

Safety Data Sheet

according to UK REACH Regulation

ORAFOL® Long-Lasting Seal for Glossy Car Wrapping Films

Revision date: 14/06/2024

Product code: 2000086

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

ORAFOL® Long-Lasting Seal for Glossy Car Wrapping Films

Further trade names

ORAFOL® Langzeitversiegelung für glänzende Fahrzeugvollverklebungen

UFI: YAHQ-GKJF-GA3Y-9FRA

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: EHSQ@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**

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

2.2. Label elements**GB CLP Regulation****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:

15 % - < 30% aliphatic hydrocarbons, < 5% non-ionic surfactants, perfumes, Preservative (PHENOXYETHANOL, BUTYLBENZISOTHIAZOLINONE, LAURYLAMINE DIPROPYLENEDIAMINE).

Relevant ingredients

CAS No	Chemical name	Quantity
	EC No Index No REACH No	
	Classification (GB CLP Regulation)	

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CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
64742-48-9	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (<0.1% benzene)			5 - <10 %
	918-481-9		01-2119457273-39	
	Asp. Tox. 1; H304 EUH066			
64742-47-8	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics (<0.001% benzene)			5 - <10 %
	926-141-6		01-2119456620-43	
	Asp. Tox. 1; H304 EUH066			
122-99-6	2-phenoxyethanol			< 1 %
	204-589-7	603-098-00-9	01-2119488943-21	
	Acute Tox. 4, Eye Dam. 1, STOT SE 3; H302 H318 H335			
2372-82-9	Laurylamindipropylendiamin			< 0,1 %
	219-145-8		01-2119980592-29	
	Acute Tox. 3, Skin Corr. 1B, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1; H301 H314 H373 H400 H410			
4299-07-4	2-n-butyl-benzo[d]isothiazol-3-one			< 0,1 %
	420-590-7	606-079-00-3	01-0000016721-74	
	Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H314 H318 H317 H400 H410			

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		
64742-48-9	918-481-9	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (<0.1% benzene)	5 - <10 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg		
64742-47-8	926-141-6	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics (<0.001% benzene)	5 - <10 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg		
122-99-6	204-589-7	2-phenoxyethanol	< 1 %
	dermal: LD50 = > 2000 mg/kg; oral: ATE 1394 mg/kg		
2372-82-9	219-145-8	Laurylamindipropylendiamin	< 0,1 %
	dermal: LD50 = > 600 mg/kg; oral: LD50 = 871 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=1		
4299-07-4	420-590-7	2-n-butyl-benzo[d]isothiazol-3-one	< 0,1 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = 4500 mg/kg Aquatic Acute 1; H400: M=1 Aquatic Chronic 1; H410: M=1		

Further Information

 Kinematic viscosity: > 20,5 mm²/s (40 °C)

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. Take off contaminated clothing and wash it before reuse.

After contact with eyes

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

After ingestion

Rinse mouth immediately and drink 1 glass of water. Do NOT induce vomiting. 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. 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

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

5.3. Advice for firefighters

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

Additional information

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

General advice

Special danger of slipping by leaking/spilling product. Provide adequate ventilation.

6.2. Environmental precautions

Product may not be released into water without pre-treatment (biological sewage plant). Do not allow to enter into surface water or drains.

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

Use only in well-ventilated areas.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

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

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

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Hints on joint storage

No special measures are necessary.

Further information on storage conditions

Protect against: Frost. storage temperature: 0 - 30°C

7.3. Specific end use(s)

Automotive care products

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
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
2372-82-9	Laurylamindipropylendiamin			
Worker DNEL, long-term		inhalation	systemic	0,789 mg/m ³
Worker DNEL, long-term		dermal	systemic	8,96 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,118 mg/m ³
Consumer DNEL, long-term		dermal	systemic	3,2 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,04 mg/kg bw/day

PNEC values

CAS No	Substance	Value
122-99-6	2-phenoxyethanol	
Environmental compartment		
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
2372-82-9	Laurylamindipropylendiamin	
Freshwater		0,001 mg/l
Freshwater (intermittent releases)		0 mg/l
Marine water		0 mg/l
Freshwater sediment		3,2 mg/kg
Marine sediment		0,13 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,18 mg/l
Soil		45,34 mg/kg

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls

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Individual protection measures, such as personal protective equipment

Eye/face protection

Eye protection: not required.

Hand protection

Hand protection is not required. Wash hands thoroughly after handling.

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, viscous
Colour:	light green
Odour:	fruity
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	100 - 220 °C
Flammability:	not applicable not applicable
Lower explosion limits:	0,6 vol. %
Upper explosion limits:	8 vol. %
Flash point:	>65 °C
Auto-ignition temperature:	240 °C
Decomposition temperature:	not determined
pH-Value (at 20 °C):	6,0 - 8,0
Viscosity / kinematic (at 40 °C):	>20,5 mm ² /s
Water solubility:	partially miscible (emulsifiable)
Solubility in other solvents	not determined
Partition coefficient n-octanol/water:	not determined
Vapour pressure (at 20 °C):	24 hPa
Density:	0,96 g/cm ³
Relative vapour density:	not determined

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

In use, may form flammable/explosive vapour-air mixture.

Self-ignition temperature

Solid: not applicable

Gas: not applicable

Oxidizing properties

The product is not: oxidising.

Other safety characteristics

Evaporation rate: not determined

Solvent content: 15 %

Solid content: not determined

Viscosity / dynamic (at 20 °C): 4000-6000 mPa·s

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Further Information

Not sustaining combustion.

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

No information available.

10.6. Hazardous decomposition products

No information available.

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.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64742-48-9	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (<0.1% benzene)				
	oral	LD50 > 5000 mg/kg	Rat	Study report (1995)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rat	Study report (1989)	OECD Guideline 402
64742-47-8	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics (<0.001% benzene)				
	oral	LD50 > 5000 mg/kg	Rat	Study report (1995)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rat	Study report (1989)	OECD Guideline 402
122-99-6	2-phenoxyethanol				
	oral	ATE 1394 mg/kg			
	dermal	LD50 > 2000 mg/kg	Rabbit	J. Am. Coll. Toxicol. 9(2): 259-277 (198)	other: Draft IRLG
2372-82-9	Laurylamindipropylendiamin				
	oral	LD50 871 mg/kg	Rat	Study report (1988)	OECD Guideline 401
	dermal	LD50 > 600 mg/kg	Rat	Study report (1989)	EU Method B.3
4299-07-4	2-n-butyl-benzo[d]isothiazol-3-one				
	oral	LD50 4500 mg/kg			
	dermal	LD50 > 2000 mg/kg			

Irritation and corrosivity

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Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

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

Contains: perfumes. Reference to other sections: Section 3: Composition/Information on Ingredients

Carcinogenic/mutagenic/toxic effects for reproduction

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

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

Reproductive toxicity: 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].

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h][d]	Species	Source	Method
64742-48-9	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (<0.1% benzene)					
	Acute algae toxicity	ErC50 > 1000 mg/l	72 h	Pseudokirchneriella subcapitata	REACH Registration Dossier	OECD Guideline 201
	Fish toxicity	NOEC 0,101 mg/l	28 d	Oncorhynchus mykiss	REACH Registration Dossier	The aquatic toxicity was estimated by a
	Crustacea toxicity	NOEC 0,176 mg/l	21 d	Daphnia magna	REACH Registration Dossier	The aquatic toxicity was estimated by a
64742-47-8	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics (<0.001% benzene)					
	Acute algae toxicity	ErC50 > 1000 mg/l	72 h	Pseudokirchneriella subcapitata	Study report (1994)	OECD Guideline 201
	Fish toxicity	NOEC 0,173 mg/l	28 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)	The aquatic toxicity was estimated by a
	Crustacea toxicity	NOEC 1,22 mg/l	21 d	Daphnia magna	Company report (2010)	The aquatic toxicity was estimated by a

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h][d]	Species	Source	Method
122-99-6	2-phenoxyethanol					
	Acute fish toxicity	LC50 344 mg/l	96 h	Pimephales promelas	Publication (1984)	other: ASTM
	Acute algae toxicity	ErC50 > 500 mg/l	72 h	Desmodesmus subspicatus	Study report (2012)	OECD Guideline 201
	Acute crustacea toxicity	EC50 > 500 mg/l	48 h	Daphnia magna	Study report (1989)	other: EU guideline 79/831 EEC, Annex V,
	Fish toxicity	NOEC 23 mg/l	34 d	Pimephales promelas	Study report (2005)	OECD Guideline 210
	Crustacea toxicity	NOEC 9,43 mg/l	21 d	Daphnia magna	Study report (2006)	OECD Guideline 211
	Acute bacteria toxicity	EC50 > 1000 mg/l ()	0,5 h	activated sludge of a predominantly domestic sewage	Study report (2002)	OECD Guideline 209
2372-82-9	Laurylamindipropylendiamin					
	Acute fish toxicity	LC50 0,431 mg/l	96 h	Danio rerio	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 0,054 mg/l	72 h	Pseudokirchneriella subcapitata	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 0,073 mg/l	48 h	Daphnia magna	REACH Registration Dossier	EPA OPPTS 850.1010
	Crustacea toxicity	NOEC 0,024 mg/l	21 d	Daphnia magna	REACH Registration Dossier	OECD Guideline 211
	Acute bacteria toxicity	EC50 18 mg/l ()	3 h	activated sludge of a predominantly domestic sewage	REACH Registration Dossier	OECD Guideline 209
4299-07-4	2-n-butyl-benzo[d]isothiazol-3-one					
	Acute fish toxicity	LC50 0,15 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	ECHA	
	Acute algae toxicity	ErC50 0,45 mg/l	72 h	Desmodesmus subspicatus	ECHA	
	Acute crustacea toxicity	EC50 0,093 mg/l	48 h	other aquatic crustacea	ECHA	
	Fish toxicity	NOEC 0,031 mg/l	4 d	Oncorhynchus mykiss (Rainbow trout)	ECHA	
	Algae toxicity	NOEC 0,099 mg/l	3 d	Desmodesmus subspicatus	ECHA	
	Crustacea toxicity	NOEC 0,041 mg/l	2 d	other aquatic crustacea	ECHA	

12.2. Persistence and degradability

The product has not been tested. The organic part of the product is biodegradable. Solvents: Abiotic degradation. The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

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CAS No	Chemical name	Value	d	Source
	Method			
	Evaluation			
122-99-6	2-phenoxyethanol	21,33%	20	
4299-07-4	2-n-butyl-benzo[d]isothiazol-3-one	0	28	

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
122-99-6	2-phenoxyethanol	1,2
2372-82-9	Laurylamindipropylendiamin	0,34

BCF

CAS No	Chemical name	BCF	Species	Source
64742-48-9	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (<0.1% benzene)	790,9	calculated	Other company data (
64742-47-8	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics (<0.001% benzene)	144,3	calculated	Other company data (
122-99-6	2-phenoxyethanol	0,349	calculation	QSAR (2007)

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

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 meets the criteria.

No information available.

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.

List of Wastes Code - residues/unused products

120121 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; spent grinding bodies and grinding materials other than those mentioned in 12 01 20

List of Wastes Code - contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND

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PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

Contaminated packaging

Cleaning agent: Water with tenside additive.

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 or ID number:** No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

- 14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

- 14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

- 14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

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

Restrictions on use (REACH, annex XVII):

Entry 75

Directive 2004/42/EC on VOC in paints and varnishes: 15 %

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

Additional information

Regulation (EC) No. 648/2004 [Detergents regulation]: applicable

Regulation (EC) No 850/2004 [POP-Regulation]: not applicable

Contains the following substances that deplete the ozone layer: none

Contains the following substances of very high concern (SVHC) which are included in the Candidate List

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according to Article 59 of REACH: none
Contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH: none

Use restriction according to REACH annex XVII, no.: 3 (Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (<0.1% benzene); Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics (<0.001% benzene); 2-phenoxyethanol).

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

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

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (<0.1% benzene)
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics (<0.001% benzene)
2-phenoxyethanol
Laurylamindipropylendiamin
2-n-butyl-benzo[d]isothiazol-3-one

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,3,7,14,15.

Abbreviations and acronyms

Acute Tox: Acute toxicity
Asp. Tox: Aspiration hazard
Skin Corr: Skin corrosion
Eye Dam: Eye damage
Skin Sens: Skin sensitisation
STOT SE: Specific target organ toxicity - single exposure
STOT RE: Specific target organ toxicity - repeated exposure
Aquatic Acute: Acute aquatic hazard
Aquatic Chronic: Chronic aquatic hazard
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%
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

Safety Data Sheet

according to UK REACH Regulation

ORAFOL® Long-Lasting Seal for Glossy Car Wrapping Films

Revision date: 14/06/2024

Product code: 2000086

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VOC: Volatile Organic Compounds

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

RID: Regulations concerning the international carriage of dangerous goods by rail

Relevant H and EUH statements (number and full text)

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)