

**Safety Data Sheet**

according to UK REACH Regulation

ORALITE® 5019i yellow (020)

Revision date: 31.03.2022

Product code: 5019i_yellow

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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 namesORALITE® 5019i UV Digital Printing Ink
yellow (020)

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 number:

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
Eye Irrit. 2; H319
Skin Sens. 1; H317
Repr. 2; H361fd
STOT SE 3; H335
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
 phenyl bis(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
 2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate

Signal word: Danger

Pictograms:



Hazard statements

H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H317 May cause an allergic skin reaction.
 H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
 H335 May cause respiratory irritation.
 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.
 P270 Do not eat, drink or smoke when using this product.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P405 Store locked up.
 P501 Dispose of contents/container to an appropriate recycling or disposal facility.

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 - <5%
	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	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; 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			
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			

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

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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 = 5000 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: Data 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 - <5% %
		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% %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg M acute; H400: M=1 M chron.; H410: M=1	
105-60-2	203-313-2	epsilon-caprolactam	0,01 - <1% %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 1475 mg/kg	
556-67-2	209-136-7	octamethylcyclotetrasiloxane	< 0,1% %
		inhalation: LC50 = 12,17 mg/l (vapours); dermal: Data lacking; oral: LD50 = > 4800 mg/kg M chron.; 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 polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician. Medical treatment necessary.

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

Rinse mouth immediately and drink plenty of water. Induce vomiting when the affected person is not unconscious. Medical treatment necessary.

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

No information available.

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

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ventilation.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

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

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

Collect spillage. Do not allow to enter into surface water or drains. 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**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**

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

Swiss Maternity Protection Ordinance (SR 822.111.52): Pregnant women and nursing mothers are only

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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 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 exhaust 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/m ³	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	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, long-term	dermal	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 DNEL, long-term	inhalation	systemic	1,04 mg/m³	
Consumer DNEL, long-term	inhalation	local	0,04 mg/m³	
Consumer DNEL, long-term	dermal	systemic	0,42 mg/kg bw/day	
Consumer DNEL, long-term	oral	systemic	0,4 mg/kg bw/day	
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide			
Consumer DNEL, long-term	inhalation	systemic	0,145 mg/m³	
Consumer DNEL, long-term	dermal	systemic	0,0833 mg/kg bw/day	
Consumer DNEL, 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 DNEL, long-term	inhalation	systemic	1,45 mg/m³	
Worker DNEL, long-term	dermal	systemic	1,39 mg/kg bw/day	
Consumer DNEL, long-term	dermal	systemic	0,83 mg/kg bw/day	
Consumer DNEL, 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 DNEL, long-term	inhalation	systemic	5,2 mg/m³	
Consumer DNEL, long-term	dermal	systemic	1,5 mg/kg bw/day	
Consumer DNEL, 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/m ³
Worker DNEL, long-term	inhalation	local	5,7 mg/m ³
Worker DNEL, long-term	dermal	systemic	20,83 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	2,41 mg/m ³
Consumer DNEL, long-term	inhalation	local	2,41 mg/m ³
Consumer DNEL, long-term	dermal	systemic	10,42 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	9,23 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	9,23 mg/kg bw/day
15625-89-5	2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate		
Consumer DNEL, long-term	oral	systemic	0,5 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	3,5 mg/m ³
Worker DNEL, long-term	dermal	systemic	83 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	0,87 mg/m ³
Consumer DNEL, long-term	dermal	systemic	42 mg/kg bw/day
105-60-2	epsilon-caprolactam		
Worker DNEL, long-term	inhalation	local	5 mg/m ³
Worker DNEL, acute	inhalation	local	10 mg/m ³
Consumer DNEL, long-term	inhalation	local	2,5 mg/m ³
Consumer DNEL, acute	inhalation	local	5 mg/m ³
Consumer DNEL, long-term	oral	systemic	8,55 mg/kg bw/day
556-67-2	octamethylcyclotetrasiloxane		
Worker DNEL, long-term	inhalation	systemic	73 mg/m ³
Worker DNEL, acute	inhalation	systemic	73 mg/m ³
Worker DNEL, long-term	inhalation	local	73 mg/m ³
Worker DNEL, acute	inhalation	local	73 mg/m ³
Consumer DNEL, long-term	inhalation	systemic	13 mg/m ³
Consumer DNEL, acute	inhalation	systemic	13 mg/m ³
Consumer DNEL, long-term	inhalation	local	13 mg/m ³
Consumer DNEL, acute	inhalation	local	13 mg/m ³
Consumer DNEL, long-term	oral	systemic	3,7 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	3,7 mg/kg bw/day

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PNEC values

CAS No	Substance	
Environmental compartment		Value
48145-04-6	2-Phenoxyethyl acrylate	
Freshwater		0,002 mg/l
Freshwater (intermittent releases)		0,012 mg/l
Marine water		0,0002 mg/l
Freshwater sediment		0,02 mg/kg
Marine sediment		0,002 mg/kg
Micro-organisms 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 (intermittent releases)		0,04 mg/l
Marine water		0 mg/l
Freshwater sediment		0,019 mg/kg
Marine sediment		0,002 mg/kg
Micro-organisms in sewage treatment plants (STP)		30 mg/l
Soil		0,001 mg/kg
2235-00-9	N-Vinylcaprolactam	
Freshwater		0,1 mg/l
Freshwater (intermittent releases)		1 mg/l
Marine water		0,01 mg/l
Freshwater sediment		0,829 mg/kg
Marine sediment		0,083 mg/kg
Micro-organisms 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 (intermittent releases)		0,014 mg/l
Marine water		0,00014 mg/l
Freshwater sediment		0,115 mg/kg
Marine sediment		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 (intermittent releases)		0,007 mg/l
Marine water		0 mg/l
Freshwater sediment		0,145 mg/kg
Marine sediment		0,015 mg/kg
Micro-organisms in sewage treatment plants (STP)		2 mg/l
Soil		0,029 mg/kg
56641-05-5	Ethoxylated phenyl acrylate	

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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	epsilon-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)	1737 mg/l
Soil	2,55 mg/kg
556-67-2	octamethylcyclotetrasiloxane
Freshwater	0,0015 mg/l
Marine water	0,00015 mg/l

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Freshwater sediment	3 mg/kg
Marine sediment	0,3 mg/kg
Secondary poisoning	41 mg/kg
Micro-organisms in sewage treatment plants (STP)	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.

Skin protection

Wear suitable 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.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: yellow

Changes in the physical state

Melting point/freezing point: not determined
Boiling point or initial boiling point and boiling range: ca. 132 °C
Flash point: 104 °C

Flammability

Solid/liquid: not applicable
Gas: not applicable
Lower explosion limits: not determined
Upper explosion limits: not determined
Auto-ignition temperature: 236 °C

Self-ignition temperature

Solid: not applicable
Gas: not applicable
Decomposition temperature: not determined
pH-Value: not determined
Water solubility: not determined

Solubility in other solvents

not determined
Partition coefficient n-octanol/water: not determined
Vapour pressure: 0,03 hPa
(at 20 °C)
Vapour pressure: 0,03 hPa
(at 50 °C)
Density: 1,09 g/cm³
Relative vapour density: not determined

9.2. Other information

Information with regard to physical hazard classes

Oxidizing properties
Not oxidising.

Other safety characteristics

Solid content: not determined
Evaporation rate: not determined

Further Information

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.

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10.3. Possibility of hazardous reactions

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.

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
48145-04-6	2-Phenoxyethyl acrylate				
	oral	LD50 5000 mg/kg	Rat	Study report (1981)	OECD Guideline 401
66492-51-1	(5-ethyl-1,3-dioxan-5-yl)methyl prop-2-enoate				
	oral	LD50 > 2000 mg/kg	Rat	Study report (2011)	OECD Guideline 423
	dermal	LD50 > 2000 mg/kg	Rat		
2235-00-9	N-Vinylcaprolactam				
	oral	LD50 1114 mg/kg	Rat	Study report	OECD Guideline 401
	dermal	LD50 1700 mg/kg	Rabbit	Study report (1993)	OECD Guideline 402
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide				
	oral	LD50 > 5000 mg/kg	Rat	Study report (1989)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	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 5750 mg/kg	Rat	Study report (1974)	Standard acute method. Study conducted p
	dermal	LD50 > 3000 mg/kg	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 lacking			
	dermal	Data lacking			
	inhalation	Data lacking			
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide				
	oral	LD50 > 2000 mg/kg	Rat	Study report (1996)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rat	Study report (1996)	OECD Guideline 402
122-99-6	2-phenoxyethanol				
	oral	ATE 1394 mg/kg			
	dermal	LD50 > 2214 mg/kg	Rabbit	J. Am. Coll. Toxicol. 9(2): 259-277 (198	other: Draft IRLG
15625-89-5	2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate				
	oral	LD50 > 5000 mg/kg	Rat	Study report (1972)	An acute oral toxicity study was perform
	dermal	LD50 > 2000 mg/kg		Other company data (1981)	
105-60-2	epsilon-caprolactam				
	oral	LD50 1475 mg/kg	Rat	Study report (1987)	EU Method B.1
	dermal	LD50 > 2000 mg/kg	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			
556-67-2	octamethylcyclotetrasiloxane					
	oral	LD50	> 4800 mg/kg	Rat	Study report (1979)	OECD Guideline 401
	dermal	Data lacking				
	inhalation (4 h) vapour	LC50	12,17 mg/l	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 damaging fertility. Suspected of damaging the unborn child.

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

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

STOT-single exposure

May cause respiratory irritation.

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.

Additional information on tests

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 organisms, may cause long-term adverse effects in the aquatic environment.

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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 1,21 mg/l	48 h	Daphnia magna (Big water flea)		static
	Acute bacteria toxicity	(EC50 177 mg/l)	3 h	Activated sludge	Study report (2013)	ISO 8192
66492-51-1	(5-ethyl-1,3-dioxan-5-yl)methyl prop-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 > 100 mg/l	72 h	Desmodesmus subspicatus	Study report (1993)	other: 79/831/EEC, Annex V, part C
	Acute crustacea toxicity	EC50 > 100 mg/l	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 > 2,01 mg/l	72 h	Pseudokirchneriella subcapitata	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 3,53 mg/l	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 0,704 mg/l	96 h	Danio rerio	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 1,98 mg/l	72 h	Pseudokirchneriella subcapitata	REACH Registration Dossier	OECD Guideline 201
	Crustacea toxicity	NOEC 0,092 mg/l	21 d	Daphnia magna	REACH Registration Dossier	OECD Guideline 211
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					
	Aquatic toxicity	Data lacking				
56641-05-5	Ethoxylated phenyl acrylate					
	Acute algae toxicity	ErC50 4,4 mg/l	72 h	Desmodesmus subspicatus	REACH Registration Dossier	ISO 8692

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	Acute bacteria toxicity	(EC50 mg/l)	177	3 h	Activated sludge	REACH Registration Dossier	ISO 8192
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine 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/l	>=	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 mg/l	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 mg/l	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	0,5 h	activated sludge of a predominantly domestic sewage	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	epsilon-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 mg/l	100 mg/l	21 d	Daphnia magna	Study report (2002)	OECD Guideline 211
556-67-2	octamethylcyclotetrasiloxane						
	Acute fish toxicity	LC50 mg/l	> 0,022	96 h	Oncorhynchus mykiss	Env. Toxicol. & Chemistry 14, 1639-1647	EPA OTS 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

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	Fish toxicity	NOEC >= 0,0044 mg/l	93 d	Oncorhynchus mykiss	Env. Toxicol. & Chemistry 14, 1639-1647	other: 40 CFR 797.1600
	Crustacea toxicity	NOEC >= 0,015 mg/l	21 d	Daphnia magna	Env. Toxicol. & Chemistry 14, 1639-1647	EPA OTS 797.1330
	Acute bacteria toxicity	(EC50 10000 mg/l)	3 h	Pseudomonas putida		

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name	Value	d	Source
	Method			
	Evaluation			
48145-04-6	2-Phenoxyethyl acrylate	22,3%	28	
66492-51-1	(5-ethyl-1,3-dioxan-5-yl)methyl prop-2-enoate	33,62%	28	
2235-00-9	N-Vinylcaprolactam	30-40%	28	
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	0-10%	28	
5888-33-5	Isobornyl acrylate (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)	57%	28	
	OECD 310			
	Not readily biodegradable (according to OECD criteria)			
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	epsilon-caprolactam	5%	28	
556-67-2	octamethylcyclotetrasiloxane	3,7%	28	
	OECD 310			
	Not readily biodegradable (according to OECD criteria)			

12.3. Bioaccumulative potential

The product has not been tested.

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	epsilon-caprolactam	0,12
556-67-2	octamethylcyclotetrasiloxane	6,488

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BCF

CAS No	Chemical name	BCF	Species	Source
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine 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 calculated
105-60-2	epsilon-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 meet 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

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:

14.2. UN proper shipping name:

14.3. Transport hazard class(es):

14.4. Packing group:

Hazard label:

UN 3082

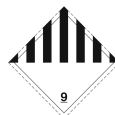
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(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), ...)

9

III

9



Classification code:

M6

Special Provisions:

274 335 375 601

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Limited quantity: 5 L
 Excepted quantity: E1
 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.
 (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): 9

14.4. Packing group: III

Hazard label: 9



Classification code: M6
 Special Provisions: 274 335 375 601
 Limited quantity: 5 L
 Excepted quantity: E1

Marine transport (IMDG)

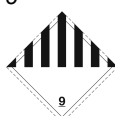
14.1. UN number or ID number: UN 3082

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): 9

14.4. Packing group: III

Hazard label: 9



Special Provisions: 274, 335, 969
 Limited quantity: 5 L
 Excepted quantity: E1
 EmS: F-A, S-F

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 3082

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): 9

14.4. Packing group: III

Hazard label: 9



Special Provisions: A97 A158 A197
 Limited quantity Passenger: 30 kg G
 Passenger LQ: Y964
 Excepted quantity: E1
 IATA-packing instructions - Passenger: 964
 IATA-max. quantity - Passenger: 450 L

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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): 65,05 % (709,045 g/l)

Information according to 2012/18/EU (SEVESO III): E2 Hazardous to the Aquatic Environment

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%

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

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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 - 10%

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

Changes

This data sheet contains changes from the previous version in section(s): 1,2,4,5,6,7,8,9,11,15.

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%

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
Repr. 2; H361fd	Calculation method
STOT SE 3; H335	
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.
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.

**Safety Data Sheet**

according to UK REACH Regulation

ORALITE® 5019i yellow (020)

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H413

May cause long lasting harmful effects to aquatic life.

Further 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.)