

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ORALITE® Thinner 5018

Revision date: 21.01.2021

Product code: 345900034

Page 1 of 13

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

ORALITE® Thinner 5018

Further trade namesORALITE ® 5018 Verdünner / ORALITE ® 5018 Thinner
ORALITE® Verdünner für Siebdruckfarbe ORALITE® 5018**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Diluent

Uses advised against

Do not use for private purposes (household). Restricted to professional users.

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	
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****Regulation (EC) No. 1272/2008**Hazard categories:
Flammable liquid: Flam. Liq. 3
Hazard Statements:
Flammable liquid and vapour.**2.2. Label elements****Regulation (EC) No. 1272/2008****Signal word:** Warning**Pictograms:****Hazard statements**

H226 Flammable liquid and vapour.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P243	Take action to prevent static discharges.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ORALITE® Thinner 5018

Revision date: 21.01.2021

Product code: 345900034

Page 2 of 13

P370+P378 P403+P235 P501	or shower. In case of fire: Use sand, earth, extinguishing powder or foam to extinguish. Store in a well-ventilated place. Keep cool. Dispose of contents/container to an appropriate recycling or disposal facility..
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2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Diluent. Contains: Dipropylene Glycol Methyl Ether Acetate (CAS 88917-22-0), 2-butoxyethyl acetate, butylglycol acetate, 2-methoxy-1-methylethyl acetate, xylene

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
112-07-2	2-butoxyethyl acetate, butylglycol acetate			10 - 20 %
	203-933-3	607-038-00-2	01-2119475112-47	
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4; H332 H312 H302			
108-65-6	2-methoxy-1-methylethyl acetate			10 - 20 %
	203-603-9	607-195-00-7	01-2119475791-29	
	Flam. Liq. 3, STOT SE 3; H226 H336			
1330-20-7	xylene			5 - 10 %
	215-535-7	601-022-00-9	01-2119488216-32	
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Chronic 3; H226 H332 H312 H315 H319 H335 H373 H304 H412			

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

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

After inhalation

Provide fresh air. Remove casualty to fresh air and keep warm and at rest.

After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. Take off immediately all contaminated clothing and wash it before reuse. After contact with skin, wash immediately with plenty of water and soap.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting.

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

No information available.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ORALITE® Thinner 5018

Revision date: 21.01.2021

Product code: 345900034

Page 3 of 13

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

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**Carbon dioxide (CO₂), Foam, Extinguishing powder.**Unsuitable extinguishing media**

Water. Full water jet

5.2. Special hazards arising from the substance or mixtureFlammable. Vapours can form explosive mixtures with air. Release of: Carbon dioxide (CO₂), Carbon monoxide**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Danger of explosion

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. 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**

No special measures are necessary.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

Vapours can form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

7.3. Specific end use(s)

Diluent

SECTION 8: Exposure controls/personal protection

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ORALITE® Thinner 5018

Revision date: 21.01.2021

Product code: 345900034

Page 4 of 13

8.1. Control parameters
Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
108-65-6	1-Methoxypropyl acetate	50	274		TWA (8 h)	WEL
		100	548		STEL (15 min)	WEL
112-07-2	2-Butoxyethyl acetate	20	133		TWA (8 h)	WEL
		50	332		STEL (15 min)	WEL
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid (creatinine)	650 mmol/mol	urine	Post shift

according to Regulation (EC) No 1907/2006

ORALITE® Thinner 5018

Revision date: 21.01.2021

Product code: 345900034

Page 5 of 13

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
112-07-2	2-butoxyethyl acetate, butylglycol acetate			
Worker DNEL, acute		inhalation	local	333 mg/m ³
Worker DNEL, acute		dermal	systemic	120 mg/kg bw/day
Worker DNEL, acute		inhalation	systemic	775 mg/m ³
Consumer DNEL, acute		dermal	systemic	72 mg/kg bw/day
Consumer DNEL, acute		inhalation	systemic	499 mg/m ³
Consumer DNEL, acute		oral	systemic	36 mg/kg bw/day
Consumer DNEL, acute		inhalation	local	200 mg/m ³
Consumer DNEL, long-term		dermal	systemic	102 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	80 mg/m ³
Consumer DNEL, long-term		oral	systemic	8,6 mg/kg bw/day
Worker DNEL, long-term		dermal	systemic	169 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	133 mg/m ³
108-65-6	2-methoxy-1-methylethyl acetate			
Worker DNEL, long-term		inhalation	systemic	275 mg/m ³
Worker DNEL, acute		inhalation	local	550 mg/m ³
Worker DNEL, long-term		dermal	systemic	796 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	33 mg/m ³
Consumer DNEL, long-term		inhalation	local	33 mg/m ³
Consumer DNEL, long-term		dermal	systemic	320 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	36 mg/kg bw/day
1330-20-7	xylene			
Worker DNEL, long-term		inhalation	systemic	221 mg/m ³
Worker DNEL, acute		inhalation	systemic	442 mg/m ³
Worker DNEL, long-term		inhalation	local	221 mg/m ³
Worker DNEL, acute		inhalation	local	442 mg/m ³
Worker DNEL, long-term		dermal	systemic	212 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	65,3 mg/m ³
Consumer DNEL, acute		inhalation	systemic	260 mg/m ³
Consumer DNEL, long-term		inhalation	local	65,3 mg/m ³
Consumer DNEL, acute		inhalation	local	260 mg/m ³
Consumer DNEL, long-term		dermal	systemic	125 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	12,5 mg/kg bw/day

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ORALITE® Thinner 5018

Revision date: 21.01.2021

Product code: 345900034

Page 6 of 13

PNEC values

CAS No	Substance	Value
Environmental compartment		
112-07-2	2-butoxyethyl acetate, butylglycol acetate	
Freshwater		0,304 mg/l
Freshwater (intermittent releases)		0,56 mg/l
Marine water		0,03 mg/l
Freshwater sediment		2,03 mg/kg
Marine sediment		0,203 mg/kg
Secondary poisoning		60 mg/kg
Micro-organisms in sewage treatment plants (STP)		90 mg/l
Soil		0,415 mg/kg
108-65-6	2-methoxy-1-methylethyl acetate	
Freshwater		0,635 mg/l
Freshwater (intermittent releases)		6,35 mg/l
Marine water		0,064 mg/l
Freshwater sediment		3,29 mg/kg
Marine sediment		0,329 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		0,29 mg/kg
1330-20-7	xylene	
Freshwater		0,327 mg/l
Freshwater (intermittent releases)		0,327 mg/l
Marine water		0,327 mg/l
Freshwater sediment		12,46 mg/kg
Marine sediment		12,46 mg/kg
Micro-organisms in sewage treatment plants (STP)		6,58 mg/l
Soil		2,31 mg/kg

8.2. Exposure controls

Protective and hygiene measures

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

Eye/face protection

Wear eye protection/face protection.

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.

Skin protection

Wear suitable protective clothing.

according to Regulation (EC) No 1907/2006

ORALITE® Thinner 5018

Revision date: 21.01.2021

Product code: 345900034

Page 7 of 13

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:	colourless	
pH-Value:		not determined

Changes in the physical state

Melting point:		not determined
Initial boiling point and boiling range:		ca. 139,1 °C
Flash point:		27 °C
Sustaining combustion:		Not sustaining combustion

Flammability

Solid:		not applicable
Gas:		not applicable

Explosive properties

Die Bildung explosionsgefährlicher Dampf-/Luftgemische ist möglich.

Lower explosion limits:		ca. 0,88 vol. %
Upper explosion limits:		ca. 8,54 vol. %
Ignition temperature:		333 °C

Auto-ignition temperature

Solid:		not applicable
Gas:		not applicable

Decomposition temperature:		not determined
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Oxidizing properties

Not oxidising.

Vapour pressure: (at 20 °C)		5,02 hPa
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Density:		0,96 g/cm ³
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Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.	
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Solubility in other solvents

not determined

Partition coefficient:		not determined
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Vapour density:		not determined
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Evaporation rate:		not determined
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9.2. Other information

Solid content:		0 %
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SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable.

10.2. Chemical stability

according to Regulation (EC) No 1907/2006

ORALITE® Thinner 5018

Revision date: 21.01.2021

Product code: 345900034

Page 8 of 13

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
112-07-2	2-butoxyethyl acetate, butylglycol acetate				
	oral	LD50 mg/kg	ca. 1880	Rat	Study report (1963) OECD Guideline 401
	dermal	LD50 mg/kg	ca. 1500	Rabbit	Toxicol Appl Pharmac 51, 117-27 (1979) Modification of the Draize 1959 method u
	inhalation vapour	ATE	11 mg/l		
	inhalation (4 h) aerosol	LC50	2,66 mg/l	Rat	
108-65-6	2-methoxy-1-methylethyl acetate				
	oral	LD50 mg/kg	6190	Rat	Study report (1985) OECD Guideline 401
	dermal	LD50 mg/kg	> 2000	Rat	Study report (1985) OECD Guideline 402
1330-20-7	xylene				
	oral	LD50 mg/kg	> 4000	Rat	Study report (1986) EU Method B.1
	dermal	LD50 mg/kg	12126	Rabbit	Publication (1962) Single dermal dose under occlusion follo
	inhalation (4 h) vapour	LC50	6247 mg/l	Rat	Study report (1986) EPA OPP 81-3
	inhalation aerosol	ATE	1,5 mg/l		

Irritation and corrosivity

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

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

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

ORALITE® Thinner 5018

Revision date: 21.01.2021

Product code: 345900034

Page 9 of 13

Aspiration hazard

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

SECTION 12: Ecological information
12.1. Toxicity

The product is not: Ecotoxic.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
112-07-2	2-butoxyethyl acetate, butylglycol acetate					
	Acute fish toxicity	LC50 > 20 - < 40 mg/l	96 h	Oncorhynchus mykiss	Toxicol Mech & meth 12, 255-63 (2002)	OECD Guideline 203
	Acute algae toxicity	ErC50 1570 mg/l	72 h	Pseudokirchneriella subcapitata	Toxicol Mech & meth 12, 255-63 (2002)	ISO 8692
	Acute crustacea toxicity	EC50 67,5 mg/l	48 h	Daphnia magna	Toxicol Mech & meth 12, 255-63 (2002)	ISO 6341
108-65-6	2-methoxy-1-methylethyl acetate					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	Oryzias latipes	Study report (1998)	OECD Guideline 203
	Acute algae toxicity	ErC50 > 1000 mg/l	72 h	Pseudokirchneriella subcapitata	Study report (1998)	OECD Guideline 201
	Acute crustacea toxicity	EC50 408 mg/l	48 h	Daphnia magna	Study report (1980)	OECD Guideline 202
	Fish toxicity	NOEC 47,5 mg/l	14 d	Oryzias latipes	Study report (1998)	OECD Guideline 204
	Crustacea toxicity	NOEC >= 100 mg/l	21 d	Daphnia magna	Study report (1998)	OECD Guideline 211
1330-20-7	xylene					
	Acute fish toxicity	LC50 8,4 mg/l	96 h	Oncorhynchus mykiss	Ecotoxicology and Environmental Safety.	OECD Guideline 203
	Acute algae toxicity	ErC50 4,9 mg/l	72 h	Pseudokirchneriella subcapitata	Ecotoxicology and Environmental Safety.	OECD Guideline 201
	Acute crustacea toxicity	EC50 > 3,4 mg/l	48 h	Ceriodaphnia dubia	Ecotoxicology and Environmental Safety 3	other: US EPA 600/4-91-003
	Fish toxicity	NOEC > 1,3 mg/l	56 d	Oncorhynchus mykiss	Appl. Sci. Branch, Eng. Res. Cent. Denve	Fish were exposed in artificial streams
	Crustacea toxicity	NOEC 1,17 mg/l	7 d	Ceriodaphnia dubia	Ecotoxicology and Environmental Safety 3	other: US EPA 600/4-91-003
	Acute bacteria toxicity	(> 175 mg/l)	0,5 h	Activated sludge	Research Journal WPCF 60(10) 1850-1856 (OECD Guideline 209

12.2. Persistence and degradability

The product has not been tested.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ORALITE® Thinner 5018

Revision date: 21.01.2021

Product code: 345900034

Page 10 of 13

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
112-07-2	2-butoxyethyl acetate, butylglycol acetate			
	OECD 301C/ ISO 9408/ EEC 92/69/V, C.4-F	88 %	28	
	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
112-07-2	2-butoxyethyl acetate, butylglycol acetate	1,51
108-65-6	2-methoxy-1-methylethyl acetate	1,2
1330-20-7	xylene	3,2

BCF

CAS No	Chemical name	BCF	Species	Source
1330-20-7	xylene	> 5,5 - < 12,2	Oncorhynchus mykiss	Appl. Sci. Branch, E

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The product has not been tested.

12.6. 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.

List of Wastes Code - residues/unused products

080312 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of printing inks; waste ink containing hazardous substances; hazardous waste

List of Wastes Code - used product

080312 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of printing inks; waste ink containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

080312 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of printing inks; waste ink containing hazardous substances; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ORALITE® Thinner 5018

Revision date: 21.01.2021

Product code: 345900034

Page 11 of 13

SECTION 14: Transport information
Land transport (ADR/RID)

14.1. UN number: UN 1263
14.2. UN proper shipping name: Paint related material
14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3



Classification code: F1
 Special Provisions: 163 367 650
 Limited quantity: 5 L
 Excepted quantity: E1
 Transport category: 3
 Hazard No: 30
 Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number: UN 1263
14.2. UN proper shipping name: Paint related material
14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3



Classification code: F1
 Special Provisions: 163 367 650
 Limited quantity: 5 L
 Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number: UN 1263
14.2. UN proper shipping name: Paint related material
14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3



Special Provisions: 163, 223, 367, 955
 Limited quantity: 5 L
 Excepted quantity: E1
 EmS: F-E, S-E

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1263
14.2. UN proper shipping name: Paint related material

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ORALITE® Thinner 5018

Revision date: 21.01.2021

Product code: 345900034

Page 12 of 13

14.3. Transport hazard class(es): 3

14.4. Packing group: III

Hazard label: 3



Special Provisions:	A3 A72 A192	
Limited quantity Passenger:	10 L	
Passenger LQ:	Y344	
Excepted quantity:	E1	
IATA-packing instructions - Passenger:		355
IATA-max. quantity - Passenger:		60 L
IATA-packing instructions - Cargo:		366
IATA-max. quantity - Cargo:		220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Warning: Combustible liquid.

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 regulatory information

2010/75/EU (VOC):	83,3 % (799,68 g/l)
2004/42/EC (VOC):	83,3 % (799,68 g/l)
Information according to 2012/18/EU (SEVESO III):	P5c FLAMMABLE LIQUIDS

National regulatory information

Employment restrictions:	Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
Water hazard class (D):	2 - obviously hazardous to water

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:none
 This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH: none

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ORALITE® Thinner 5018

Revision date: 21.01.2021

Product code: 345900034

Page 13 of 13

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 Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

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.)