

Safety Data Sheet

according to Regulation (EC) No 1907/2006

alwitra Klebstoff L 40 - alwitra colle L 40 - alwitra adhesive L 40

Revision date: 06.12.2023

Product code: AWT-004

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

alwitra Klebstoff L 40 - alwitra colle L 40 - alwitra adhesive L 40

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

Use of the substance/mixture

Used for bonding of fleece-backed EVALON® and EVALASTIC® roofing and sealing membranes

Uses advised against

Only use for the intended purpose.

The product is intended for professional use.

1.3. Details of the supplier of the safety data sheet

Company name: alwitra GmbH
Street: Am Forst 1
Place: D-54296 Trier-Irsch
Telephone: 0651 - 9102 - 0
E-mail (Contact person): pm-ddb@alwitra.de
Responsible Department: Produkt Management DDB

1.4. Emergency telephone number:

national emergency number: +353 1 8092566

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Flam. Liq. 2; H225
Skin Irrit. 2; H315
STOT SE 3; H336
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

Hydrocarbons, C6, isoalkanes, <5% n-hexane
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

Signal word: Danger

Pictograms:



Hazard statements

H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic 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.
P241 Use explosion-proof electrical/ventilating/lighting equipment.

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P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P501	Dispose of contents/container according to regional/national regulations. Do not discard with household waste.

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.
This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization
adhesives

Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
	Hydrocarbons, C6, isoalkanes, <5% n-hexane			>20-<25 %
	931-254-9		01-2119484651-34	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411			
	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics			>10-<=20 %
	927-510-4		01-2119475515-33	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411			
	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane			>2,5-<=5 %
	926-605-8		01-2119486291-36	
	Flam. Liq. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H336 H304 H411 EUH066			
1314-13-2	zinc oxide			>2,5-<=5 %
	215-222-5	030-013-00-7	01-2119463881-32	
	Aquatic Acute 1, Aquatic Chronic 1; 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		
	931-254-9	Hydrocarbons, C6, isoalkanes, <5% n-hexane	>20-<25 %
	inhalation: LC50 = 25,2 mg/l (vapours); dermal: LD50 = 2920 mg/kg; oral: LD50 = 5840 mg/kg		
1314-13-2	215-222-5	zinc oxide	>2,5-<=5 %
	oral: LD50 = > 5000 mg/kg		

SECTION 4: First aid measures

4.1. Description of first aid measures

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General information

In case of troubles or persistent symptoms, consult an doctor/physician.
Remove persons from danger area and lie them down. Never orally infuse something to an unconscious person. No special first aid measures necessary. A vomiting, supine person must be brought into recovery position.

After inhalation

Provide fresh air. In case of respiratory tract irritation, consult a physician.
In case of irregular breathing or respiratory arrest, perform artificial respiration.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Subsequently wash off with: Polyethylene glykol 400. Change contaminated clothing. In case of skin irritation, consult a physician.

After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

After ingestion

Do NOT induce vomiting. Call a physician immediately.

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

Causes skin irritation. Narcotic effects

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

Carbon dioxide (CO₂). Sand. Extinguishing powder. Water spray. Fight larger fires with water spray jet or alcohol-resistant foam.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Highly flammable liquid and vapour.
Thermal decomposition can lead to harmful gases and vapours.

5.3. Advice for firefighters

Co-ordinate fire-fighting measures to the fire surroundings. Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Do not allow to enter into surface water or drains. Cool the endangered containers with a stream of water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation. Keep away from sources of ignition - No smoking.

For non-emergency personnel

Avoid contact with skin, eyes and clothes.

For emergency responders

Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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6.3. Methods and material for containment and cleaning up

For containment

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.

For cleaning up

Do not rinse with water or watery detergents.
Provide adequate ventilation.

6.4. Reference to other sections

Safe handling: see section 7
Personal precautions: refer to section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide adequate ventilation as well as local exhaust at critical locations. Handle and open container with care. Avoid contact with skin, eyes and clothes. Do not breathe mist/vapours/spray. Wear personal protection equipment.
Do not empty into drains; dispose of this material and its container in a safe way.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

Advice on general occupational hygiene

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink. Avoid contact with skin, eyes and clothes. After contact with skin, wash immediately with plenty of water and soap or a suitable cleaning agent.

Further information on handling

Avoid the formation of aerosol.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store only in original container. Keep container tightly closed in a cool, well-ventilated place. Protect against heat and direct solar irradiation.

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

adhesives. Used for bonding of fleece-backed EVALON® and EVALASTIC® roofing and sealing membranes

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
1314-13-2	Zinc oxide, fume (Respirable Fraction)	-	2		TWA (8 h)	
		-	10		STEL (15 min)	

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DNEL/DMEL values

CAS No	Substance		
DNEL type	Exposure route	Effect	Value
Hydrocarbons, C6, isoalkanes, <5% n-hexane			
Consumer DNEL, long-term	dermal		1377 mg/kg bw/day
Worker DNEL, long-term	dermal		13964 mg/kg bw/day
Consumer DNEL, long-term	inhalation		1137 mg/m ³
Worker DNEL, long-term	inhalation		5306 mg/m ³
Consumer DNEL, long-term	oral		1301 mg/kg bw/day
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics			
Consumer DNEL, long-term	oral		149 mg/kg bw/day
Consumer DNEL, long-term	dermal		149 mg/kg bw/day
Worker DNEL, long-term	dermal		300 mg/kg bw/day
Consumer DNEL, long-term	inhalation		477 mg/m ³
Worker DNEL, long-term	inhalation		2085 mg/m ³
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane			
Consumer DNEL, long-term	oral		1301 mg/kg bw/day
Consumer DNEL, long-term	dermal		1377 mg/kg bw/day
Worker DNEL, long-term	dermal		13964 mg/kg bw/day
Consumer DNEL, long-term	inhalation		1131 mg/m ³
Worker DNEL, long-term	inhalation		5306 mg/m ³

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations. Take precautionary measures against static discharges.

Individual protection measures, such as personal protective equipment

Eye/face protection

Tightly fitting safety glasses with side shields.

Hand protection

Protect skin by using skin protective cream.

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.

Recommended material: FKM (fluoro rubber) ($\geq 0,4$ mm).

The exact break-through time must be obtained from the manufacturer of the protective gloves and adhered to.

Skin protection

Full cover clothing covering arms and legs.

Respiratory protection

Use protective filter mask in case of short-term and low exposure; in case of intense or longer exposure, use respiratory protection device operating independently from circulating air.

Respirator with combination filter for vapour and particles. Filter type A-P2.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid	
Colour:	white	
Odour:	like gasoline	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		60 °C
Flammability:		not determined
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		-25 °C
Auto-ignition temperature:		not determined
Decomposition temperature:		not determined
pH-Value:		not determined
Viscosity / kinematic:		6850 mm ² /s
Water solubility:	Not mixable and/or hard to mix.	
Dissolution rate:	No data available	
Partition coefficient n-octanol/water:	not determined	
Dispersion stability:	No data available	
Vapour pressure:	No data available	
(at 20 °C)		
Vapour pressure:	No data available	
Density (at 20 °C):	1,02 g/cm ³	
Relative density:	No data available	
Bulk density:	No data available	
Relative vapour density:	not determined	
Particle characteristics:	No data available	

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

The product is not explosive, however, formation of explosive mixtures are possible.

Self-ignition temperature

Gas: not determined

Oxidizing properties

not determined

Other safety characteristics

Solvent content: 43 %

Solid content: 57% (DIN EN 827.8.2)

Viscosity / dynamic: 7000 mPa·s
(at 20 °C)

Further Information

No further data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactivity under regular conditions.

10.2. Chemical stability

The product is stable under regular conditions.

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10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Keep away from heat.

10.5. Incompatible materials

No further relevant information available.

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.

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
	Hydrocarbons, C6, isoalkanes, <5% n-hexane				
	oral	LD50 mg/kg	5840	Rat	
	dermal	LD50 mg/kg	2920	Rabbit	
	inhalation (4 h) vapour	LC50	25,2 mg/l	Rat	
1314-13-2	zinc oxide				
	oral	LD50 mg/kg	> 5000	Rat	IUCLID

Irritation and corrosivity

Causes skin irritation.

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.

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

May cause drowsiness or dizziness. (Hydrocarbons, C6, isoalkanes, <5% n-hexane; Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)

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.

11.2. Information on other hazards

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

SECTION 12: Ecological information

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12.1. Toxicity

Toxic to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
	Hydrocarbons, C6, isoalkanes, <5% n-hexane					
	Acute fish toxicity	LC50 mg/l	11,4	96 h	Oncorhynchus mykiss (Rainbow trout) Oncorhynchus mykiss (Rainbow trout)	
	Acute crustacea toxicity	EC50	3 mg/l	48 h	Daphnia magna	
	Crustacea toxicity	NOEC mg/l	0,17	21 d	Daphnia magna	
1314-13-2	zinc oxide					
	Acute fish toxicity	LC50 mg/l	0,315	96 h	Thymallus arcticus	
	Acute algae toxicity	ErC50 mg/l	0,74	96 h	Anabaena sp.	
	Acute bacteria toxicity	EC50 ()	5,2 mg/l	3 h		

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

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.

12.6. 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.

12.7. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Disposal according to official regulations.

Consult the local waste disposal expert about waste disposal. According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

List of Wastes Code - residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

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150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

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 or ID number: UN 1133
14.2. UN proper shipping name: ADHESIVES
14.3. Transport hazard class(es): 3
14.4. Packing group: III
Hazard label: 3



Classification code: F1
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 or ID number: UN 1133
14.2. UN proper shipping name: Adhesives
14.3. Transport hazard class(es): 3
14.4. Packing group: III
Hazard label: 3



Classification code: F1
Limited quantity: 5 L
Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number or ID number: UN 1133
14.2. UN proper shipping name: ADHESIVES
14.3. Transport hazard class(es): 3
14.4. Packing group: III
Hazard label: 3



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

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1133

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14.2. UN proper shipping name: ADHESIVES

14.3. Transport hazard class(es): 3

14.4. Packing group: III

Hazard label: 3



Special Provisions: A3

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: Yes



Danger releasing substance: zinc oxide, Hydrocarbons, C6, isoalkanes, <5% n-hexane
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

14.6. Special precautions for user

No special precautions known.

14.7. Maritime transport in bulk according to IMO instruments

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 40

Directive 2004/42/EC on VOC in
paints and varnishes: 409,0g/l

Information according to Directive
2012/18/EU (SEVESO III): E2 Hazardous to the Aquatic Environment

Additional information: P5c

Additional information

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer: not applicable

Regulation (EC) No. 648/2004 [Detergents regulation]: not applicable

Regulation (EC) No 2019/1021 on persistent organic pollutants: not applicable

Regulation (EC) No 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals: This mix contains no chemicals that are subject to the export notification procedures (annex 1).

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

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

Additional information

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Observe in addition any national regulations!

15.2. Chemical safety assessment

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

Hydrocarbons, C6, isoalkanes, <5% n-hexane

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

zinc oxide

SECTION 16: Other information**Changes**

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

Version 13,00 - General update - 25.10.2016

Version 14,00 - General update - 02.05.2017

Version 15,00 - General update - 09.08.2019

Version 16,00 - General update - 04.12.2020

Version 17,00 - General update - 15.06.2022

Version 18,00 - General update - 07.02.2023

Version 19,00 - General update - 06.12.2023

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Abbreviations and acronyms

Flam. Liq: Flammable liquid
 Asp. Tox: Aspiration hazard
 Skin Irrit: Skin irritation
 STOT SE: Specific target organ toxicity - single 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)
 BImSchV (Fed.Imm.Prot.Act): Directive on the Implementation of the Federal Immission Protection Act
 CAS: Chemical Abstracts Service
 DIN: Norm of the Deutsche Institut für Normung (German Institute for Standardization)
 EC: Effective Concentration
 EG: European Community (Europäische Gemeinschaft)
 EN: European Norm
 IATA: International Air Transport Association
 IBC Code: International Code for the Construction and Equipment of ships carrying Dangerous Chemicals in Bulk
 ICAO: International Civil Aviation Organization
 IMDG: International Maritime Code for Dangerous Goods
 ISO: Norm of the International Standards Organization
 CLP: Classification, Labeling, Packaging
 IUCLID: International Uniform Chemical Information Database
 LC: Lethal concentration
 LD: Lethal dose
 log Kow: Octanol/water partition coefficient
 MARPOL: Maritime Pollution Convention = Convention for the Prevention of Maritime Pollution from Ships
 OECD: Organisation for Economic Co-operation and Development
 PBT: Persistent, bio-cumulative, toxic
 RID: Regulation Concerning the International Transport of Dangerous Goods by Rail
 TRGS: Technische Regeln für Gefahrstoffe
 UN: United Nations
 VOC: Volatile Organic Compounds
 vPvB: very persistent and very bio-cumulative
 WGK: German Water Hazard Class
 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
 DNEL: Derived No Effect Level
 PNEC: Predicted No Effect Concentration
 TLV: Threshold Limiting Value
 STOT: Specific Target Organ Toxicity
 AwSV: Ordinance on Installations for Handling Substances Hazardous to Water

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Skin Irrit. 2; H315	Calculation method
STOT SE 3; H336	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.
 H304 May be fatal if swallowed and enters airways.
 H315 Causes skin irritation.
 H336 May cause drowsiness or dizziness.

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H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Further Information

The information given in this safety data sheet is to describe the product's safety regulations. It is not for guaranteeing certain characteristics and is based on today's knowledge. The safety data sheet was generated upon information of pre-suppliers by:

asseso AG, Ottostraße 1, 63741, Aschaffenburg, Germany

Phone: +49 (0)6021 - 1 50 86-0, Fax: +49 (0)6021 - 1 50 86-77, E-Mail: eu-sds@asseso.eu, www.asseso.eu

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