

Safety Data Sheet

according to Regulation (EC) No 1907/2006

DINITROL 755 Grey

Print date: 24.02.2016

Product code: 5281

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

1.1. Product identifier

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

Use of the substance/mixture

Adhesives, sealants

1.3. Details of the supplier of the safety data sheet

Company name: DINOL GmbH
Street: Pyrmonter Strasse 76
Place: D-32676 Luegde
Telephone: +49 (0) 5281 9829 80
Responsible Department: msds@dinol.com
Telefax: +49 (0) 5281 9829 860

1.4. Emergency telephone number: Giftnotruf Berlin: +49 30 30686 790 (Consultation in German and English)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

May cause an allergic skin reaction.

Causes serious eye irritation.

Harmful to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane

Signal word: Warning**Pictograms:**

Hazard statements

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P280 Wear protective gloves and eye/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P501 This material and its container must be disposed of as hazardous waste.

2.3. Other hazards

No information available.

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name	Quantity
	EC No	Index No
	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
2768-02-7	Vinyltrimethoxysilane	1 - < 3 %
	220-449-8	01-2119513215-52
	Flam. Liq. 3, Acute Tox. 4; H226 H332	
1760-24-3	N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane	1 - < 3 %
	217-164-6	01-2119970215-39
	Acute Tox. 4, Eye Dam. 1, Skin Sens. 1; H332 H318 H317	
-	Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-oxypoly(oxyethylene)	0.1 - < 1 %
	400-830-7	607-176-00-3
	Skin Sens. 1, Aquatic Chronic 2; H317 H411	
	Reactive mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate and methyl(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate	0.1 - < 1 %
		01-2119491304-40
	Skin Sens. 1, Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 1; H317 H400 H410	

Full text of H and EUH statements: see section 16.

Further Information

Note: Each entry in the column EC number that begins with the number "9" is - until the publication the official registration number - one specified by ECHA provisional number for the substance. The above-mentioned substance(s) in this product is (are) identified by CAS number and indeed in Countries that are not subject to the REACH Regulation, or in a regulation which is not in accordance with new naming convention for hydrocarbons have been updated.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No special measures are necessary.

After inhalation

Provide fresh air.

After contact with skin

In case of skin irritation, consult a physician.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious).
Call a physician immediately.

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

Nausea, Drowsiness,

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

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂)
Extinguishing powder
Water spray jet

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide.

5.3. Advice for firefighters

No special fire protection measures are necessary.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Special danger of slipping by leaking/spilling product.
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used.
If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep only in the original container in a cool, well-ventilated place.
Protect from moisture.

Advice on storage compatibility

Store away from foodstuffs.

7.3. Specific end use(s)

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No information available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
28553-12-0	Diisononyl phthalate	-	5		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
13463-67-7	Titanium dioxide, respirable	-	4		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

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Worker DNEL, long-term	inhalation	systemic	10 mg/m ³
Consumer DNEL, long-term	inhalation	systemic	10 mg/m ³
Consumer DNEL, long-term	oral	systemic	6,1 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	6,1 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	51,72 mg/m ³
Worker DNEL, long-term	dermal	systemic	366 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	15,3 mg/m ³
Consumer DNEL, long-term	dermal	systemic	220 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	4,4 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	6,5 mg/m ³
Worker DNEL, acute	inhalation	systemic	84,8 mg/m ³
Worker DNEL, long-term	dermal	systemic	0,93 mg/kg bw/day
Worker DNEL, acute	dermal	systemic	52,75 mg/kg bw/day
Consumer DNEL, long-term	dermal	systemic	0,47 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,47 mg/kg bw/day
2768-02-7	Vinyltrimethoxysilane		
Worker DNEL, long-term	inhalation	systemic	4,9 mg/m ³
Worker DNEL, long-term	dermal	systemic	0,69 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	1,04 mg/m ³
Consumer DNEL, acute	inhalation	local	93,4 mg/m ³
Consumer DNEL, long-term	dermal	systemic	0,3 mg/kg bw/day
Consumer DNEL, acute	dermal	local	26,9 mg/person/day
Consumer DNEL, long-term	oral	systemic	0,3 mg/kg bw/day
1760-24-3	N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane		
Worker DNEL, long-term	inhalation	systemic	35,3 mg/m ³
Worker DNEL, acute	inhalation	systemic	35,3 mg/m ³
Worker DNEL, long-term	dermal	systemic	5,0 mg/kg bw/day
Worker DNEL, acute	dermal	systemic	5,0 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	8,7 mg/m ³
Consumer DNEL, acute	inhalation	systemic	8,7 mg/m ³
Consumer DNEL, long-term	dermal	systemic	2,5 mg/kg bw/day
Consumer DNEL, acute	dermal	systemic	17,0 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	2,5 mg/kg bw/day
13463-67-7	Titanium dioxide		
Worker DNEL, long-term	inhalation	local	10 mg/m ³
Consumer DNEL, long-term	oral	systemic	700 mg/kg bw/day

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Micro-organisms in sewage treatment plants (STP)	100 mg/l
Soil	30 mg/kg
Freshwater	0,002 mg/l
Marine water	0,0002 mg/l
Freshwater sediment	10,03 mg/kg
Marine sediment	1,0 mg/kg
Secondary poisoning	33,33 mg/kg
Micro-organisms in sewage treatment plants (STP)	100 mg/l
Soil	2 mg/kg
2768-02-7	Vinyltrimethoxysilane
Freshwater	0,34 mg/l
Marine water	0,034 mg/l
Freshwater sediment	1,24 mg/kg
Marine sediment	0,12 mg/kg
Micro-organisms in sewage treatment plants (STP)	110 mg/l
Soil	0,052 mg/kg
1760-24-3	N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane
Freshwater	0,062 mg/l
Marine water	0,0062 mg/l
Freshwater sediment	0,22 mg/kg
Marine sediment	0,022 mg/kg
Micro-organisms in sewage treatment plants (STP)	25,0 mg/l
Soil	0,0085 mg/kg
13463-67-7	Titanium dioxide
Freshwater	0,184 mg/l
Marine water	0,0184 mg/l
Micro-organisms in sewage treatment plants (STP)	100 mg/l
Freshwater sediment	1000 mg/kg
Marine sediment	100 mg/kg
Soil	100 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

Protective and hygiene measures

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from food, drink and animal feedingstuffs.

When using do not eat or drink.

Eye/face protection

Eye glasses with side protection (DIN EN 166)

Hand protection

Tested protective gloves must be worn (DIN EN 374):

NBR (Nitrile rubber), Breakthrough time (maximum wearing time): 240 min.

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.

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Protective gloves have to be replaced at the first sign of deterioration.
Protect skin by using skin protective cream.

Skin protection

Protective clothing

Respiratory protection

Work in well-ventilated zones or use proper respiratory protection.
gas filtering equipment (EN 141)., Filter material/medium: A

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Paste
Colour: grey
Odour: characteristic

Test method

pH-Value: not determined

Changes in the physical state

Melting point: not determined

Initial boiling point and boiling range: >250 °C

Flash point: not applicable DIN 51755

Flammability

Solid: not applicable

Gas: not applicable

Explosive properties

not determined

Lower explosion limits: not determined

Upper explosion limits: not determined

Ignition temperature: 370 °C

Auto-ignition temperature

Solid: not applicable

Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties

not determined

Vapour pressure:
(at 20 °C) not determined

Density (at 20 °C): 1,40 g/cm³ ISO 2811

Water solubility: insoluble

Solubility in other solvents

not determined

Partition coefficient: not determined

Viscosity / dynamic:
(at 20 °C) 110000 mPa·s

Vapour density: not determined

Evaporation rate: not determined

Solvent content: 0,5 %

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9.2. Other information

Solid content: 99,5 %

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product has not been tested.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Reacts with : Oxidizing agents. Strong acid
After contact with water: Formation of: Methanol

10.4. Conditions to avoid

Protect from moisture.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

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

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CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
2768-02-7	Vinyltrimethoxysilane				
	oral	LD50 mg/kg	7340-7460	Rat	
	dermal	LD50 mg/kg	>3460-4000	Rabbit	
	inhalative (4 h) vapour	LC50	16,79 mg/l	Rat	
	inhalative aerosol	ATE	1,5 mg/l		
1760-24-3	N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane				
	oral	LD50	2995 mg/kg	Rat	
	dermal	LD50	>2000 mg/kg	Rabbit	
	inhalative vapour	ATE	11 mg/l		
	inhalative aerosol	LC50	1,49-2,44 mg/l	Rat	
-	Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)				
	oral	LD50	>5000 mg/kg	Rat	
	dermal	LD50	>2000 mg/kg	Rat	
	Reactive mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate and methyl(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate				
	oral	LD50	3230 mg/kg	Rat	

Irritation and corrosivity

Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane), (Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)), (Reactive mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate and methyl(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate)

STOT-single exposure

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

Severe effects after repeated or prolonged exposure

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.

Aspiration hazard

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

Further information

There are no data available on the preparation/mixture itself.

SECTION 12: Ecological information

12.1. Toxicity

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CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
2768-02-7	Vinyltrimethoxysilane					
	Acute fish toxicity	LC50	>100 mg/l	96 h	Brachydanio rerio (zebra-fish)	
	Acute algae toxicity	ErC50	>100 mg/l	72 h	Desmodesmus subspicatus.	
	Acute crustacea toxicity	EC50	>100 mg/l	48 h	Daphnia magna (Big water flea)	
1760-24-3	N-(2-Aminoethyl)-3-aminopropyltrimethoxysilane					
	Acute fish toxicity	LC50	>100 mg/l	96 h	Lepomis macrochirus (Bluegill)	
	Acute crustacea toxicity	EC50	87,4 mg/l	48 h	Daphnia magna (Big water flea)	
-	Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-oxypoly(oxyethylene)					
	Acute fish toxicity	LC50	2,8 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute algae toxicity	ErC50	>9 mg/l	72 h	alga	
	Acute crustacea toxicity	EC50	4,0 mg/l	48 h	Daphnia magna (Big water flea)	
	Reactive mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate and methyl(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate					
	Acute fish toxicity	LC50	0,9 mg/l	96 h	Brachydanio rerio (zebra-fish)	
	Acute algae toxicity	ErC50	1,68 mg/l		Desmodesmus subspicatus.	
	Acute crustacea toxicity	EC50	20 mg/l	48 h	Daphnia magna (Big water flea)	24h
	Crustacea toxicity	NOEC	1 mg/l	21 d	Daphnia magna (Big water flea)	
	Acute bacteria toxicity		(>100 mg/l)	3 h	Activated sludge	

12.2. Persistence and degradability

There are no data available on the mixture itself.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
	Reactive mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate and methyl(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate			
	OECD 301F; ISO 9408/EWG, C.4-D	38%	28	
	According to OECD criteria the product is not readily biodegradable but inherently biodegradable.			

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

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Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
2768-02-7	Vinyltrimethoxysilane	1,1
-	Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)	<- 1,3

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

not applicable

12.6. Other adverse effects

No information available.

Further information

There are no data available on the preparation/mixture itself.

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Dispose of waste according to applicable legislation. Do not mix with other wastes.

List of proposed waste codes/waste designations in accordance with EWC:

Waste disposal number of waste from 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
Classified as hazardous waste.

Waste disposal number of contaminated packaging

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
Classified as hazardous waste.

Contaminated packaging

Remove according to the regulations.

SECTION 14: Transport information

Land transport (ADR/RID)

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

Marine transport (IMDG)

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

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Air transport (ICAO)

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

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

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

EU regulatory information

2004/42/EC (VOC): 0,5 % (7,0 g/l)

Additional information

Observe in addition any national regulations!

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water contaminating class (D): 1 - slightly water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Relevant H and EUH statements (number and full text)

- H226 Flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H400 Very toxic to aquatic life.

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H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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