l
Marine water		0,00015 mg/l
Freshwater se	diment	3 mg/kg
Marine sediment		0,3 mg/kg
Secondary poisoning		41 mg/kg
Micro-organisn	10 mg/l	
Soil		0,54 mg/kg

Additional advice on limit values

2-phenoxyethanol MAK 1 ppm / 5.7 mg/m³

epsylon-caprolactam STEL 40 mg/m³ epsylon-caprolactam TWA 10 mg/m³

epsylon-caprolactam (E: inhalable fraction) MAK 5 mg/m³ epsylon-caprolactam (E: inhalable fraction) TWA 10 mg/m³ epsylon-caprolactam (E: inhalable fraction) STEL 40 mg/m³

8.2. Exposure controls





Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Minimum room ventilation rate for handling/application (air changes per hour): 10

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Butyl caoutchouc (butyl rubber) (EN 374)
Thickness of the glove material > 0.35 mm

Breakthrough time: 240 min

NBR (Nitrile rubber), Wearing time with occasional contact (splashes): Immediately remove any contaminated clothing, shoes or stockings.



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Skin protection

Use of protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Dangerous for the environment. Discharge into the environment must be avoided. Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid Colour: yellow

Melting point/freezing point: < 0 °C
Boiling point or initial boiling point and > 100 °C

boiling range:

Flammability: not determined Lower explosion limits: not determined Upper explosion limits: not determined > 100 °C Flash point: > 200 °C Auto-ignition temperature: Decomposition temperature: not determined pH-Value: not determined Viscosity / kinematic: 8.2 - 10.0 mm²/s

(at 45 °C)

Water solubility: easily soluble

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined Vapour pressure: 0,03 hPa

(at 20 °C)

Density (at 20 °C): 1,09 g/cm³
Relative vapour density: not determined

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive.

Oxidizing properties

The product is not: oxidising.

Other safety characteristics

Evaporation rate: not determined Solvent content: 24,67% Solid content: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions





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No known hazardous reactions.

10.4. Conditions to avoid

none

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

In case of fire may be liberated: Gases/vapours, harmful

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) 4231,6 mg/kg; ATE (dermal) 7229,5 mg/kg; ATE (inhalation vapour) 11495,24 mg/l



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CAS No	Chemical name									
	Exposure route	Dose		Species	Source	Method				
48145-04-6	2-Phenoxyethyl acrylate	;				<u> </u>				
	oral	LD50 mg/kg	5000	Rat	Study report (1981)	OECD Guideline 401				
66492-51-1	(5-ethyl-1,3-dioxan-5-yl)	methyl prop	-2-enoate			•				
	oral	LD50 mg/kg	> 2000	Rat	Study report (2011)	OECD Guideline 423				
	dermal	LD50 mg/kg	> 2000	Rat						
2235-00-9	N-Vinylcaprolactam									
	oral	LD50 mg/kg	1114	Rat	Study report	OECD Guideline 401				
	dermal	LD50 mg/kg	1700	Rabbit	Study report (1993)	OECD Guideline 402				
75980-60-8	diphenyl(2,4,6-trimethyl	benzoyl)pho	sphine oxide							
	oral	LD50 mg/kg	> 5000	Rat	Study report (1989)	OECD Guideline 401				
	dermal	LD50 mg/kg	> 2000	Rat	Study report (2011)	OECD Guideline 402				
5888-33-5	Isobornyl acrylate (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)									
	oral	LD50 mg/kg	5750	Rat	Study report (1974)	Standard acute method. Study conducted p				
	dermal	LD50 mg/kg	> 3000	Rabbit	Study report (1974)	other: pre-guideline				
153128-88-2	2-Propenoic acid, 2-hydroxyethyl ester, polymer with(chloromethyl)oxirane, 1,3-isobenzofurandione, 4,4'- (1-methylethylidene)bis[phenol] and 2-oxepanone									
	oral	Data lack	ing							
	dermal	Data lack	ing							
	inhalation	Data lack	ing							
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide									
	oral	LD50 mg/kg	> 2000	Rat	Study report (1996)	OECD Guideline 401				
	dermal	LD50 mg/kg	> 2000	Rat	Study report (1996)	OECD Guideline 402				
122-99-6	2-phenoxyethanol									
	oral	ATE 139	4 mg/kg							
	dermal	LD50 mg/kg	> 2214	Rabbit	J. Am. Coll. Toxicol. 9(2): 259-277 (198	other: Draft IRLG				
15625-89-5	2,2-bis(acryloyloxymeth		late; trimethyl	olpropane triacrylat						
	oral	LD50 mg/kg	> 5000	Rat	Study report (1972)	An acute oral toxicity study was perform				
	dermal	LD50 mg/kg	> 2000		Other company data (1981)					
105-60-2	epsylon-caprolactam									
	oral	LD50 mg/kg	1475	Rat	Study report (1987)	EU Method B.1				
	dermal	LD50 mg/kg	> 2000	Rat	Study report (1987)	other: 84/449/EWG				



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	inhalation vapour	ATE	11 mg/l			
	inhalation dust/mist	ATE	1,5 mg/l			
5495-84-1	2-Isopropyl-9H-thioxanth	en-9-one				
	oral	LD50 mg/kg	> 2000	Rat	Study report (1998)	OECD Guideline 401
	dermal	LD50 mg/kg	> 2000	Rat	Study report (1987)	OECD Guideline 402
556-67-2	octamethylcyclotetrasilox	ane				
	oral	LD50 mg/kg	> 4800	Rat	Study report (1979)	OECD Guideline 401
	dermal	Data lacki	ng			
	inhalation (4 h) vapour	LC50 mg/l	12,17	Rattus norvegicus f. dom.		

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (2-Phenoxyethyl acrylate; (5-ethyl-1,3-dioxan-5-yl)methyl prop-2-enoate;

N-Vinylcaprolactam; diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide; Isobornyl acrylate

(Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate); 2-Propenoic acid, 2-hydroxyethyl ester, polymer

with(chloromethyl)oxirane, 1,3-isobenzofurandione, 4,4'-(1-methylethylidene)bis[phenol] and 2-oxepanone;

Ethoxylated phenyl acrylate; phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide;

2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate)

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing cancer. (2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate)

Suspected of damaging fertility. Suspected of damaging the unborn child.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Causes damage to organs through prolonged or repeated exposure. (N-Vinylcaprolactam)

Organs affected: liver, Respiratory tract

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Further information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.



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CAS No	Chemical name									
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method			
48145-04-6	2-Phenoxyethyl acrylate									
	Acute algae toxicity	ErC50	4,4 mg/l	72 h	Desmodesmus subspicatus	Study report (1989)	ISO 8692			
	Acute crustacea toxicity	EC50 mg/l	1,21	48 h	Daphnia magna (Big water flea)		static			
	Acute bacteria toxicity	(EC50 mg/l)	177	3 h	Activated sludge	Study report (2013)	ISO 8192			
66492-51-1	(5-ethyl-1,3-dioxan-5-yl)m	ethyl prop-2	2-enoate							
	Acute fish toxicity	LC50	4 mg/l	96 h	Oncorhynchus mykiss	Study report (2010)	OECD Guideline 203			
	Acute algae toxicity	ErC50	34 mg/l	72 h	Desmodesmus subspicatus	Study report (2010)	OECD Guideline 201			
	Acute crustacea toxicity	EC50	20 mg/l	48 h	Daphnia magna	Study report (2010)	OECD Guideline 202			
2235-00-9	N-Vinylcaprolactam									
	Acute fish toxicity	LC50	318 mg/l	96 h	Danio rerio	Study report (1995)	OECD Guideline 203			
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Desmodesmus subspicatus	Study report (1993)	other: 79/831/EEC, Annex V, part C			
	Acute crustacea toxicity	EC50 mg/l	> 100	48 h	Daphnia magna	Study report (1993)	EU Method C.2			
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide									
	Acute fish toxicity	LC50	1,4 mg/l	96 h	Cyprinus carpio	REACh Registration Dossier	OECD Guideline 203			
	Acute algae toxicity	ErC50 mg/l	> 2,01	72 h	Pseudokirchneriella subcapitata	REACh Registration Dossier	OECD Guideline 201			
	Acute crustacea toxicity	EC50 mg/l	3,53	48 h	Daphnia magna	REACh Registration Dossier	OECD Guideline 202			
5888-33-5	Isobornyl acrylate (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)									
	Acute fish toxicity	LC50 mg/l	0,704		Danio rerio	REACh Registration Dossier	OECD Guideline 203			
	Acute algae toxicity	ErC50 mg/l	1,98	72 h	Pseudokirchneriella subcapitata	REACh Registration Dossier	OECD Guideline 201			
	Crustacea toxicity	NOEC mg/l	0,092	21 d	Daphnia magna	REACh Registration Dossier	OECD Guideline 211			
153128-88-2	2-Propenoic acid, 2-hydro (1-methylethylidene)bis[p	•		ith(chlore	omethyl)oxirane, 1,3-isob	enzofurandione, 4,	4'-			
	Aquatic toxicity	Data lacki								
66641-05-5	Ethoxylated phenyl acryla	te								
	Acute algae toxicity	ErC50	4,4 mg/l	72 h	Desmodesmus subspicatus	REACh Registration Dossier	ISO 8692			



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CVISION Gate	£. 30.03.2023		1 100	iuoi coc	ie. 2000005		rage i	
	Acute bacteria toxicity	(EC50 mg/l)	177	3 h	Activated sludge	REACh Registration Dossier	ISO 8192	
162881-26-7	phenyl bis(2,4,6-trimethyl	benzoyl)-pho	sphine oxide)				
	Acute fish toxicity	LC50 mg/l	> 0,09	96 h	Danio rerio	Study report (1997)	OECD Guideline 203	
	Acute algae toxicity	ErC50 mg/l	> 0,26	72 h	Desmodesmus subspicatus	Study report (1997)	OECD Guideline 201	
	Acute crustacea toxicity	EC50 mg/l	> 1,175	48 h	Daphnia magna	Study report (1997)	OECD Guideline 202	
	Crustacea toxicity	NOEC 0,0081 mg	>= /I	21 d	Daphnia magna	Study report (2003)	OECD Guideline 211	
	Acute bacteria toxicity	(EC50 mg/l)	> 100	3 h	activated sludge, domestic	Study report (1997)	OECD Guideline 209	
122-99-6	2-phenoxyethanol							
	Acute fish toxicity	LC50	344 mg/l	96 h	Pimephales promelas	Publication (1984)	other: ASTM	
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Desmodesmus subspicatus	Study report (2012)	OECD Guideline 201	
	Acute crustacea toxicity	EC50 mg/l	> 500	48 h	Daphnia magna	Study report (1989)	other: EU guideline 79/831 EEC, Annex V,	
	Fish toxicity	NOEC	23 mg/l	34 d	Pimephales promelas	Study report (2005)	OECD Guideline 210	
	Crustacea toxicity	NOEC mg/l	9,43	21 d	Daphnia magna	Study report (2006)	OECD Guideline 211	
	Acute bacteria toxicity	(EC50 mg/l)	> 1000		activated sludge of a predominantly domestic sewag	Study report (2002)	OECD Guideline 209	
15625-89-5	2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate							
	Acute fish toxicity	LC50 mg/l	0,87	96 h	Danio rerio	Study report (2016)	OECD Guideline 203	
	Acute algae toxicity	ErC50 mg/l	4,86	96 h	Desmodesmus subspicatus	Study report (1989)	EU Method C.3	
	Acute crustacea toxicity	EC50 mg/l	19,9	48 h	Daphnia magna	Study report (1991)	EU Method C.2	
105-60-2	epsylon-caprolactam							
	Acute fish toxicity	LC50 mg/l	> 100	96 h	Oryzias latipes	Study report (2002)	OECD Guideline 203	
	Acute algae toxicity	ErC50 mg/l	> 1000	72 h	Pseudokirchneriella subcapitata	Study report (2002)	OECD Guideline 201	
	Acute crustacea toxicity	EC50 mg/l	> 1000	48 h	Daphnia magna	Study report (2002)	OECD Guideline 202	
	Crustacea toxicity	NOEC	100 mg/l	21 d	Daphnia magna	Study report (2002)	OECD Guideline 211	
5495-84-1	2-Isopropyl-9H-thioxanthen-9-one							
	Acute fish toxicity	LC50 mg/l	0,125	96 h		REACh Registration Dossier	other: REACH Guidance on QSARs R.6	
	Acute algae toxicity	ErC50 mg/l	> 0,047	72 h	Pseudokirchneriella subcapitata	REACh Registration Dossier	OECD Guideline 201	
	Acute crustacea toxicity	EC50 mg/l	> 0,028	48 h	Daphnia magna	REACh Registration Dossier	OECD Guideline 202	



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FFC 67.2	Acute bacteria toxicity	(EC50 mg/l)	> 1000	3 h	activated sludge of a predominantly domestic sewag	REACh Registration Dossier	OECD Guideline 209
556-67-2	octamethylcyclotetrasiloxa Acute fish toxicity	LC50	> 0.022	96 h	Oncorhynchus mykiss	Env. Toxicol. &	EPA OTS
		mg/l	-,		,	Chemistry 14, 1639-1647	797.1400
	Acute algae toxicity	ErC50 mg/l	> 0,022	96 h	Pseudokirchneriella subcapitata	Study report (1990)	EPA OTS 797.1050
	Acute crustacea toxicity	EC50 mg/l	> 0,015	48 h	Daphnia magna	Env. Toxicol. & Chemistry 14, 1639-1647	EPA OTS 797.1300
	Fish toxicity	NOEC 0,0044 mg/	>= 	93 d	Oncorhynchus mykiss	Env. Toxicol. & Chemistry 14, 1639-1647	other: 40 CFR 797.1600
	Crustacea toxicity	NOEC mg/l	>= 0,015	21 d	Daphnia magna	Env. Toxicol. & Chemistry 14, 1639-1647	EPA OTS 797.1330
	Acute bacteria toxicity	(EC50 mg/l)	10000	3 h	Pseudomonas putida		

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name						
	Method	Value	d	Source			
	Evaluation	<u> </u>					
48145-04-6	-6 2-Phenoxyethyl acrylate						
		22,3%	28				
66492-51-1	(5-ethyl-1,3-dioxan-5-yl)methyl prop-2-enoate						
	QSAR	33,62%	28				
2235-00-9	00-9 N-Vinylcaprolactam						
		30-40%	28				
75980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide							
		0-10%	28				
5888-33-5	33-5 Isobornyl acrylate (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)						
	OECD 310	57%	28				
	Not readily biodegradable (according to OECD crite	eria)					
122-99-6	2-phenoxyethanol						
		21,33%	20				
15625-89-5	2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate						
		70-80%	28				
105-60-2	epsylon-caprolactam						
		5%	28				
556-67-2	octamethylcyclotetrasiloxane						
	OECD 310	3,7%	28				
	Not readily biodegradable (according to OECD crite	eria)					

12.3. Bioaccumulative potential

The product has not been tested.



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Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
48145-04-6	2-Phenoxyethyl acrylate	ca. 2,58
66492-51-1	(5-ethyl-1,3-dioxan-5-yl)methyl prop-2-enoate	1,9
2235-00-9	N-Vinylcaprolactam	1,2
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	3,1
5888-33-5	Isobornyl acrylate (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)	4,52
56641-05-5	Ethoxylated phenyl acrylate	2,672
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	5,8
122-99-6	2-phenoxyethanol	1,2
15625-89-5	2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate	4,35
105-60-2	epsylon-caprolactam	0,12
5495-84-1	2-Isopropyl-9H-thioxanthen-9-one	5,59
556-67-2	octamethylcyclotetrasiloxane	6,488

BCF

CAS No	Chemical name	BCF	Species	Source
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphi ne oxide	47 - 55	Cyprinus carpio	REACh Registration D
5888-33-5	Isobornyl acrylate (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2 -yl acrylate)	37	Danio rerio	Study report (2006)
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl) -phosphine oxide	< 5	Cyprinus carpio	Study report (1997)
122-99-6	2-phenoxyethanol	0,349	calculation	QSAR (2007)
15625-89-5	2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate	344		The BCF was calculat
105-60-2	epsylon-caprolactam	< 1		REACh Registration D
556-67-2	octamethylcyclotetrasiloxane	12400	Pimephales promelas	Study report (1991)

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The product has not been tested.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Contaminated packaging

Hazardous waste according to Directive 2008/98/EC (waste framework directive). Handle contaminated packages in the same way as the substance itself.



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SECTION 14: Transport information

Land transport (ADR/RID)

UN 3082 14.1. UN number or ID number:

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

> (2-Phenoxyethyl acrylate, (5-ethyl-1,3-dioxan-5-yl)methyl prop-2-enoate, Isobornyl acrylate (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate), ...)

14.3. Transport hazard class(es):

14.4. Packing group:

Hazard label:

9 Ш 9

Classification code:

Special Provisions: 274 335 375 601

Limited quantity: 5 L E1 Excepted quantity: Transport category: 3 Hazard No: 90 Tunnel restriction code:

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.3. Transport hazard class(es):

14.4. Packing group:

Hazard label:

9

Ш

(2-Phenoxyethyl acrylate, (5-ethyl-1,3-dioxan-5-yl)methyl prop-2-enoate,

Isobornyl acrylate (Exo-1,7,7-trimethylbicyclo[2,2,1]hept-2-yl acrylate), ...)

9

Classification code: M6

Special Provisions: 274 335 375 601

Limited quantity: 5 L Excepted quantity: E1

Marine transport (IMDG)

UN 3082 14.1. UN number or ID number:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. 14.2. UN proper shipping name:

(2-Phenoxyethyl acrylate, (5-ethyl-1,3-dioxan-5-yl)methyl prop-2-enoate, Isobornyl acrylate (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate), ...)

9

14.4. Packing group:

14.3. Transport hazard class(es):

Hazard label:

Ш



Special Provisions: 274, 335, 969

Limited quantity: 5 L Excepted quantity: E1 EmS: F-A, S-F

Air transport (ICAO-TI/IATA-DGR)



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UN 3082 14.1. UN number or ID number:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. 14.2. UN proper shipping name:

> (2-Phenoxyethyl acrylate, (5-ethyl-1,3-dioxan-5-yl)methyl prop-2-enoate, Isobornyl acrylate (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate), ...)

14.3. Transport hazard class(es):

14.4. Packing group: Ш 9

Hazard label:

Special Provisions: A97 A158 A197

Limited quantity Passenger: 30 ka G Passenger LQ: Y964 Excepted quantity: F1

IATA-packing instructions - Passenger: 964 IATA-max. quantity - Passenger: 450 L IATA-packing instructions - Cargo: 964 IATA-max. quantity - Cargo: 450 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: (2-Phenoxyethyl acrylate, (5-ethyl-1,3-dioxan-5-yl)methyl prop-2-enoate.

Isobornyl acrylate (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate), ...)

14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

Other applicable information

This product is not regulated as a dangerous good when transported in sizes of <=5 L or <=5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

Special Provisions: ADR + IMDG SV 375, IATA SP A197

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):

octamethylcyclotetrasiloxane

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 70

2010/75/EU (VOC): 0,09 % (0,981 g/l) 2004/42/EC (VOC): 63,05 % (687,245 g/l)

Information according to 2012/18/EU E2 Hazardous to the Aquatic Environment

(SEVESO III):

Additional information

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: octamethylcyclotetrasiloxane (CAS 556-67-2) < 0.1%





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Use restriction according to REACH annex XVII, no.: 70 octamethylcyclotetrasiloxane (CAS 556-67-2) < 0.1% Use restriction according to REACH annex XVII, no.: 27

Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes (Pigment Yellow 150) (CAS 68511-62-6) 1 -

10%

Regulation (EC) No 166/2006

Contains:

Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes (Pigment Yellow 150) (CAS 68511-62-6) 1 -

10%

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or

nursing mothers.

Water hazard class (D): 3 - highly hazardous to water

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

Additional information

Technische Anleitung zur Reinhaltung der Luft (TA-Luft)

Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes (Pigment Yellow 150) (CAS 68511-62-6) 1 -

epsylon-caprolactam (CAS 105-60-2) 0.1 - <1.0% acrylic acid, prop-2-enoic acid (CAS 79-10-7) 0 - <0.1% octamethylcyclotetrasiloxane (CAS 556-67-2) < 0.1%

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor



according to UK REACH Regulation

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PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

EmS: Emergency Schedules MFAG: Medical First Aid Guide

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Very High Concern

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
Carc. 2; H351	Calculation method
Repr. 2; H361fd	Calculation method
STOT RE 1; H372	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

	· · · · · · · · · · · · · · · · · · ·
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
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.
H413	May cause long lasting harmful effects to aquatic life.
rther Information	

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)