

ORALITE® 5018

Print date: 16.09.2016

Product code: SDHF5018

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

ORALITE® 5018

Further trade names

5018-020, 5018-030, 5018-035, 5018-050, 5018-060, 5018-070, 5018-080

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

Colour

1.3. Details of the supplier of the safety data sheet

Company name:	ORAFOL Europe GmbH	
	Germany	
Street:	Orafolstraße 2	
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

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Flammable liquid and vapour.

Harmful to aquatic life with long lasting effects.

2.2. Label elements**Regulation (EC) No. 1272/2008****Signal word:** Warning**Pictograms:****Hazard statements**

H226 Flammable liquid and vapour.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P273 Avoid release to the environment.

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

P370+P378 In case of fire: Use Carbon dioxide (CO₂), alcohol resistant foam, Dry extinguishing powder, Dry sand to extinguish.

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Special labelling of certain mixtures

EUH208 Contains Naphthenic acids, nickel salts, Reaction mass of 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction.
 25 - < 30 % of the mixture consists of ingredient(s) of unknown acute toxicity (oral).
 25 - < 30 % of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).
 30 - < 35 % of the mixture consists of ingredient(s) of unknown acute toxicity (inhalation).
 Contains 25 - < 30 % of components with unknown hazards to the aquatic environment.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients
3.2. Mixtures
Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
108-65-6	2-methoxy-1-methylethyl acetate			5 - < 10 %
	203-603-9	607-195-00-7		
	Flam. Liq. 3; H226			
112-07-2	2-butoxyethyl acetate, butylglycol acetate			5 - < 10 %
	203-933-3	607-038-00-2		
	Acute Tox. 4, Acute Tox. 4; H332 H312			
1330-20-7	xylene			5 - < 10 %
	215-535-7	601-022-00-9		
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2; H226 H332 H312 H315			
25086-48-0	Acetic acid ethenyl ester, polymer with chloroethene and ethenol			5 - < 10 %
	607-539-6			
	STOT SE 3; H335			
61788-71-4	Naphthenic acids, nickel salts			< 1 %
	263-000-1			
	Skin Sens. 1; H317			
	Reaction mass of 1,2,2,6,6-pentamethyl-4-piperidyl sebacate			< 1 %
	915-687-0		01-2119491304-40	
	Skin Sens. 1, Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 1; H317 H400 H410			
556-67-2	octamethylcyclotetrasiloxane			< 1 %
	209-136-7		01-2119529238-36	
	Repr. 2, Aquatic Chronic 4; H361f H413			

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

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. Call a doctor if you feel unwell.

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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. If skin irritation occurs: Get medical advice/attention.

After contact with eyes

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

After ingestion

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.

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**

Water spray jet, Carbon dioxide (CO₂), Foam, Extinguishing powder.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Flammable. Vapours can form explosive mixtures with air. Hazardous combustion products: Nitrogen oxides (NO_x), 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.

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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.

Advice on storage compatibility

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

7.3. Specific end use(s)

Colour

SECTION 8: Exposure controls/personal protection
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	650 mmol/mol	urine	Post shift

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
Reaction mass of 1,2,2,6,6-pentamethyl-4-piperidyl sebacate				
Worker DNEL, acute		dermal	systemic	2,5 mg/kg bw/day
Worker DNEL, acute		inhalation	systemic	2,35 mg/m ³
Worker DNEL, long-term		inhalation	systemic	2,35 mg/m ³
Worker DNEL, long-term		dermal	systemic	2,5 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	1,25 mg/kg bw/day
Consumer DNEL, acute		inhalation	systemic	0,58 mg/m ³
Consumer DNEL, acute		oral	systemic	1,25 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	1,25 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,58 mg/m ³
Consumer DNEL, long-term		oral	systemic	1,25 mg/kg bw/day

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PNEC values

CAS No	Substance	
	Environmental compartment	Value
	Reaction mass of 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	
	Freshwater	0,0022 mg/l
	Marine water	0,0022 mg/l
	Freshwater sediment	1,05 mg/kg
	Marine sediment	0,11 mg/kg
	Micro-organisms in sewage treatment plants (STP)	1 mg/l
	Soil	0,21 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/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.

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:

pH-Value: not determined

Changes in the physical state

Melting point: not determined

Initial boiling point and boiling range: 140 °C

Flash point: 43 °C

Flammability

Solid: not applicable

Gas: not applicable

Lower explosion limits: not determined

Upper explosion limits: not determined

Test method

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Ignition temperature:	315 °C
Auto-ignition temperature	
Solid:	not applicable
Gas:	not applicable
Decomposition temperature:	not determined
Oxidizing properties	
Not oxidizing.	
Vapour pressure:	not determined
Density:	<1,0 g/cm³
Water solubility:	insoluble
Solubility in other solvents	
not determined	
Partition coefficient:	not determined
Vapour density:	not determined
Evaporation rate:	not determined

9.2. Other information

Solid content:	not determined
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SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable.

10.2. Chemical stability

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.

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CAS No	Chemical name			
	Exposure route	Dose	Species	Source
108-65-6	2-methoxy-1-methylethyl acetate			
	oral	LD50 8532 mg/kg	Rat	RTECS
	dermal	LD50 7500 mg/kg	Rabbit	
112-07-2	2-butoxyethyl acetate, butylglycol acetate			
	dermal	LD50 1500 mg/kg	Rabbit	RTECS
	inhalative vapour	ATE 11 mg/l		
	inhalative aerosol	ATE 1,5 mg/l		
1330-20-7	xylene			
	dermal	ATE 1100 mg/kg		
	inhalative vapour	ATE 11 mg/l		
	inhalative aerosol	ATE 1,5 mg/l		
25086-48-0	Acetic acid ethenyl ester, polymer with chloroethene and ethenol			
	oral	Data lacking		
	dermal	Data lacking		
	inhalative gas	Data lacking		
61788-71-4	Naphthenic acids, nickel salts			
	oral	Data lacking		
	dermal	Data lacking		
	inhalative gas	Data lacking		
	Reaction mass of 1,2,2,6,6-pentamethyl-4-piperidyl sebacate			
	oral	LD50 3230 mg/kg	Rattus norvegicus f. dom.	
	dermal	Data lacking		
	inhalative gas	Data lacking		
556-67-2	octamethylcyclotetrasiloxane			
	oral	LD50 > 5000 mg/kg	Rattus norvegicus f. dom.	
	dermal	Data lacking		
	inhalative (4 h) vapour	LC50 12,17 mg/l	Rattus norvegicus f. dom.	

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.

Aspiration hazard

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

SECTION 12: Ecological information
12.1. Toxicity

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

CAS No	Chemical name				
	Aquatic toxicity	Dose	[h] [d]	Species	Source
108-65-6	2-methoxy-1-methylethyl acetate				
	Acute fish toxicity	LC50 161 mg/l	96 h	Pimephales promelas	
	Acute crustacea toxicity	EC50 408 mg/l	48 h	Daphnia magna	
112-07-2	2-butoxyethyl acetate, butylglycol acetate				
	Acute algae toxicity	ErC50 > 500 mg/l	72 h	Desmodesmus subspicatus	IUCLID
	Acute crustacea toxicity	EC50 37 mg/l	48 h	Daphnia magna	
25086-48-0	Acetic acid ethenyl ester, polymer with chloroethene and ethenol				
	Acute fish toxicity	Data lacking			
61788-71-4	Naphthenic acids, nickel salts				
	Acute fish toxicity	Data lacking			
	Reaction mass of 1,2,2,6,6-pentamethyl-4-piperidyl sebacate				
	Acute fish toxicity	LC50 0,97 mg/l	96 h	Lepomis macrochirus	
	Acute algae toxicity	ErC50 1,68 mg/l	72 h	Desmodesmus subspicatus	
	Acute crustacea toxicity	EC50 20 mg/l	48 h	Daphnia magna	
	Acute bacteria toxicity	(> 100 mg/l)	3 h		
556-67-2	octamethylcyclotetrasiloxane				
	Acute fish toxicity	LC50 >200 mg/l	96 h	Leuciscus idus	
	Acute bacteria toxicity	(10000 mg/l)	3 h	Pseudomonas putida	

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
	Reaction mass of 1,2,2,6,6-pentamethyl-4-piperidyl sebacate			
		38%	28	
	Not readily biodegradable (according to OECD criteria) Moderately/partially biodegradable. 38 % DOC reduction.			

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
108-65-6	2-methoxy-1-methylethyl acetate	0,43
112-07-2	2-butoxyethyl acetate, butylglycol acetate	1,51

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.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

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

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

SECTION 14: Transport information

Land transport (ADR/RID)


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



Classification code: F1
 Special Provisions: 163 367 640E 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
14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3



Classification code: F1
 Special Provisions: 163 367 640E 650
 Limited quantity: 5 L
 Excepted quantity: E1

Marine transport (IMDG)

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

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

Air transport (ICAO)

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

14.6. 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): 17,33 % (173,3 g/l)
 2004/42/EC (VOC): 17,331 % (173,31 g/l)

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
 Water contaminating class (D): 2 - water contaminating
 Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

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.

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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%

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
EUH208	Contains Naphthenic acids, nickel salts, Reaction mass of 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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