

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

**1.1. Product identifier**

Product form : Mixture  
 Product name : Carclin Foam Gel

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

**1.2.1. Relevant identified uses**

Main use category : Professional use  
 Function or use category : Cleaning/washing agents and additives

**1.2.2. Uses advised against**

No additional information available

**1.3. Details of the supplier of the safety data sheet**

Synerlogic B.V.  
 Graafsingel 22  
 6921 RT Duiven - Nederland  
 T +31 (0) 26 - 3186700

**1.4. Emergency telephone number**

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD Msida	+356 2545 6504	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification according to Regulation (EC) No. 1272/2008 [CLP] Mixtures/Substances: SDS EU 2015: According to Regulation (EU) 2015/830 (REACH Annex II)**

Flammable liquids, Category 3 H226  
 Corrosive to metals, Category 1 H290  
 Skin corrosion/irritation, Category 1 H314  
 Serious eye damage/eye irritation, Category 1 H318  
 Full text of H statements : see section 16

**Adverse physicochemical, human health and environmental effects**

Flammable liquid and vapour. May be corrosive to metals. Causes severe skin burns and eye damage. Causes serious eye damage.

**2.2. Label elements**

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]Extra labelling to displayExtra classification(s) to display**

Hazard pictograms (CLP) :



GHS02 GHS05

Signal word (CLP) :

Danger

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according to Regulation (EC) No. 1907/2006 (REACH)

Hazardous ingredients	:	sodium hydroxide; caustic soda; Tetrasodium ethylene diamine tetraacetate; Ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides; Tetradecyldimethylamine oxide
Hazard statements (CLP)	:	H226 - Flammable liquid and vapour. H290 - May be corrosive to metals. H314 - Causes severe skin burns and eye damage.
Precautionary statements (CLP)	:	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280 - Wear protective clothing, eye protection, face protection. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER, a doctor. P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
propan-2-ol; isopropyl alcohol; isopropanol	(CAS-No.) 67-63-0 (EC-No.) 200-661-7 (EC Index-No.) 603-117-00-0 (REACH-no) 01-2119457558-25	10 - 20	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Tetrasodium ethylene diamine tetraacetate	(CAS-No.) 64-02-8 (EC-No.) 200-573-9 (EC Index-No.) 607-428-00-2 (REACH-no) 01-2119486762-27	5 - 10	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Eye Dam. 1, H318 STOT RE 2, H373
Ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides	(CAS-No.) 61791-46-6 (EC-No.) 263-179-6	< 5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400
sodium hydroxide; caustic soda	(CAS-No.) 1310-73-2 (EC-No.) 215-185-5 (EC Index-No.) 011-002-00-6 (REACH-no) 01-2119457892-27	< 5	Skin Corr. 1A, H314
Tetradecyldimethylamine oxide	(CAS-No.) 3332-27-2 (EC-No.) 222-059-3 (REACH-no) 01-2119949262-37	< 5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 2, H411

#### Specific concentration limits:

Name	Product identifier	Specific concentration limits
sodium hydroxide; caustic soda	(CAS-No.) 1310-73-2 (EC-No.) 215-185-5 (EC Index-No.) 011-002-00-6 (REACH-no) 01-2119457892-27	( 0,5 =<C < 2) Skin Irrit. 2, H315 ( 0,5 =<C < 2) Eye Irrit. 2, H319 ( 2 =<C < 5) Skin Corr. 1B, H314 ( 5 =<C < 100) Skin Corr. 1A, H314

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Full text of H-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	:	Call a physician immediately. Get medical advice/attention if you feel unwell. IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	:	Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	:	Rinse skin with water/shower. Wash skin with plenty of water. Take off contaminated clothing. Take off immediately all contaminated clothing. Call a physician immediately. If skin irritation occurs: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	:	Rinse eyes with water as a precaution. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Call a physician immediately.
First-aid measures after ingestion	:	Rinse mouth. Do not induce vomiting. Call a physician immediately. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after skin contact	:	Burns.
Symptoms/effects after eye contact	:	Serious damage to eyes.
Symptoms/effects after ingestion	:	Burns.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	:	Water spray. Dry powder. Foam. Carbon dioxide.
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#### 5.2. Special hazards arising from the substance or mixture

Fire hazard	:	Flammable liquid and vapour.
Hazardous decomposition products in case of fire	:	Toxic fumes may be released.

#### 5.3. Advice for firefighters

Protection during firefighting	:	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures	:	Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid breathing dust/fume/gas/mist/vapours/spray.
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##### 6.1.2. For emergency responders

Protective equipment	:	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up	:	Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	:	Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid breathing dust/fume/gas/mist/vapours/spray.
- Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Ground/bond container and receiving equipment.
- Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store in corrosive resistant container with a resistant inner liner. Keep only in original container. Store locked up.
- Incompatible materials : Metals.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

<b>propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)</b>	
<b>DNEL/DMEL (Workers)</b>	
Acute - local effects, inhalation	500 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	888 mg/kg bodyweight/day
<b>DNEL/DMEL (General population)</b>	
Long-term - systemic effects, oral	26 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	89 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	319 mg/kg bodyweight/day
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	140,9 mg/l
PNEC aqua (marine water)	140,9 mg/l
PNEC aqua (intermittent, freshwater)	140,9 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	552 mg/kg dwt
PNEC sediment (marine water)	552 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	28 mg/kg dwt
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	2251 mg/l

#### 8.2. Exposure controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station.

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### Personal protective equipment:

Protective clothing. Gloves. Safety glasses.

Materials for protective clothing:					
Condition		Material	Standard		
Good resistance:		Synthetic material	EN 13034		
Hand protection:					
Protective gloves					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Neoprene rubber (HNBR)	6 (> 480 minutes)	0,25 mm		EN ISO 374
Reusable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	> 0,31 mm		EN ISO 374
Eye protection:					
Safety glasses					
Type	Use	Characteristics	Standard		
Safety glasses	Droplet, Fine dust, Dust	With side shields	EN 166		
Skin and body protection:					
Wear suitable protective clothing					
Respiratory protection:					
In case of insufficient ventilation, wear suitable respiratory equipment					
Device	Filter type	Condition	Standard		
Reusable half mask	Type P2, Type P3	Protection for Solid particles	EN 149		

### Personal protective equipment symbol(s):



### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	light yellow.
Odour	:	characteristic.
Odour threshold	:	No data available
pH	:	13
Relative evaporation rate (butylacetate=1)	:	No data available

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Melting point	:	Not applicable
Freezing point	:	No data available
Boiling point	:	82 °C
Flash point	:	23 - 60 °C
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	Not applicable
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	1,04
Solubility	:	No data available
Log Pow	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available
Lower explosive limit (LEL)	:	2 vol %
Upper explosive limit (UEL)	:	12 vol %

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Flammable liquid and vapour.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

metals.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 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

#### propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)

LD50 oral rat	5840 mg/kg
LD50 dermal rabbit	> 12800 mg/kg
LC50 inhalation rat (mg/l)	72,6 mg/l/4h

#### Tetrasodium ethylene diamine tetraacetate (64-02-8)

LD50 oral	1780 mg/kg bodyweight
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### Ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides (61791-46-6)

LD50 oral	> 2000 mg/kg bodyweight
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### Tetradecyldimethylamine oxide (3332-27-2)

LD50 oral rat	300 - 2000 mg/kg
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LD50 dermal rat	> 2000 mg/kg
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Skin corrosion/irritation : Causes severe skin burns and eye damage.  
pH: 13

Serious eye damage/irritation : Causes serious eye damage.  
pH: 13

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Before neutralisation, the product may represent a danger to aquatic organisms.

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

### sodium hydroxide; caustic soda (1310-73-2)

EC50 Daphnia 1	40,4 mg/l
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### propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)

LC50 fish 1	1400 mg/kg (Lepomis Macrochirus)
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EC50 Daphnia 1	2285 mg/l
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### Tetrasodium ethylene diamine tetraacetate (64-02-8)

LC50 fish 1	> 121 mg/l
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EC50 other aquatic organisms 1	625 mg/l EC50 waterflea (48 h)
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EC50 other aquatic organisms 2	2,77 mg/l IC50 algea (72 h) mg/l
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### Ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides (61791-46-6)

LC50 fish 1	0,95 mg/l
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EC50 other aquatic organisms 1	0,47 mg/l EC50 waterflea (48 h)
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EC50 other aquatic organisms 2	0,27 mg/l IC50 algea (72 h) mg/l
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### Tetradecyldimethylamine oxide (3332-27-2)

LC50 fish 1	10,3 mg/l Brachydanio Rerio
EC50 Daphnia 1	11,1 mg/l Daphnia Magna
EC50 72h algae (1)	0,19 mg/l Pseudokirchneriella Subcapitata

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

### Tetrasodium ethylene diamine tetraacetate (64-02-8)

Log Pow	-13,17
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### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods	:	Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	:	Flammable vapours may accumulate in the container.

## SECTION 14: Transport information

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

### 14.1. UN number

UN-No. (ADR)	:	UN 2920
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### 14.2. UN proper shipping name

Proper Shipping Name (ADR)	:	CORROSIVE LIQUID, FLAMMABLE, N.O.S.
Transport document description (ADR)	:	UN 2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S. (sodium hydroxide; caustic soda ; propan-2-ol; isopropyl alcohol; isopropanol), 8 (3), II, (D/E)

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR)	:	8 (3)
Danger labels (ADR)	:	8, 3



### 14.4. Packing group

Packing group (ADR)	:	II
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### 14.5. Environmental hazards

Dangerous for the environment	:	No
Other information	:	No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR)	:	CF1
Special provisions (ADR)	:	274
Limited quantities (ADR)	:	1I
Excepted quantities (ADR)	:	E2
Packing instructions (ADR)	:	P001, IBC02



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Mixed packing provisions (ADR)	:	MP15
Portable tank and bulk container instructions (ADR)	:	T11
Portable tank and bulk container special provisions (ADR)	:	TP2, TP27
Tank code (ADR)	:	L4BN
Vehicle for tank carriage	:	FL
Transport category (ADR)	:	2
Special provisions for carriage - Operation (ADR)	:	S2
Hazard identification number (Kemler No.)	:	83
Orange plates	:	



Tunnel restriction code (ADR)	:	D/E
EAC code	:	•3W
APP code	:	A(fl)

### 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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance 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.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

#### 15.1.2. National regulations

##### Germany

Reference to AwSV : Water hazard class (WGK) 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

##### Netherlands

Waterbezwaarlijkheid : 7 - Toxic to aquatic organisms

Saneringsinspanningen : B - Lozing minimaliseren; toepassen van best uitvoerbare technieken

SZW-lijst van kankerverwekkende stoffen : Ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., N-oxides is listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Ontwikkeling : None of the components are listed

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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### SECTION 16: Other information

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
vPvB	Very Persistent and Very Bioaccumulative

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.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2

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STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

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