

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

ORAFOL® Long-Lasting Seal for Glossy Car Wrapping Films

Revision date: 27.04.2021

Product code: 359500017

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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:	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: 15 % -< 30% aliphatic hydrocarbons, < 5% non-ionic surfactants, perfumes, Preservative (2-phenoxyethanol, Laurylamindipropylendiamin, 2-n-butyl-benzo[d]isothiazol-3-one), dyestuff.

Further information: wax, synth. polymer, silicone oil, Thickener/Thickening agent.

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Hazardous components

CAS No	Chemical name	Quantity
	EC No	Index No
	REACH No	
	GHS Classification	
	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	
	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 Irrit. 2; H302 H319	
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	
	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	
	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 = > 2214 mg/kg; oral: LD50 = 2740 mg/kg	
2372-82-9	219-145-8	Laurylamindipropylendiamin	< 0,1 %
		dermal: LD50 = > 600 mg/kg; oral: LD50 = 871 mg/kg M akut; H400: M=10 M chron.; 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 M akut; H400: M=10 M chron.; H410: M=10	

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.

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After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

After contact with eyes

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 measures**

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.

7.2. Conditions for safe storage, including any incompatibilities

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Requirements for storage rooms and vessels

Keep container tightly closed.

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			
DNEL type		Exposure route	Effect	Value
122-99-6	2-phenoxyethanol			
Worker DNEL, long-term		inhalation	systemic	5,7 mg/m³
Worker DNEL, long-term		inhalation	local	5,7 mg/m³
Worker DNEL, long-term		dermal	systemic	20,83 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	2,41 mg/m³
Consumer DNEL, long-term		inhalation	local	2,41 mg/m³
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/m³
Worker DNEL, long-term		dermal	systemic	8,96 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,118 mg/m³
Consumer DNEL, long-term		dermal	systemic	3,2 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,04 mg/kg bw/day

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PNEC values

CAS No	Substance	
Environmental compartment		Value
122-99-6	2-phenoxyethanol	
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

8.2. Exposure controls

Protective and hygiene measures

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

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
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 - 220 °C
Flash point:	>65 °C

Flammability

Solid/liquid:	not applicable
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Gas: not applicable

Explosive properties

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

Lower explosion limits: 0,6 vol. %

Upper explosion limits: 8 vol. %

Auto-ignition temperature: 240 °C

Self-ignition temperature

Solid: not applicable

Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties

The product is not: oxidising.

Vapour pressure: 24 hPa
(at 20 °C)Density: 0,96 g/cm³

Water solubility: partially miscible (emulsifiable)

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined

Viscosity / dynamic: 4000-6000 mPa·s
(at 20 °C)Viscosity / kinematic: >20,5 mm²/s
(at 40 °C)

Relative vapour density: not determined

Evaporation rate: not determined

Solvent content: 15 %

9.2. Other information

Solid content: not determined

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

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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
	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
	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	LD50 2740 mg/kg	Rat	Study report (1982)	OECD Guideline 401
	dermal	LD50 > 2214 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

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

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.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
	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
	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
122-99-6	2-phenoxyethanol					
	Acute fish toxicity	LC50 344 mg/l	96 h	Pimephales promelas	Publication (1984)	other: ASTM
	Acute algae toxicity	ErC50 > 100 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	(> 1000 mg/l)	0,5 h	activated sludge of a predominantly domestic sewage	Study report (2002)	OECD Guideline 209
2372-82-9	Laurylamindipropyldiamin					
	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	(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	

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	Acute algae toxicity	ErC50 mg/l	0,45	72 h	Desmodesmus subspicatus	ECHA	
	Acute crustacea toxicity	EC50 mg/l	0,093	48 h	other aquatic crustacea	ECHA	
	Fish toxicity	NOEC mg/l	0,031	4 d	Oncorhynchus mykiss (Rainbow trout)	ECHA	
	Algae toxicity	NOEC mg/l	0,099	3 d	Desmodesmus subspicatus	ECHA	
	Crustacea toxicity	NOEC mg/l	0,041	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.

CAS No	Chemical name			
	Method	Value	d	Source
	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
	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (<0.1% benzene)	790,9	calculated	Other company data (
	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 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

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.

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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 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)****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

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): 15 %

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

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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): 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

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).

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%

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>

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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.
H319	Causes serious eye 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 hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)