

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**ORAFOL® Long-Lasting Seal for Matt Car Wrapping Films**

Revision date: 28.04.2021

Product code: 359500027

Page 1 of 10

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

ORAFOL® Long-Lasting Seal for Matt Car Wrapping Films

**Further trade names**

ORAFOL® Langzeitversiegelung für matte Fahrzeugvollverklebungen

UFI: R5JQ-JKFE-JA3W-WVJY

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

Automotive care products. 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	
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**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Special labelling of certain mixtures**

EUH210 Safety data sheet available on request.

**2.3. Other hazards**

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

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Chemical characterization**

Labelling for contents according to regulation (EC) No. 648/2004: &lt; 5% non-ionic surfactants, perfumes (free of allergens 2003/15 / EC). Further information: 3-butoxypropan-2-ol; propylene glycol monobutyl ether, Ethanol.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ORAFOL® Long-Lasting Seal for Matt Car Wrapping Films

Revision date: 28.04.2021

Product code: 359500027

Page 2 of 10

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
5131-66-8	3-butoxypropan-2-ol; propylene glycol monobutyl ether			1 - < 5 %
	225-878-4	603-052-00-8	01-2119475527-28	
	Skin Irrit. 2, Eye Irrit. 2; H315 H319			
64-17-5	ethanol, ethyl alcohol			1 - < 5 %
	200-578-6	603-002-00-5	01-2119457610-43	
	Flam. Liq. 2, Eye Irrit. 2; H225 H319			

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

#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
5131-66-8	225-878-4	3-butoxypropan-2-ol; propylene glycol monobutyl ether	1 - < 5 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = 3300 mg/kg		
64-17-5	200-578-6	ethanol, ethyl alcohol	1 - < 5 %
	inhalation: LC50 = 124,7 mg/l (vapours); oral: LD50 = 10470 mg/kg		

#### Further Information

The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### After inhalation

Provide fresh air.

##### After contact with skin

Wash with plenty of water. Remove contaminated, saturated clothing.

##### After contact with eyes

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

##### After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Get medical advice/attention. Let water be drunken in little sips (dilution effect).

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

No known symptoms to date.

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

Defoamer (Dimeticon); Water, to which activated charcoal may be added

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.  
The product itself does not burn.

#### 5.2. Special hazards arising from the substance or mixture

No special fire protection measures are necessary.

#### 5.3. Advice for firefighters

No special fire protection measures are necessary.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ORAFOL® Long-Lasting Seal for Matt Car Wrapping Films

Revision date: 28.04.2021

Product code: 359500027

Page 3 of 10

#### SECTION 6: Accidental release measures

##### 6.1. Personal precautions, protective equipment and emergency procedures

###### General measures

Avoid contact with eyes.

##### 6.2. Environmental precautions

Suitable material for diluting or neutralizing: Water

##### 6.3. Methods and material for containment and cleaning up

###### For cleaning up

Small amounts of spillages: Dilute with plenty of water.

Large amounts of spillages: 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.

#### SECTION 7: Handling and storage

##### 7.1. Precautions for safe handling

###### Advice on safe handling

Avoid contact with eyes.

###### Advice on protection against fire and explosion

No special measures are necessary.

##### 7.2. Conditions for safe storage, including any incompatibilities

###### Requirements for storage rooms and vessels

Keep container tightly closed. Keep only in the original container in a cool, well-ventilated place.

###### Hints on joint storage

No special measures are necessary.

###### Further information on storage conditions

storage temperature: < 30 °C

##### 7.3. Specific end use(s)

Automotive care products.

#### SECTION 8: Exposure controls/personal protection

##### 8.1. Control parameters

###### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
34590-94-8	(2-methoxymethylethoxy) propanol	50	308		TWA (8 h)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ORAFOL® Long-Lasting Seal for Matt Car Wrapping Films

Revision date: 28.04.2021

Product code: 359500027

Page 4 of 10

#### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
5131-66-8	3-butoxypropan-2-ol; propylene glycol monobutyl ether			
Worker DNEL, long-term		inhalation	systemic	147 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	52 mg/kg bw/day
Worker DNEL, long-term		dermal	local	50 %
Worker DNEL, acute		dermal	local	50 %
Consumer DNEL, long-term		inhalation	systemic	43 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	22 mg/kg bw/day
Consumer DNEL, long-term		dermal	local	50 %
Consumer DNEL, acute		dermal	local	50 %
Consumer DNEL, long-term		oral	systemic	12,5 mg/kg bw/day
64-17-5	ethanol, ethyl alcohol			
Worker DNEL, long-term		inhalation	systemic	950 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	343 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	114 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	206 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	87 mg/kg bw/day

#### PNEC values

CAS No	Substance	Value
5131-66-8	3-butoxypropan-2-ol; propylene glycol monobutyl ether	
Freshwater		0,525 mg/l
Freshwater (intermittent releases)		5,25 mg/l
Marine water		0,052 mg/l
Freshwater sediment		2,36 mg/kg
Marine sediment		0,236 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,16 mg/kg
64-17-5	ethanol, ethyl alcohol	
Freshwater		0,96 mg/l
Freshwater (intermittent releases)		2,75 mg/l
Marine water		0,79 mg/l
Freshwater sediment		3,6 mg/kg
Marine sediment		2,9 mg/kg
Secondary poisoning		380 mg/kg
Micro-organisms in sewage treatment plants (STP)		580 mg/l
Soil		0,63 mg/kg

## 8.2. Exposure controls

### Protective and hygiene measures

Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff. After cleaning apply high-fat content skin care cream.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ORAFOL® Long-Lasting Seal for Matt Car Wrapping Films

Revision date: 28.04.2021

Product code: 359500027

Page 5 of 10

#### Eye/face protection

Avoid contact with eyes.

#### Hand protection

Hand protection is not required.

#### Skin protection

Body protection: not required.

#### Respiratory protection

Usually no personal respirative protection necessary.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	colourless cloudy
Odour:	fruity
pH-Value (at 20 °C):	6,0 - 8,0

#### Changes in the physical state

Melting point:	not determined
Boiling point or initial boiling point and boiling range:	100 °C
Flash point:	>70 °C

#### Flammability

Solid/liquid:	not applicable
Gas:	not applicable

#### Explosive properties

The product is not: Explosive.

Lower explosion limits:	not applicable
Upper explosion limits:	not applicable
Auto-ignition temperature:	not applicable

#### Self-ignition temperature

Solid:	not applicable
Gas:	not applicable

Decomposition temperature:	not determined
----------------------------	----------------

#### Oxidizing properties

Not oxidising.

Vapour pressure: (at 20 °C)	23,5 hPa
--------------------------------	----------

Density (at 20 °C):	0,99 g/cm <sup>3</sup>
---------------------	------------------------

Water solubility:	completely miscible
-------------------	---------------------

#### Solubility in other solvents

not determined

Partition coefficient n-octanol/water:	not determined
--	----------------

Relative vapour density:	not determined
--------------------------	----------------

Evaporation rate:	not determined
-------------------	----------------

Solvent content:	8 %
------------------	-----

#### 9.2. Other information

Solid content:	not determined
----------------	----------------

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ORAFOL® Long-Lasting Seal for Matt Car Wrapping Films

Revision date: 28.04.2021

Product code: 359500027

Page 6 of 10

#### SECTION 10: Stability and reactivity

##### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

##### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

##### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

##### 10.4. Conditions to avoid

none

##### 10.5. Incompatible materials

none

##### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

#### SECTION 11: Toxicological information

##### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

###### Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
5131-66-8	3-butoxypropan-2-ol; propylene glycol monobutyl ether				
	oral	LD50 mg/kg	3300	Rat	Study report (1987) OECD Guideline 401
	dermal	LD50 mg/kg	> 2000	Rat	Study report (1987) OECD Guideline 402
64-17-5	ethanol, ethyl alcohol				
	oral	LD50 mg/kg	10470	Rat	Study report (1976) OECD Guideline 401
	inhalation (4 h) vapour	LC50 mg/l	124,7	Rat	Study report (1980) OECD Guideline 403

###### 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.

###### Additional information on tests

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

###### Practical experience

Has degreasing effect on the skin. After cleaning apply high-fat content skin care cream.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**ORAFOL® Long-Lasting Seal for Matt Car Wrapping Films**

Revision date: 28.04.2021

Product code: 359500027

Page 7 of 10

**11.2. Information on other hazards**
**Other information**

No information available.

**SECTION 12: Ecological information**
**12.1. Toxicity**

The product is not: Ecotoxic.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
5131-66-8	3-butoxypropan-2-ol; propylene glycol monobutyl ether					
	Acute fish toxicity	LC50 > 560 - < 1000 mg/l	96 h	Poecilia reticulata	Study report (1987)	OECD Guideline 203
	Acute algae toxicity	ErC50 > 1000 mg/l	96 h	Pseudokirchneriella subcapitata	Study report (1987)	Method: other: No specific guidance cite
	Acute crustacea toxicity	EC50 > 1000 mg/l	48 h	Daphnia magna	Study report (1987)	OECD Guideline 202
	Acute bacteria toxicity	(> 1000 mg/l)	3 h	activated sludge of a predominantly domestic sewage	Study report (2009)	OECD Guideline 209
64-17-5	ethanol, ethyl alcohol					
	Acute fish toxicity	LC50 15400 mg/l	96 h	Lepomis macrochirus	Bulletin of Environmental Contamination	other: EPA-660/3-75-00 9, 1975
	Acute algae toxicity	ErC50 ca. 22000 mg/l	96 h	Pseudokirchneriella subcapitata	Ecotoxicology and Environmental Safety 7	OECD Guideline 201
	Acute crustacea toxicity	EC50 > 10000 mg/l	48 h	Daphnia magna	Water Research 23(4): 495-499 (1989)	other: DIN 38412 Teil 11
	Fish toxicity	NOEC > 79 mg/l	100 d	Oryzias latipes	Environmental Toxicology and Chemistry,	Chronic effects of substance on reproduc
	Algae toxicity	NOEC 5400 mg/l	5 d	Skeletonema costatum	Environ Toxicol Chem 8(5):451-455. (1989)	Study to determine the sensitivity of a
	Crustacea toxicity	NOEC 2 mg/l	10 d	Ceriodaphnia dubia	Arch Environ Contam Toxicol 20(2):211-21	Follows the basic methodology for the th

**12.2. Persistence and degradability**

The surfactant contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

**12.3. Bioaccumulative potential**

No indication of bioaccumulation potential.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
5131-66-8	3-butoxypropan-2-ol; propylene glycol monobutyl ether	1,2
64-17-5	ethanol, ethyl alcohol	-0,77

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ORAFOL® Long-Lasting Seal for Matt Car Wrapping Films

Revision date: 28.04.2021

Product code: 359500027

Page 8 of 10

#### BCF

CAS No	Chemical name	BCF	Species	Source
64-17-5	ethanol, ethyl alcohol	1	Cyprinus carpio	Comparative Biochemi

#### 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 REACH, annex XIII.

#### 12.7. Other adverse effects

No special measures are necessary.

#### Further information

Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

##### List of Wastes Code - residues/unused products

200130 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents other than those mentioned in 20 01 29

##### List of Wastes Code - contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

##### Contaminated packaging

Cleaning agent: Water.

Dispose of waste according to "Kreislaufwirtschaftsgesetz (KrWG)". Non-contaminated packages may be recycled.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

##### Other applicable information (land transport)

No dangerous good in sense of this transport regulation.

#### Inland waterways transport (ADN)

##### Other applicable information (inland waterways transport)

No dangerous good in sense of these transport regulations.

#### Marine transport (IMDG)

##### Other applicable information (marine transport)

No dangerous good in sense of these transport regulations.

#### Air transport (ICAO-TI/IATA-DGR)

##### Other applicable information (air transport)

No dangerous good in sense of these transport regulations.

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**ORAFOL® Long-Lasting Seal for Matt Car Wrapping Films**

Revision date: 28.04.2021

Product code: 359500027

Page 9 of 10

**14.6. Special precautions for user**

No special measures are necessary.

**14.7. Maritime transport in bulk according to IMO instruments**

not relevant

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

2004/42/EC (VOC): 8 %  
Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III):

**Additional information**

Regulation (EC) No. 648/2004 (Detergents regulation).

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer: not applicable  
Regulation (EC) No 850/2004 [POP-Regulation]: not applicable

**National regulatory information**

Water hazard class (D): 1 - slightly 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****Changes**

This data sheet contains changes from the previous version in section(s):  
1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.

**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%  
CLP: Classification, labelling and Packaging  
REACH: Registration, Evaluation and Authorization of Chemicals  
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals  
UN: United Nations  
DNEL: Derived No Effect Level  
DMEL: Derived Minimal Effect Level  
PNEC: Predicted No Effect Concentration  
ATE: Acute toxicity estimate  
LL50: Lethal loading, 50%

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**ORAFOL® Long-Lasting Seal for Matt Car Wrapping Films**

Revision date: 28.04.2021

Product code: 359500027

Page 10 of 10

EL50: Effect loading, 50%  
EC50: Effective Concentration 50%  
ErC50: Effective Concentration 50%, growth rate  
NOEC: No Observed Effect Concentration  
BCF: Bio-concentration factor  
PBT: persistent, bioaccumulative, toxic  
vPvB: very persistent, very bioaccumulative  
MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
IBC: Intermediate Bulk Container  
VOC: Volatile Organic Compounds  
SVHC: Substance of Very High Concern  
For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

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

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
EUH210	Safety data sheet available on request.

**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.)*