

according to Regulation (EC) No 1907/2006

**Oracolor® Two-component paint black**

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

Oracolor® Two-component paint black

**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:	Lanitz Prena Folien Factory GmbH	
Street:	Am Ritterschlösschen 20	
Place:	04179 Leipzig	
Contact person:	Frau Ploss / Albrecht	Telephone: +49 - 341 - 44 23 05 - 34
e-mail:	labor@oracover.de	

**1.4. Emergency telephone number:** +49 (0)6132-84463 (24 h)**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Flammable liquid: Flam. Liq. 3

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Flammable liquid and vapour.

May cause drowsiness or dizziness.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**

n-butyl acetate

2-methoxy-1-methylethyl acetate

**Signal word:** Warning**Pictograms:****Hazard statements**

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

**Precautionary statements**

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

P233 Keep container tightly closed.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P312 Call a POISON CENTER/doctor if you feel unwell.

P403+P235 Store in a well-ventilated place. Keep cool.

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

P501 Dispose of waste according to applicable legislation.

**Special labelling of certain mixtures**

EUH066 Repeated exposure may cause skin dryness or cracking.

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**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	
	GHS Classification			
123-86-4	n-butyl acetate			55 - < 60 %
	204-658-1	607-025-00-1	01-2119485493-29	
	Flam. Liq. 3, STOT SE 3; H226 H336 EUH066			
108-65-6	2-methoxy-1-methylethyl acetate			5 - < 10 %
	203-603-9	607-195-00-7	01-2119475791-29	
	Flam. Liq. 3, STOT SE 3; H226 H336			
1330-20-7	xylene			1 - < 5 %
	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; H226 H332 H312 H315 H319 H335 H373 H304			

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

**SECTION 4: First aid measures****4.1. Description of first aid measures****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. In case of skin reactions, consult a physician.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

**After ingestion**

Rinse mouth immediately and drink plenty of water. When in doubt or if symptoms are observed, get medical advice.

**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 (CO<sub>2</sub>), Foam, Extinguishing powder.**5.2. Special hazards arising from the substance or mixture**

Flammable. Vapours can form explosive mixtures with air.

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**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. Suppress gases/vapours/mists with water spray jet. 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**

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

**6.2. Environmental precautions**

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

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

**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 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)**

Colour

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

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**Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
108-65-6	1-Methoxypropyl acetate	50	274		TWA (8 h)	WEL
		100	548		STEL (15 min)	WEL
123-86-4	Butyl acetate	150	724		TWA (8 h)	WEL
		200	966		STEL (15 min)	WEL
1333-86-4	Carbon black	-	3.5		TWA (8 h)	WEL
		-	7		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

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**DNEL/DMEL values**

CAS No	Substance		
DNEL type	Exposure route	Effect	Value
123-86-4	n-butyl acetate		
Worker DNEL, long-term	dermal	systemic	11 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	300 mg/m <sup>3</sup>
Consumer DNEL, long-term	oral	systemic	2 mg/kg bw/day
Consumer DNEL, long-term	dermal	systemic	6 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	35,7 mg/m <sup>3</sup>
Worker DNEL, acute	inhalation	local	600 mg/m <sup>3</sup>
Worker DNEL, acute	inhalation	systemic	600 mg/m <sup>3</sup>
Worker DNEL, long-term	inhalation	local	300 mg/m <sup>3</sup>
Consumer DNEL, long-term	inhalation	local	35,7 mg/m <sup>3</sup>
Consumer DNEL, acute	inhalation	local	300 mg/m <sup>3</sup>
Consumer DNEL, acute	inhalation	systemic	300 mg/m <sup>3</sup>
Worker DNEL, acute	dermal	systemic	11 mg/kg bw/day
Consumer DNEL, acute	dermal	systemic	6 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	2 mg/kg bw/day
108-65-6	2-methoxy-1-methylethyl acetate		
Worker DNEL, acute	inhalation	local	550 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	796 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	275 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	320 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	33 mg/m <sup>3</sup>
Consumer DNEL, long-term	oral	systemic	36 mg/kg bw/day
Consumer DNEL, long-term	inhalation	local	33 mg/m <sup>3</sup>
1330-20-7	xylene		
Worker DNEL, acute	inhalation	systemic	442 mg/m <sup>3</sup>
Worker DNEL, acute	inhalation	local	44 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	212 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	221 mg/m <sup>3</sup>
Consumer DNEL, acute	inhalation	systemic	260 mg/m <sup>3</sup>
Consumer DNEL, acute	inhalation	local	260 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	125 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	65,3 mg/m <sup>3</sup>
Worker DNEL, long-term	inhalation	local	221 mg/m <sup>3</sup>
Consumer DNEL, long-term	inhalation	local	65,3 mg/m <sup>3</sup>

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**PNEC values**

CAS No	Substance	Value
Environmental compartment		
123-86-4	n-butyl acetate	
Freshwater		0,18 mg/l
Freshwater (intermittent releases)		0,36 mg/l
Marine water		0,018 mg/l
Marine water (intermittent releases)		0,36 mg/l
Freshwater sediment		0,981 mg/kg
Marine sediment		0,0981 mg/kg
Micro-organisms in sewage treatment plants (STP)		35,6 mg/l
Soil		0,0903 mg/kg
108-65-6	2-methoxy-1-methylethyl acetate	
Freshwater		0,635 mg/l
Freshwater (intermittent releases)		6,35 mg/l
Marine water		0,0635 mg/l
Marine water (intermittent releases)		6,35 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
Marine water (intermittent releases)		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**



**Appropriate engineering controls**

Provide adequate ventilation as well as local exhaust at critical locations.

**Protective and hygiene measures**

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. Do not breathe gas/fumes/vapour/spray.

**Eye/face protection**

Wear eye protection/face protection.

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**Hand protection**

Wear protective gloves.

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.

**Environmental exposure controls**

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:	black
Odour:	like: Solvents
pH-Value:	not determined

**Changes in the physical state**

Melting point:	not determined
Initial boiling point and boiling range:	(n-butyl acetate) 126 °C
Flash point:	(n-butyl acetate) 27 °C

**Flammability**

Solid:	not applicable
Gas:	not applicable

**Explosive properties**

The product is not: Explosive.  
Vapours can form explosive mixtures with air.

Lower explosion limits:	not determined
Upper explosion limits:	not determined
Ignition temperature:	not determined

**Auto-ignition temperature**

Solid:	not applicable
Gas:	not applicable

Decomposition temperature:	not determined
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**Oxidizing properties**

Not oxidising.

Vapour pressure:	not determined
Density:	1,05 g/cm <sup>3</sup>
Water solubility:	not determined

**Solubility in other solvents**

not determined

Partition coefficient:	not determined
Viscosity / dynamic:	not determined

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Viscosity / kinematic:	not determined
Flow time:	(4 mm) 140 - 170 s
Vapour density:	not determined
Evaporation rate:	not determined

**9.2. Other information**

Solid content:	72 %
Odour threshold:	not determined

**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**

Vapours can form explosive mixtures with air.

**10.4. Conditions to avoid**

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

**10.5. Incompatible materials**

Oxidizing agent. Pyrophoric or self-heating substances.

**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	Method
123-86-4	n-butyl acetate				
	oral	LD50 mg/kg	10760	Rat	Manufacturer OECD 423
	dermal	LD50 mg/kg	14112	Rat	Manufacturer OECD 402
	inhalation (4 h) vapour	LC50	> 21 mg/l	Rat	Manufacturer OECD 403
	inhalation (4 h) aerosol	LC50	9,5 mg/l	Rat	Manufacturer
108-65-6	2-methoxy-1-methylethyl acetate				
	oral	LD50 mg/kg	> 5000	Rat	Manufacturer
	dermal	LD50 mg/kg	> 5000	Rabbit	Manufacturer
1330-20-7	xylene				
	oral	LD50 mg/kg	> 3523	Rat	Manufacturer
	dermal	LD50 mg/kg	1700	Rabbit	Manufacturer
	inhalation vapour	ATE	11 mg/l		
	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**

May cause drowsiness or dizziness. (n-butyl acetate)

**STOT-repeated exposure**

Repeated exposure may cause skin dryness or cracking.

**Aspiration hazard**

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

**SECTION 12: Ecological information**

**12.1. Toxicity**

The product is not: Ecotoxic.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
123-86-4	n-butyl acetate					
	Acute fish toxicity	LC50	18 mg/l	96 h	Pimephales promelas	Manufacturer
	Acute crustacea toxicity	EC50	44 mg/l	48 h	Daphnia magna (Big water flea)	Manufacturer
	Crustacea toxicity	NOEC	23 mg/l	21 d	Daphnia magna (Big water flea)	OECD 211
108-65-6	2-methoxy-1-methylethyl acetate					
	Acute fish toxicity	LC50	134 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	Manufacturer
	Acute algae toxicity	ErC50	> 1000 mg/l	96 h	Pseudokirchneriella subcapitata	OECD 201
	Acute crustacea toxicity	EC50	408 mg/l	48 h	Daphnia magna (Big water flea)	Manufacturer
1330-20-7	xylene					
	Acute fish toxicity	LC50	780 mg/l	96 h	Cyprinus carpio (Common Carp)	Manufacturer
	Crustacea toxicity	NOEC	1,17 mg/l	7 d	Ceriodaphnia dubia	Manufacturer

**12.2. Persistence and degradability**

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
123-86-4	n-butyl acetate			
	OECD 301D	> 80 %	5	Manufacturer
	Readily biodegradable (according to OECD criteria).			
108-65-6	2-methoxy-1-methylethyl acetate			
	OECD 301F	83 %	28	Manufacturer
	Readily biodegradable (according to OECD criteria).			
	OECD 302B	100 %	28	Manufacturer
	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
123-86-4	n-butyl acetate	1,81
108-65-6	2-methoxy-1-methylethyl acetate	1,2
1330-20-7	xylene	2,77 - 3,15

**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: 163 367 650  
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: 163 367 650  
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-TI/IATA-DGR)**

**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

**14.5. 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**

Restrictions on use (REACH, annex XVII):

Entry 3: n-butyl acetate; 2-methoxy-1-methylethyl acetate; xylene

Entry 40: xylene; n-butyl acetate; 2-methoxy-1-methylethyl acetate

2010/75/EU (VOC): &lt; 70 %

2004/42/EC (VOC): &lt; 70 %

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 contaminating class (D): 2 - clearly water contaminating

**15.2. Chemical safety assessment**

For the following substances of this mixture a chemical safety assessment has been carried out:

2-methoxy-1-methylethyl acetate

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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%

**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
STOT SE 3; H336	Calculation method

**Relevant H and EUH statements (number and full text)**

H226 Flammable liquid and vapour.  
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.  
EUH066 Repeated exposure may cause skin dryness or cracking.

**Further Information**

The information is based on present level of our knowledge. It does not, however, give assurances 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.)*