

Safety Data Sheet

acc. to The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)

DURALINE® 750 red

Version number: 1.0

First version: 2025-06-10

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

1.1 Product identifier

Trade name **DURALINE® 750 red**
Floor marking spray
750 ml spray can

Product number 114003

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

Relevant identified uses Industrial and commercial applications
Consumer uses
Floor marking paint

1.3 Details of the supplier of the safety data sheet

DURABLE Hunke & Jochheim GmbH & Co. KG
Westfalenstraße 77 – 79
58636 Iserlohn
Germany

Telephone: +49 (0) 2371 662 0
Telefax: +49 (0) 2371 662 221
e-mail: durable@durable.de
Website: www.durable.de

e-mail (competent person) sdb@csb-compliance.com

Please do not use this e-mail address to ask for the latest safety data sheet. For this purpose contact : DURABLE Hunke & Jochheim GmbH & Co. KG
Telephone: +49 (0) 2371 662 350
e-Mail: durable-clean@durable.de

1.4 Emergency telephone number

Poison centre		
Country	Name	Telephone
Germany	Giftnotruf Berlin	+49 30 19240

As above or nearest toxicological information centre.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (acc. to GB CLP)

DURALINE® 750 red

Version number: 1.0

First version: 2025-06-10

Classification				
Section	Hazard class	Category	Hazard class and category	Hazard statement
2.3	aerosols	1	Aerosol 1	H222,H229
3.8D	specific target organ toxicity - single exposure (narcotic effects, drowsiness)	3	STOT SE 3	H336

For full text of abbreviations: see SECTION 16

2.2 Label elements

Labelling (acc. to GB CLP)

Signal word danger

Pictograms

GHS02, GHS07



Hazard statements

H222

Extremely flammable aerosol.

H229

Pressurised container: May burst if heated.

H336

May cause drowsiness or dizziness.

Precautionary statements

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P211

Do not spray on an open flame or other ignition source.

P251

Do not pierce or burn, even after use.

P410+P412

Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

Supplemental hazard information

EUH066

Repeated exposure may cause skin dryness or cracking.

EUH208

Contains fatty acids, C18-unsatd., trimers, compds. with oleylamine, fatty acids, tall-oil, compds. with oleylamine. May produce an allergic reaction.

EUH211

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Additional labelling according to Directive 75/324/EEC relating to aerosol dispensers

Symbols:



DURALINE® 750 red

Version number: 1.0

First version: 2025-06-10

Hazardous ingredients for labelling

hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics,
<2% aromatics
2-methoxy-1-methylethyl acetate
hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics,
<2% aromatics
ethyl acetate

Additional labelling requirements

see section 15 of the safety data sheet

2.3 Other hazards

Do not use in confined spaces.

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture).

3.2 Mixtures

Description of the mixture

Hazardous ingredients					
Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
butane	CAS No 106-97-8 EC No 203-448-7 Index No 601-004-00-0	10 – < 20	Flam. Gas 1A / H220 Press. Gas C / H280		C U(b)
hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	EC No 919-857-5	5 – < 10	Flam. Liq. 3 / H226 STOT SE 3 / H336 Asp. Tox. 1 / H304 EUH066	  	P(b)
titanium dioxide	CAS No 13463-67-7 EC No 236-675-5 Index No 022-006-00-2	5 – < 10	Carc. 2 / H351		10(a)
2-methoxy-1-methyl-ethyl acetate	CAS No 108-65-6 EC No 203-603-9	5 – < 10	Flam. Liq. 3 / H226 STOT SE 3 / H336	 	-

DURALINE® 750 red

Version number: 1.0

First version: 2025-06-10

Hazardous ingredients					
Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
	Index No 607-195-00-7				
hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	EC No 927-241-2	5 - < 10	Flam. Liq. 3 / H226 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 3 / H412 EUH066	  	-
ethyl acetate	CAS No 141-78-6 EC No 205-500-4 Index No 607-022-00-5	3 - < 5	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336 EUH066	 	-
fatty acids, C18-unsatd., trimers, compds. with oleylamine	CAS No 147900-93-4 EC No 604-612-4	0.3 - < 1	Acute Tox. 4 / H302 Skin Sens. 1 / H317 STOT RE 2 / H373 Aquatic Chronic 2 / H411	  	-
fatty acids, tall-oil, compds. with oleylamine	CAS No 85711-55-3 EC No 288-315-1	0.01 - < 0.1	Eye Dam. 1 / H318 Skin Sens. 1A / H317 STOT RE 2 / H373	  	-

Notes

10(a): Classification as a carcinogen by inhalation: Mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter $\leq 10 \mu\text{m}$.

C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

P(b): The classification as a carcinogen or mutagen is not required. The substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-P260-P262- P301 + P310-P331 shall apply

U(b): The allocation to the group 'compressed gas' is based on the physical state in which the gas is packaged

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
fatty acids, C18-unsatd., trimers, compds. with oleylamine	-	-	>1,570 mg/kg	oral

Remarks

For full text of H-phrases: see SECTION 16

SECTION 4: First aid measures

4.1 Description of first aid measures

DURALINE® 750 red

Version number: 1.0

First version: 2025-06-10

General notes

Remove affected person from the danger area and lay down.
Do not leave affected person unattended.
Take off immediately all contaminated clothing.
In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

Provide fresh air.
If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion

Rinse mouth. Do not induce vomiting.
Get medical advice/attention if you feel unwell.

Notes for the doctor

None.

4.2 Most important symptoms and effects, both acute and delayed

Narcotic effects.
Repeated exposure may cause skin dryness or cracking.

4.3 Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

water spray, alcohol resistant foam, fire extinguishing powder

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Combustible.
Hazardous decomposition products: Section 10.
In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture.

Hazardous combustion products

carbon monoxide (CO), carbon dioxide (CO₂)

5.3 Advice for firefighters

Keep containers cool with water spray.
In case of fire and/or explosion do not breathe fumes.
Co-ordinate firefighting measures to the fire surroundings.
Do not allow firefighting water to enter drains or water courses.
Collect contaminated firefighting water separately.
Fight fire with normal precautions from a reasonable distance.

DURALINE® 750 red

Version number: 1.0

First version: 2025-06-10

Special protective equipment for firefighters

Wear self-contained breathing apparatus

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

Ventilate affected area.

Eliminate all ignition sources if safe to do so.

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water.

Retain contaminated washing water and dispose of it.

If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Collect spillage.

Absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.).

Other information relating to spills and releases

Place in appropriate containers for disposal.

Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5.

Personal protective equipment: see section 8.

Incompatible materials: see section 10.

Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes.

Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation.

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharge.

Measures to protect the environment

Avoid release to the environment.

Do not empty into drains; dispose of this material and its container at hazardous or special waste collection point.

DURALINE® 750 red

Version number: 1.0

First version: 2025-06-10

Advice on general occupational hygiene

Do not eat, drink and smoke in work areas.

Wash hands after use.

Preventive skin protection (barrier creams/ointments) is recommended.

Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

Explosive atmospheres

Do not expose to temperatures exceeding 50 °C.

Protect from sunlight.

Flammability hazards

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Do not spray on an open flame or other ignition source.

Protect from sunlight.

Incompatible substances or mixtures

Incompatible materials: see section 10.

Do not pierce or burn, even after use.

Protect against external exposure, such as

heat

Consideration of other advice

Keep away from food, drink and animal feedingstuffs.

Ventilation requirements

Provision of sufficient ventilation.

Specific designs for storage rooms or vessels

Keep container tightly closed and in a well-ventilated place.

Keep cool.

Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)									
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Notation	Source
EU	2-methoxy-1-methylethyl acetate	108-65-6	IOELV	50	275	100	550	H	2000/39/EC
EU	ethyl acetate	141-78-6	IOELV	200	734	400	1,468	-	2017/164/EU
GB	cycloalkanes, >C7	-	WEL	-	800	-	-	-	EH40/2005
GB	normal and	-	WEL	-	1,200	-	-	-	EH40/2005

DURALINE® 750 red

Version number: 1.0

First version: 2025-06-10

Occupational exposure limit values (Workplace Exposure Limits)									
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Notation	Source
	branched chain alkanes (>C7)								
GB	hydrocarbon mixture (RCP method)	-	WEL	-	1,200	-	2,400	-	EH40/2005
GB	butane	106-97-8	WEL	600	1,450	750	1,810	-	EH40/2005
GB	1-methoxy-2-propyl acetate	108-65-6	WEL	50	274	100	548	H	EH40/2005
GB	titanium dioxide	13463-67-7	WEL	-	10	-	-	i	EH40/2005
GB	titanium dioxide	13463-67-7	WEL	-	4	-	-	r	EH40/2005
GB	ethyl acetate	141-78-6	WEL	200	734	400	1,468	-	EH40/2005

Notation

H absorbed through the skin
 i inhalable fraction
 r respirable fraction
 STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
 TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Human health values

Relevant DNELs of components						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	DNEL	871 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	DNEL	77 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	DNEL	871 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	DNEL	77 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
titanium dioxide	13463-67-7	DNEL	1.25 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
2-methoxy-1-methyl-	108-65-6	DNEL	275 mg/m³	human, inhalatory	worker (industry)	chronic - systemic

DURALINE® 750 red

Version number: 1.0

First version: 2025-06-10

Relevant DNELs of components						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
ethyl acetate						effects
2-methoxy-1-methyl-ethyl acetate	108-65-6	DNEL	796 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
ethyl acetate	141-78-6	DNEL	734 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
ethyl acetate	141-78-6	DNEL	734 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
ethyl acetate	141-78-6	DNEL	63 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
fatty acids, C18-unsatd., trimers, compds. with oleylamine	147900-93-4	DNEL	0.024 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
fatty acids, tall-oil, compds. with oleylamine	85711-55-3	DNEL	0.024 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Environmental values

Relevant PNECs of components				
Name of substance	CAS No	Endpoint	Threshold level	Environmental compartment
2-methoxy-1-methylethyl acetate	108-65-6	PNEC	0.635 mg/l	freshwater
2-methoxy-1-methylethyl acetate	108-65-6	PNEC	0.064 mg/l	marine water
2-methoxy-1-methylethyl acetate	108-65-6	PNEC	100 mg/l	sewage treatment plant (STP)
2-methoxy-1-methylethyl acetate	108-65-6	PNEC	3.29 mg/kg	freshwater sediment
2-methoxy-1-methylethyl acetate	108-65-6	PNEC	0.329 mg/kg	marine sediment
2-methoxy-1-methylethyl acetate	108-65-6	PNEC	0.29 mg/kg	soil
ethyl acetate	141-78-6	PNEC	0.24 mg/l	freshwater
ethyl acetate	141-78-6	PNEC	0.024 mg/l	marine water
ethyl acetate	141-78-6	PNEC	650 mg/l	sewage treatment plant (STP)
ethyl acetate	141-78-6	PNEC	1.15 mg/kg	freshwater sediment
ethyl acetate	141-78-6	PNEC	0.115 mg/kg	marine sediment
ethyl acetate	141-78-6	PNEC	0.148 mg/kg	soil
fatty acids, C18-unsatd., trimers, compds. with oleylamine	147900-93-4	PNEC	6 µg/l	freshwater
fatty acids, C18-unsatd., trimers, compds. with oleylamine	147900-93-4	PNEC	0.6 µg/l	marine water
fatty acids, C18-unsatd., trimers, compds. with oleylamine	147900-93-4	PNEC	2.46 mg/kg	freshwater sediment
fatty acids, C18-unsatd., trimers, compds. with oleylamine	147900-93-4	PNEC	0.25 mg/kg	marine sediment

DURALINE® 750 red

Version number: 1.0

First version: 2025-06-10

Relevant PNECs of components				
Name of substance	CAS No	Endpoint	Threshold level	Environmental compartment
fatty acids, C18-unsatd., trimers, compds. with oleylamine	147900-93-4	PNEC	0.28 mg/kg	soil

8.2 Exposure controls

Appropriate engineering controls

Use local and general ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection. (EN 166)

Hand protection

Protective gloves		
Material	Material thickness	Breakthrough times of the glove material
NBR: acrylonitrile-butadiene rubber	≥ 0,4 mm	>10 minutes (permeation: level 1)
PVA: polyvinyl alcohol	≥ 0,5 mm	>10 minutes (permeation: level 1)

Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374.

Check leak-tightness/impermeability prior to use.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Body protection

Protective clothing against liquid chemicals.

(EN 13832, EN 340, EN 13034, EN 14605).

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

During spraying wear suitable respiratory equipment.

(EN 136, EN 140, EN 14387, EN 143, EN 149).

Environmental exposure controls

Use appropriate container to avoid environmental contamination.

Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid, (spray aerosol)
Colour	red
Odour	like solvents aromatic
Melting point/freezing point	not applicable

DURALINE® 750 red

Version number: 1.0

First version: 2025-06-10

Boiling point or initial boiling point and boiling range	not determined
Flammability	flammable aerosol in accordance with GHS criteria
Lower and upper explosion limit	not determined
Flash point	not determined
Auto-ignition temperature	not applicable (aerosol)
Decomposition temperature	not relevant
pH (value)	not determined
Viscosity	not relevant (aerosol)
Solubility(ies)	
Water solubility	not determined
Partition coefficient n-octanol/water (log value)	not determined
Vapour pressure	not determined
Density and/or relative density	
Density	<1 g/cm³ at 20 °C
Relative vapour density	information on this property is not available
Particle characteristics	not relevant (aerosol)

9.2 Other information

Information with regard to physical hazard classes	there is no additional information
Other safety characteristics	

Propellant content 30 %

SECTION 10: Stability and reactivity

10.1 Reactivity

Risk of ignition.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

DURALINE® 750 red

Version number: 1.0

First version: 2025-06-10

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 Do not spray on an open flame or other ignition source.
 Contains gas under pressure; may explode if heated.
 Protect from sunlight.

10.5 Incompatible materials

oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.
 Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Classification procedure

If not otherwise specified the classification is based on:
 Ingredients of the mixture (additivity formula).

Classification acc. to GHS

Acute toxicity

The classification criteria for this hazard class are not met.

Acute toxicity of components

Acute toxicity estimate (ATE) of components

Name of substance	CAS No	Exposure route	ATE
fatty acids, C18-unsatd., trimers, compds. with oleylamine	147900-93-4	oral	>1,570 mg/kg

Acute toxicity of components

Name of substance	CAS No	Exposure route	Endpoint	Value	Species	Method	Source
hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	oral	LD0	>15,000 mg/kg	rat	OECD Guideline 401	ECHA
hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	dermal	LD0	≥3,160 mg/kg	rabbit	OECD Guideline 402	ECHA
hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	inhalation: dust/mist	LC50	≥6,100 mg/m³/4h	rat	OECD Guideline 403	ECHA
hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	oral	LD0	>15,000 mg/kg	rat	OECD Guideline 401	ECHA
hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	dermal	LD0	>2,000 mg/kg	rat	OECD Guideline 402	ECHA

DURALINE® 750 red

Version number: 1.0

First version: 2025-06-10

Acute toxicity of components							
Name of substance	CAS No	Exposure route	Endpoint	Value	Species	Method	Source
titanium dioxide	13463-67-7	oral	LD50	>5,000 mg/kg	rat	-	ECHA Chem
titanium dioxide	13463-67-7	inhala-tion: dust/mist	LC0	≥5.09 mg/l /4h	rat, male	-	ECHA
2-methoxy-1-methylethyl acetate	108-65-6	oral	LD50	6,190 mg/kg	rat	OECD Guideline 401	ECHA
2-methoxy-1-methylethyl acetate	108-65-6	dermal	LD0	>5,000 mg/kg	rat	OECD Guideline 402	ECHA
ethyl acetate	141-78-6	oral	LD50	5,620 mg/kg	rat	-	GESTIS
ethyl acetate	141-78-6	dermal	LD50	>20,000 mg/kg	rabbit	-	ECHA
ethyl acetate	141-78-6	inhala-tion: va-pour	LC0	>22.5 mg/l /4h	rat	-	ECHA
fatty acids, C18-unsatd., trimers, compds. with oleylamine	147900-93-4	oral	LD50	>1,570 mg/kg	rat	-	-
fatty acids, tall-oil, compds. with oleylamine	85711-55-3	oral	LD50	>2,000 mg/kg	rat	-	-

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.

Respiratory or skin sensitisation

Contains fatty acids, C18-unsatd., trimers, compds. with oleylamine, fatty acids, tall-oil, compds. with oleylamine. May produce an allergic reaction.

Germ cell mutagenicity

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

Carcinogenicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Reproductive toxicity

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

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

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

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

DURALINE® 750 red

Version number: 1.0

First version: 2025-06-10

Other information

Repeated exposure may cause skin dryness or cracking.

11.2 Information on other hazards

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity (acute)

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

Aquatic toxicity (acute) of components

Name of substance	CAS No	Endpoint	Exposure time	Value	Species	Method	Source
butane	106-97-8	LC50	96 h	24.11 mg/l	fish	Qsar	ECHA
butane	106-97-8	LC50	48 h	14.22 mg/l	aquatic invertebrates	Qsar	ECHA
butane	106-97-8	EC50	96 h	7.71 mg/l	green algae	(Q)SAR	ECHA
hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	LL50	96 h	>10 – <30 mg/l	rainbow trout (<i>Oncorhynchus mykiss</i>)	OECD Guideline 203	ECHA
hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	EL50	48 h	>22 – <46 mg/l	daphnia magna	OECD Guideline 202	ECHA
hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	EL50	72 h	1,000 mg/l	algae (<i>pseudokirchneriella subcapitata</i>)	OECD Guideline 201	ECHA
hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	EL50	48 h	1.065 mg/l	Tetrahymena pyriformis	Qsar	ECHA
hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	LL50	96 h	>1,000 mg/l	rainbow trout (<i>Oncorhynchus mykiss</i>)	OECD Guideline 203	ECHA
hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	LL50	48 h	>1,000 mg/l	daphnia magna	OECD Guideline 202	ECHA
hydrocarbons,	-	EL50	48 h	>1,000 mg/l	daphnia magna	OECD	ECHA

DURALINE® 750 red

Version number: 1.0

First version: 2025-06-10

Name of substance	CAS No	Endpoint	Exposure time	Value	Species	Method	Source
C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics						Guideline 202	
hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	EL50	72 h	>1,000 mg/l	algae (raphidocelis subcapitata)	OECD Guideline 201	ECHA
hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	EL50	48 h	0.95 mg/l	Tetrahymena pyriformis	Qsar	ECHA
titanium dioxide	13463-67-7	EC50	48 h	>100 mg/l	daphnia magna	-	ECHA Chem
titanium dioxide	13463-67-7	ErC50	72 h	>100 mg/l	algae (raphidocelis subcapitata)	OECD Guideline 201	ECHA Chem
2-methoxy-1-methylethyl acetate	108-65-6	LC50	96 h	100 – 180 mg/l	rainbow trout (Oncorhynchus mykiss)	OECD Guideline 203	ECHA
2-methoxy-1-methylethyl acetate	108-65-6	EC50	48 h	>500 mg/l	daphnia magna	EU method C.2	ECHA
2-methoxy-1-methylethyl acetate	108-65-6	ErC50	96 h	>1,000 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA
ethyl acetate	141-78-6	LC50	96 h	230 mg/l	fathead minnow (Pimephales promelas)	-	ECHA
ethyl acetate	141-78-6	EC50	96 h	220 mg/l	fathead minnow (Pimephales promelas)	-	ECHA
fatty acids, C18-unsatd., trimers, compds. with oleylamine	147900-93-4	LL50	96 h	>100 mg/l	rainbow trout (Oncorhynchus mykiss)	-	-
fatty acids, C18-unsatd., trimers, compds. with oleylamine	147900-93-4	EL50	48 h	>100 mg/l	daphnia magna	-	-
fatty acids, C18-unsatd., trimers, compds. with oleylamine	147900-93-4	EL50	72 h	4 mg/l	algae (pseudokirchneriella subcapitata)	-	-
fatty acids, tall-oil, compds. with oleylamine	85711-55-3	LL50	96 h	>100 mg/l	rainbow trout (Oncorhynchus mykiss)	-	-
fatty acids, tall-oil, compds. with oleylamine	85711-55-3	EL50	48 h	15.2 mg/l	daphnia magna	-	-

DURALINE® 750 red

Version number: 1.0

First version: 2025-06-10

Name of substance	CAS No	Endpoint	Exposure time	Value	Species	Method	Source
fatty acids, tall-oil, compds. with oleylamine	85711-55-3	EL50	72 h	6 mg/l	algae (<i>pseudokirchneriella subcapitata</i>)	-	-

Aquatic toxicity (chronic)

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

Aquatic toxicity (chronic) of components

Name of substance	CAS No	Endpoint	Exposure time	Value	Species	Method	Source
butane	106-97-8	NOEC	30 d	10.01 mg/l	fish	-	ECHA Chem
hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	NOELR	28 d	0.182 mg/l	rainbow trout (<i>Oncorhynchus mykiss</i>)	Qsar	ECHA
hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	NOELR	21 d	0.317 mg/l	daphnia pulex	Qsar	ECHA
hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	NOELR	72 h	<1 mg/l	algae (<i>pseudokirchneriella subcapitata</i>)	OECD Guideline 201	ECHA
hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	NOELR	72 h	3 mg/l	algae (<i>raphidocelis subcapitata</i>)	OECD Guideline 201	ECHA
titanium dioxide	13463-67-7	EC50	3 h	>1,000 mg/l	activated sludge of a predominantly domestic sewage	OECD Guideline 209	ECHA Chem
titanium dioxide	13463-67-7	NOEC	21 d	≥2.7 mg/l	daphnia magna	OECD Guideline 202	ECHA Chem
titanium dioxide	13463-67-7	NOEC	72 h	≥100 mg/l	algae (<i>raphidocelis subcapitata</i>)	OECD Guideline 201	ECHA Chem
titanium dioxide	13463-67-7	LOEC	3 h	>1,000 mg/l	activated sludge of a predominantly domestic sewage	OECD Guideline 209	ECHA Chem
2-methoxy-1-methylethyl acetate	108-65-6	EC50	21 d	>100 mg/l	daphnia magna	OECD Guideline 211	ECHA
2-methoxy-1-methylethyl acetate	108-65-6	NOEC	21 d	≥100 mg/l	daphnia magna	OECD Guideline 211	ECHA

DURALINE® 750 red

Version number: 1.0

First version: 2025-06-10

Name of substance	CAS No	Endpoint	Exposure time	Value	Species	Method	Source
2-methoxy-1-methylethyl acetate	108-65-6	LOEC	72 h	>1,000 mg/l	algae (<i>pseudokirchneriella subcapitata</i>)	OECD Guideline 201	ECHA
2-methoxy-1-methylethyl acetate	108-65-6	growth (Eb-Cx) 10%	30 min	>1,000 mg/l	activated sludge	OECD Guideline 209	ECHA
ethyl acetate	141-78-6	NOEC	21 d	2.4 mg/l	daphnia magna	OECD Guideline 211	ECHA
ethyl acetate	141-78-6	NOEC	72 h	>100 mg/l	algae (<i>Desmodemus subspicatus</i>)	OECD Guideline 201	ECHA
fatty acids, tall-oil, compds. with oleylamine	85711-55-3	LOEC	21 d	4.6 mg/l	aquatic invertebrates	-	ECHA

12.2 Persistence and degradability

Biodegradation

Test data are not available for the complete mixture.

Degradability of components

Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	oxygen depletion	89 %	28 d	OECD Guideline 301 F	ECHA
hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	oxygen depletion	80 %	28 d	OECD Guideline 301 F	ECHA
2-methoxy-1-methylethyl acetate	108-65-6	oxygen depletion	83 %	28 d	OECD Guideline 301 F	ECHA
ethyl acetate	141-78-6	oxygen depletion	69 %	20 d	-	ECHA
fatty acids, C18-unsatd., trimers, compds. with oleylamine	147900-93-4	oxygen depletion	27 %	28 d	-	-
fatty acids, tall-oil, compds. with oleylamine	85711-55-3	oxygen depletion	87 %	28 d	-	-

Persistence

No data available.

DURALINE® 750 red

Version number: 1.0

First version: 2025-06-10

12.3 Bioaccumulative potential

Bioaccumulative potential of components

Name of substance	CAS No	BCF	Log KOW
butane	106-97-8	-	1.09 (pH value: 7, 20 °C)
hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	≥6.91 – ≤1,582	≥1.99 – ≤5.25
hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	-	≥30.85 – ≤2,626	≥3.17 – ≤6.23 (pH value: ~7, 20 °C)
2-methoxy-1-methylethyl acetate	108-65-6	-	1.2 (pH value: 6.8, 20 °C)
ethyl acetate	141-78-6	30	0.68 (pH value: 7, 25 °C)
fatty acids, C18-unsatd., trimers, compds. with oleylamine	147900-93-4	-	>5.7 (20 °C)
fatty acids, tall-oil, compds. with oleylamine	85711-55-3	-	>6.2 (pH value: 4, 25 °C)

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

12.7 Other adverse effects

No data available.

Remarks

Wassergefährdungsklasse, WGK (water hazard class): 2.

Keep away from drains, surface and ground water.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

This material and its container must be disposed of as hazardous waste.

Sewage disposal-relevant information

Do not empty into drains.

Waste treatment of containers/packagings

Completely emptied packages can be recycled.

Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions.

DURALINE® 750 red

Version number: 1.0

First version: 2025-06-10

SECTION 14: Transport information

14.1 UN number

ADR/RID	UN1950
IMDG-Code	UN1950
ICAO-TI	UN1950

14.2 UN proper shipping name

ADR/RID	AEROSOLS
IMDG-Code	AEROSOLS
ICAO-TI	Aerosols, flammable

14.3 Transport hazard class(es)

ADR/RID	2 (2.1)
IMDG-Code	2.1
ICAO-TI	2.1

14.4 Packing group

-

14.5 Environmental hazards

-

14.6 Special precautions for user

-

14.7 Maritime transport in bulk according to IMO instruments

-

14.8 Information for each of the UN Model Regulations

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). Additional information

Particulars in the transport document UN1950, AEROSOLS, 2.1, (D)

Classification code 5F

Danger label(s) 2.1



Special provisions (SP) 190, 327, 344, 625

Excepted quantities (EQ) E0

Limited quantities (LQ) 1 L

Transport category (TC) 2

Tunnel restriction code (TRC) D

International Maritime Dangerous Goods Code (IMDG) Additional information

DURALINE® 750 red

Version number: 1.0

First version: 2025-06-10

Marine pollutant

-

Danger label(s)

2.1



Special provisions (SP)

63, 190, 277, 327, 344, 381, 959

Excepted quantities (EQ)

E0

Limited quantities (LQ)

1 L

EmS

F-D, S-U

Stowage category

-

International Civil Aviation Organization (ICAO-IATA/DGR) Additional information

Danger label(s)

2.1



Special provisions (SP)

A145, A167

Excepted quantities (EQ)

E0

Limited quantities (LQ)

30 kg

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Seveso Directive

2012/18/EU (Seveso III)				
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements		Notes
P3a	flammable aerosols (containing Flam. Gas or Flam. Liq., cat. 1)	150	500	46)

Notation

46) 'flammable' aerosols category 1 or 2, containing flammable gases category 1 or 2 or flammable liquids category 1
Note: qualifying quantity = net

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

None of the ingredients are listed.

Regulation on the marketing and use of explosives precursors

None of the ingredients are listed.

Regulation on drug precursors

DURALINE® 750 red

Version number: 1.0

First version: 2025-06-10

None of the ingredients are listed.

Regulation on substances that deplete the ozone layer (ODS)

None of the ingredients are listed.

Regulation concerning the export and import of hazardous chemicals (PIC)

None of the ingredients are listed.

Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

National regulations (GB)

List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

None of the ingredients are listed

Restrictions according to GB REACH, Annex 17

Dangerous substances with restrictions (GB REACH, Annex 17)			
Name of substance	Name acc. to inventory	CAS No	Conditions of restriction
ethyl acetate	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	-	R3
ethyl acetate	flammable / pyrophoric	-	R40
hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	-	R3
hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	flammable / pyrophoric	-	R40
fatty acids, C18-unsatd., trimers, compds. with oleylamine	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	-	R3
fatty acids, tall-oil, compds. with oleylamine	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	-	R3
2-methoxy-1-methylethyl acetate	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	-	R3
2-methoxy-1-methylethyl acetate	flammable / pyrophoric	-	R40
hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	-	R3
hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	flammable / pyrophoric	-	R40
butane	flammable / pyrophoric	-	R40
propane	flammable / pyrophoric	-	R40
isobutane	flammable / pyrophoric	-	R40

Legend

R3

1. Shall not be used in:

— ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental

DURALINE® 750 red

Version number: 1.0

First version: 2025-06-10

Legend

lamps and ashtrays,
 — tricks and jokes,
 — games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
 2. Articles not complying with paragraph 1 shall not be placed on the market.
 3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
 — can be used as fuel in decorative oil lamps for supply to the general public, and,
 — present an aspiration hazard and are labelled with R65 or H304,
 4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the British Standard Specification on Decorative oil lamps (BS EN 14059) adopted by the British Standards Institute.
 5. Without prejudice to the implementation of other legislation relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
 (a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010 'Just a sip of lamp oil
 — or even sucking the wick of lamps
 — may lead to life-threatening lung damage';
 (b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter may lead to life-threatening lung damage';
 (c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.
 7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the Agency.

R40 1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:
 — metallic glitter intended mainly for decoration,
 — artificial snow and frost,
 — 'whoopee' cushions,
 — silly string aerosols,
 — imitation excrement,
 — horns for parties,
 — decorative flakes and foams,
 — artificial cobwebs,
 — stink bombs.
 2. Without prejudice to the application of other legislation on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:
 'For professional users only'.
 3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (**).
 4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.
 (***) OJ L 147, 9.6.1975, p. 40.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2000/39/EC	Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC
2017/164/EU	Commission Directive establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU

DURALINE® 750 red

Version number: 1.0

First version: 2025-06-10

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
Carc.	Carcinogenicity
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Gas	Flammable gas
Flam. Liq.	Flammable liquid
GB CLP	The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended)
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code

DURALINE® 750 red

Version number: 1.0

First version: 2025-06-10

Abbr.	Descriptions of used abbreviations
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
IOELV	Indicative occupational exposure limit value
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
LOEC	Lowest Observed Effect Concentration
log KOW	n-Octanol/water
NLP	No-Longer Polymer
NOEC	No Observed Effect Concentration
NOELR	No Observed Effect Loading Rate
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
Press. Gas	Gas under pressure
RCP	Reciprocal calculation procedure
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

Key literature references and sources for data

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended).

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended).

GB mandatory classification and labelling.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR).

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID).

International Maritime Dangerous Goods Code (IMDG).

Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties.

Health hazards.

DURALINE® 750 red

Version number: 1.0

First version: 2025-06-10

Environmental hazards.

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Responsible for the safety data sheet

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Disclaimer

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This SDS has been compiled and is solely intended for this product.