

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 4/23/2014 Revision date: 1/27/2020 Version: 1.4

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

1.1. Product identifier

Product form : Substance
Substance name : PALMAROSA OIL
EC-No. : 283-461-2
CAS-No. : 84649-81-0
Product code : PALHE01
Product group : Essential oil

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

1.2.1. Relevant identified uses

Main use category : Industrial use Industrial/Professional use spec : Industrial

For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

EXAFLOR

5 rue des Pyrénées P.O. Box CP 30561

94653 Rungis Cedex - France

T +33 (0)1 41 73 23 10 - F +33 (0)1 41 73 23 19

exaflor@orange.fr - www.exaflor.fr

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
	ORFILA (FRANCE)		+33 1 45 42 59 59	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2

Serious eye damage/eye irritation, Category 1

Skin sensitisation, Category 1

Hazardous to the aquatic environment — Chronic Hazard, Category 3

H412

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS05 GHS07

Signal word (CLP) : Danger

Hazard statements (CLP) : H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) : P261 - Avoid breathing fume, dust, vapours.

P264 - Wash hands thoroughly after handling.

P280 - Wear protective gloves, protective clothing, eye protection. P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

POISON CENTER, a doctor.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse.

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2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

: PALMAROSA OIL Name CAS-No. : 84649-81-0 EC-No. : 283-461-2

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
GERANIOL	(CAS-No.) 106-24-1 (EC-No.) 203-377-1	72 - 86	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317
GERANYL ACETATE	(CAS-No.) 105-87-3 (EC-No.) 203-341-5	7 - 16	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412
LINALOOL	(CAS-No.) 78-70-6 (EC-No.) 201-134-4	1 - 5.5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
FARNESOL	(CAS-No.) 4602-84-0 (EC-No.) 225-004-1	0 - 1.5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
D-LIMONENE	(CAS-No.) 5989-27-5 (EC-No.) 227-813-5 (EC Index-No.) 601-029-00-7	0 - 1.3	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CITRAL	(CAS-No.) 5392-40-5 (EC-No.) 226-394-6	0.2 - 1.1	Skin Irrit. 2, H315 Skin Sens. 1, H317

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation ow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Wash with plenty of water/.... Wash contaminated clothing before reuse. If skin irritation

occurs: Rinse skin with water/shower. Get medical advice/attention. Specific treatment (see Refer to instruction manual/booklet on this label). If skin irritation or rash occurs: Rinse skin

with water/shower

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/effects after inhalation : May cause an allergic skin reaction.

Symptoms/effects after skin contact : Causes skin irritation. Symptoms/effects after eye contact : Causes serious eye damage.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

: Foam. Dry powder. Carbon dioxide. Water spray. Sand. Suitable extinguishing media

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

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Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent

formation of vapour. Avoid breathing mist, fume, dust, vapours.

Hygiene measures : Wash Wash skin with mild soap and water thoroughly after hand

: Wash Wash skin with mild soap and water thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before

ISE

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Direct

sunlight, Heat sources. Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

Maximum storage period : 36 months Shelf life to guarantee the quality and properties of the product; After this

period, it is recommended to control organoleptic and physicochemical properties before

using the raw material.

Storage temperature : 18 (10 - 25) °C

Storage area : Store in a well-ventilated place. Keep away from any flames or sparking source. Keep in

the dark. Store away from heat.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear appropriate mask

Other information:

Do not eat, drink or smoke during use.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Liquid mobile. Clear.
Colour : light yellow. Yellow.

Odour : characteristic. herbaceous. Floral. sweet.

Odour threshold : No data available pH : No data available Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available Freezing point : No data available Boiling point : No data available : No data available

Flash point : 93 °C

: No data available Auto-ignition temperature Decomposition temperature : No data available Flammability (solid, gas) : Non flammable. Vapour pressure : No data available : No data available Relative vapour density at 20 °C : 0.884 (0.88 - 0.894) Relative density Solubility : Insoluble in water. Log Pow : No data available Viscosity, kinematic : No data available : No data available Viscosity, dynamic Explosive properties : No data available Oxidising properties : No data available : No data available **Explosive limits**

9.2. Other information

Refractive index : 1.474 (1.47 - 1.478)

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

PALMAROSA OIL (84649-81-0)

LD50 oral rat	4900 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

GERANIOL (106-24-1)

GERANIOL (100-24-1)	
LD50 oral rat	3600 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

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GERANYL ACETATE (105-87-3)		
LD50 oral rat	6330 mg/kg	
, Dermal, Guinea pig	= 100 mg (24 Hours, May cause moderate irritation.)	
Skin irritation, Dermal, rabbit	= 100 mg (24 Hours, Notes to physician : Risk of severe skin irritation)	

LINALOOL (78-70-6)	
LD50 oral rat	2790 mg/kg
LD50 oral	3120 mg/kg LD50 oral mouse
LD50 dermal rabbit	5610 mg/kg

FARNESOL (4602-84-0)	
LD50 oral rat	6000 mg/kg
LD50 oral	7400 mg/kg mouse
LD50 dermal rabbit	> 5000 mg/kg

CITRAL (5392-40-5)	
LD50 oral rat	4960 mg/kg
LD50 oral	6000 mg/kg LD50 oral mouse
LD50 dermal rabbit	2550 mg/kg

D-LIMONENE (5989-27-5)		
LD50 oral rat	4400 mg/kg	
LD50 dermal rabbit	> 5000 mg/kg	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye damage.	
Respiratory or skin sensitisation	: May cause an allergic skin reaction.	
Germ cell mutagenicity	: Not classified	
Additional information	: Based on available data, the classification criteria are not met	
Carcinogenicity	: Not classified	
Additional information	: Based on available data, the classification criteria are not met	
D-I IMONENE (5080-27-5)		

D-LIMONENE (5989-27-5)	
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-single exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-repeated exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

: Based on available data, the classification criteria are not met Additional information Potential adverse human health effects and : Based on available data, the classification criteria are not met.

: Not classified

symptoms

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term

: Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, long-term

(chronic)

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830		
GERANIOL (106-24-1)		
LC50 fish 1	env. 22 mg/l Brachydanio rerio (zebra-fish) - 96h	
EC50 Daphnia 1	10.8 mg/l EC50 48h - Daphnia magna [mg/l]	
EC50 other aquatic organisms 1	13.1 mg/l Desmodesmus subspicatus (green algae) -72h	
LINALOOL (78-70-6)		
LC50 fish 1	27.8 mg/l EC 50 (fish : rainbow trout) : - 96h	
LC50 other aquatic organisms 1	88.3 mg/l Desmodesmus subspicatus (green algae) - 96h	
EC50 Daphnia 1	59 mg/l EC50 48h - Daphnia magna [mg/l]	
NOEC chronic fish	3.5 mg/l Oncorhynchus mykiss (Rainbow trout)- 96h	
NOEC chronic crustacea	25 mg/l daphnia - 48h	
FARNESOL (4602-84-0)		
LC50 fish 1	1.8 mg/l Oncorhynchus mykiss (Rainbow trout) -96h	
EC50 Daphnia 1	2.2 mg/l EC50 48h - Daphnia magna [mg/l]	
2000 Варина 1	2.2 mg/r E000 4011 - Daprinia magna [mg/r]	
D-LIMONENE (5989-27-5)		
LC50 fish 1	0.702 mg/l Pimephales promela (fathead minnow) -96h	
EC50 Daphnia 1	69.6 daphnia - 48h	
12.2. Persistence and degradability		
PALMAROSA OIL (84649-81-0)		
Persistence and degradability	May cause long-term adverse effects in the environment.	
GERANIOL (106-24-1)		
Persistence and degradability	Readily biodegradable. Not established.	
Biodegradation	80 - 100 % aérobic, Exposure duration 3 days	
GERANYL ACETATE (105-87-3)		
GERARTE AGETATE (103-01-3)		
Porsistones and degradability	May cause long term adverse effects in the environment	
Persistence and degradability	May cause long-term adverse effects in the environment.	
Persistence and degradability LINALOOL (78-70-6)	May cause long-term adverse effects in the environment.	
	May cause long-term adverse effects in the environment. Readily biodegradable. Not established.	
LINALOOL (78-70-6)		
LINALOOL (78-70-6) Persistence and degradability	Readily biodegradable. Not established.	
LINALOOL (78-70-6) Persistence and degradability	Readily biodegradable. Not established.	
LINALOOL (78-70-6) Persistence and degradability Biodegradation	Readily biodegradable. Not established.	
LINALOOL (78-70-6) Persistence and degradability Biodegradation CITRAL (5392-40-5) Persistence and degradability	Readily biodegradable. Not established. 100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B	
LINALOOL (78-70-6) Persistence and degradability Biodegradation CITRAL (5392-40-5) Persistence and degradability D-LIMONENE (5989-27-5)	Readily biodegradable. Not established. 100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B Not established.	
LINALOOL (78-70-6) Persistence and degradability Biodegradation CITRAL (5392-40-5) Persistence and degradability D-LIMONENE (5989-27-5) Persistence and degradability	Readily biodegradable. Not established. 100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B	
LINALOOL (78-70-6) Persistence and degradability Biodegradation CITRAL (5392-40-5) Persistence and degradability D-LIMONENE (5989-27-5) Persistence and degradability 12.3. Bioaccumulative potential	Readily biodegradable. Not established. 100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B Not established.	
LINALOOL (78-70-6) Persistence and degradability Biodegradation CITRAL (5392-40-5) Persistence and degradability D-LIMONENE (5989-27-5) Persistence and degradability 12.3. Bioaccumulative potential PALMAROSA OIL (84649-81-0)	Readily biodegradable. Not established. 100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B Not established. May cause long-term adverse effects in the environment.	
LINALOOL (78-70-6) Persistence and degradability Biodegradation CITRAL (5392-40-5) Persistence and degradability D-LIMONENE (5989-27-5) Persistence and degradability 12.3. Bioaccumulative potential	Readily biodegradable. Not established. 100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B Not established.	
LINALOOL (78-70-6) Persistence and degradability Biodegradation CITRAL (5392-40-5) Persistence and degradability D-LIMONENE (5989-27-5) Persistence and degradability 12.3. Bioaccumulative potential PALMAROSA OIL (84649-81-0)	Readily biodegradable. Not established. 100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B Not established. May cause long-term adverse effects in the environment.	
LINALOOL (78-70-6) Persistence and degradability Biodegradation CITRAL (5392-40-5) Persistence and degradability D-LIMONENE (5989-27-5) Persistence and degradability 12.3. Bioaccumulative potential PALMAROSA OIL (84649-81-0) Bioaccumulative potential	Readily biodegradable. Not established. 100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B Not established. May cause long-term adverse effects in the environment.	
LINALOOL (78-70-6) Persistence and degradability Biodegradation CITRAL (5392-40-5) Persistence and degradability D-LIMONENE (5989-27-5) Persistence and degradability 12.3. Bioaccumulative potential PALMAROSA OIL (84649-81-0) Bioaccumulative potential GERANIOL (106-24-1)	Readily biodegradable. Not established. 100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B Not established. May cause long-term adverse effects in the environment. Not established.	

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GERANYL ACETATE (105-87-3)	
Log Kow	4.04
Bioaccumulative potential	Not established.

LINALOOL (78-70-6)	
Log Pow	2.97
Bioaccumulative potential	Not established.

CITRAL (5392-40-5)	
Bioaccumulative potential	Not established.

D-LIMONENE (5989-27-5)	
Bioaccumulative potential	Not established.
12.4. Mobility in soil	

4.4.4. LIM number

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available 12.6. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN HUHBEI	
UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No. (IATA)	: Not applicable
UN-No. (ADN)	: Not applicable
UN-No. (RID)	: Not applicable

14.2. UN proper shipping name

: Not applicable Proper Shipping Name (ADR) Proper Shipping Name (IMDG) : Not applicable Proper Shipping Name (IATA) : Not applicable Proper Shipping Name (ADN) : Not applicable : Not applicable Proper Shipping Name (RID)

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

RID

Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Transport hazard class(es) (ADN)

: Not applicable Packing group (ADR) Packing group (IMDG) : Not applicable Packing group (IATA) : Not applicable

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: Not applicable

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Packing group (ADN) : Not applicable Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

No data available

Transport by sea

No data available

Air transport

No data available

Inland waterway transport

No data available

Rail transport

No data available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:			
Reference code	Applicable on	Entry title or description	
3(a)	D-LIMONENE Substances or mixtures fulfilling the criteria for any of the follow or categories set out in Annex I to Regulation (EC) No 1272/20 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 2.14 categories 1 and 2, 2.15 types A to F		
3(b)	PALMAROSA OIL ; GERANYL ACETATE ; LINALOOL ; FARNESOL ; D-LIMONENE ; GERANIOL ; CITRAL	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	
3(c)	PALMAROSA OIL ; GERANYL ACETATE ; D-LIMONENE	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	
40.	D-LIMONENE	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	

PALMAROSA OIL is not on the REACH Candidate List

PALMAROSA OIL is not on the REACH Annex XIV List

PALMAROSA OIL is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

PALMAROSA OIL is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

Germany

Reference to AwSV : Water hazard class (WGK) 1, Slightly hazardous to water (Classification according to

AwSV; ID No. 5826)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16

December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H- and EUH-statements:	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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