

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

1.1. Product identifier

Product form : Mixture
 Product name : 7310 - AUTOGEAR POWER SYN 75W-90
 Product code : NS-7310

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

1.2.1. Relevant identified uses

No additional information available

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Transnational Blenders B.V. (under licence from North Sea Lubricants B.V.)
 Wieldrechtseweg 37
 3316BG Dordrecht - Netherlands
 T +31(0)78-6527652
info@tnb.nl - www.tnb.nl

1.4. Emergency telephone number

Emergency number : +31(0)78-6527652
 Monday to Friday: 09:00 - 16:00 (CET)

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 +353 1 809 2166 (public, 8am - 10pm, 7/7)	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Serious eye damage/eye irritation, Category 2 H319 Calculation method
 Sensitisation — Skin, Category 1 H317 Calculation method

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

May cause an allergic skin reaction. Causes serious eye irritation.

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) :

Warning

Hazardous ingredients :

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14- tert-alkyl ; Polysulfides, di-tert-Bu

Hazard statements (CLP) :

H317 - May cause an allergic skin reaction
 H319 - Causes serious eye irritation

Precautionary statements (CLP) :

P261 - Avoid breathing dust, fume, gas, mist, spray, vapours
 P264 - Wash hands, forearms and face thoroughly after handling
 P272 - Contaminated work clothing should not be allowed out of the workplace
 P280 - Wear protective clothing, face protection, protective gloves
 P302+P352 - IF ON SKIN: Wash with plenty of soap and water
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

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2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Polysulfides, di-tert-Bu	(CAS No) 68937-96-2 (EC no) 273-103-3 (EC index no) 01-2119540515-43 (REACH-no) 01-2119540515-43	1 - 5	Skin Sens. 1, H317 Aquatic Chronic 3, H412
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl	(EC no) 931-384-6 (EC index no) 01-2119493620-38 (REACH-no) 01-2119493620-38	1 - 5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Mineral oil substance with a Community workplace exposure limit (Note L)	(CAS No) 74869-22-0 (EC no) 278-012-2 (EC index no) 649-484-00-0	1 - 5	Asp. Tox. 1, H304
O,O,O-triphenyl phosphorothioate	(CAS No) 597-82-0 (EC no) 209-909-9	0,1 - 1	Repr. 2, H361fd Aquatic Chronic 4, H413

Note L : The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: 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.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

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

Symptoms/injuries after skin contact	: May cause an allergic skin reaction.
Symptoms/injuries after eye contact	: Eye irritation.

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.

5.2. Special hazards arising from the substance or mixture

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.

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. Avoid contact with skin and eyes. 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".

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.
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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.
Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. 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

Storage conditions : Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14- tert-alkyl

USA - ACGIH	ACGIH TWA (mg/m ³)	5
Mineral oil (74869-22-0)		
EU	IOELV TWA (mg/m ³)	5 mg/m ³
EU	IOELV STEL (mg/m ³)	10 mg/m ³
Belgium	Limit value (mg/m ³)	5 mg/m ³ 8 Hrs
Belgium	Short time value (mg/m ³)	10 mg/m ³ 15 Min
Bulgaria	OEL TWA (mg/m ³)	5 mg/m ³ 8 Hrs
Czech Republic	Expoziční limity (PEL) (mg/m ³)	10 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	5 mg/m ³ 8 Hrs
Denmark	Grænseværdie (kortvarig) (mg/m ³)	1 mg/m ³
Finland	HTP-arvo (15 min)	5 mg/m ³ 8 Hrs
Greece	OEL TWA (mg/m ³)	5 mg/m ³ 8 Hrs
Hungary	CK-érték	5 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	5 mg/m ³ 8 Hrs
Latvia	OEL TWA (mg/m ³)	5 mg/m ³ 8 Hrs
Lithuania	IPRV (mg/m ³)	1 mg/m ³ 8 Hrs
Lithuania	TPRV (mg/m ³)	3 mg/m ³ 15 Min
Netherlands	Grenswaarde TGG 8H (mg/m ³)	5 mg/m ³ 8 Hrs
Portugal	OEL TWA (mg/m ³)	5 mg/m ³ 8 Hrs
Portugal	OEL STEL (mg/m ³)	10 mg/m ³
Romania	OEL TWA (mg/m ³)	5 mg/m ³ 8 Hrs
Romania	OEL STEL (mg/m ³)	10 mg/m ³ 15 Min
Slovakia	NPHV (priemerná) (mg/m ³)	5 mg/m ³ 8 Hrs
Spain	VLA-ED (mg/m ³)	5 mg/m ³ 8 Hrs
Spain	VLA-EC (mg/m ³)	10 mg/m ³ 15 Min
Sweden	nivågränsvärde (NVG) (mg/m ³)	1 mg/m ³
Sweden	kortidsvärde (KTV) (mg/m ³)	3 mg/m ³
United Kingdom	WEL TWA (mg/m ³)	500 mg/m ³
Norway	Grenseverdier (AN) (mg/m ³)	1 mg/m ³

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Mineral oil (74869-22-0)		
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³

8.2. Exposure controls

Appropriate engineering controls	: Use adequate ventilation to keep oil mist below applicable standard. Use splash goggles when eye contact due to splashing is possible. Ocular shower with suitable liquid.
Personal protective equipment	: Gloves. Safety glasses. Protective clothing. Avoid all unnecessary exposure.
Materials for protective clothing	: Wear suitable protective clothing
Hand protection	: Neoprene or nitrile rubber gloves. Chemical resistant PVC gloves (to European standard EN 374 or equivalent). Time of penetration is to be checked with the glove producer
Eye protection	: Chemical goggles or safety glasses. Use splash goggles when eye contact due to splashing is possible. EN 166
Skin and body protection	: No special clothing/skin protection equipment is recommended under normal conditions of use. Avoid prolonged and repeated contact with skin. If repeated skin contact or contamination of clothing is likely, protective clothing should be worn
Respiratory protection	: Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment. Particle filter. EN 143



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	: No data available
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: -21 °C
Boiling point	: No data available
Flash point	: > 190 °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	: No data available
Density	: 906,4 kg/m ³
Solubility	: insoluble in water.
Log Pow	: No data available
Viscosity, kinematic	: 102 mm ² /s @40°C
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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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

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

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 : Not classified

Mineral oil (74869-22-0)	
LD50 oral (rat)	> 5000 mg/kg
LD50 dermal (rabbit)	> 5000 mg/kg
LC50 inhalation (rat) (Vapours - mg/l/4h)	> 5000 mg/l/4h

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitisation : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified
Specific target organ toxicity (repeated exposure) : Not classified

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl	
NOAEL (subacute, oral, animal/male, 28 days)	500 mg/kg bodyweight
NOAEL (subacute, oral, animal/female, 28 days)	150 mg/kg bodyweight
Aspiration hazard	: Not classified

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Viscosity, kinematic	102 mm ² /s @40°C

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl	
LC50 fish 1	24 mg/l Rainbow Trout
LC50 fish 2	8,5 mg/l Fathead Minnow
EC50 Daphnia 1	91,4 mg/l
EC50 96h algae (1)	6,4 mg/l
NOEC (acute)	3,2 mg/l 96 Hrs Rainbow Trout
NOEC chronic crustacea	0,12 mg/l 21 d Daphnia magna
NOEC chronic algae	1,7 mg/l 21 d Selenastrum caprimutum

Polysulfides, di-tert-Bu (68937-96-2)	
EC50 Daphnia 1	63 mg/l
EC50 72h algae (1)	100 mg/l

Mineral oil (74869-22-0)	
LC50 fish 1	100 mg/l
EC50 Daphnia 1	10000 mg/l
EC50 72h algae (1)	100 mg/l
NOEC chronic crustacea	10 mg/l 21 d

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12.2. Persistence and degradability

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14- tert-alkyl

Persistence and degradability	Not biodegradable.
Biodegradation	7,4 % 28 d OECD TG 301 B

Polysulfides, di-tert-Bu (68937-96-2)

Biodegradation	13 % 28 DAYS OECD TG 301 B
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Mineral oil (74869-22-0)

Biodegradation	31 % 28 Days OECD TG 301 B
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12.3. Bioaccumulative potential

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14- tert-alkyl

Log Kow	9,4 0.1 Days
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Polysulfides, di-tert-Bu (68937-96-2)

Log Kow	6 0.1 DAYS
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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.

SECTION 14: Transport information

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

14.1. UN number

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

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

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

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

RID

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

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14.4. Packing group

Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
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 73/78 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

15.1.2. National regulations

Germany

VwVwS Annex reference : Water hazard class (WGK) 3, severe hazard to waters (Classification according to VwVwS, Annex 4)

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

Netherlands

Ministry's list of carcinogens : Polysulfides, di-tert-Bu, Mineral oil are listed

Ministry's list of mutagens : Polysulfides, di-tert-Bu is listed

NON-exhaustive list of reproductive toxins - Breastfeeding : None of the components are listed

NON-exhaustive list of reproductive toxins - Fertility : None of the components are listed

NON-exhaustive list of reproductive toxins - Evolution : None of the components are listed

Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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SECTION 16: Other information

Indication of changes:

	Revision date	Modified	
	Flammability (solid, gas)	Modified	
	Supersedes	Added	
1.2	Industrial/Professional use spec	Removed	
2.1	Adverse physicochemical, human health and environmental effects	Added	
2.2	Precautionary statements (CLP)	Modified	
2.3	Other hazards not contributing to the classification	Removed	
4.1	First-aid measures after inhalation	Modified	
4.1	First-aid measures after ingestion	Modified	
4.1	First-aid measures after eye contact	Modified	
4.1	First-aid measures after skin contact	Modified	
4.1	First-aid measures general	Removed	
4.2	Symptoms/injuries after eye contact	Modified	
4.2	Symptoms/injuries after skin contact	Added	
4.2	Symptoms/injuries after inhalation	Removed	
4.3	Other medical advice or treatment	Added	
5.1	Suitable extinguishing media	Modified	
5.1	Unsuitable extinguishing media	Removed	
5.2	Hazardous decomposition products in case of fire	Added	
5.3	Protection during firefighting	Modified	
5.3	Firefighting instructions	Removed	
6.1	Protective equipment	Modified	
6.1	Emergency procedures	Modified	
6.1	Emergency procedures	Removed	
6.2	Environmental precautions	Modified	
6.3	Methods for cleaning up	Modified	
6.3	Other information	Added	
6.4	Reference to other sections (8, 13)	Modified	
7.1	Precautions for safe handling	Modified	
7.1	Hygiene measures	Modified	
7.2	Storage conditions	Modified	
7.2	Incompatible products	Removed	
7.2	Incompatible materials	Removed	
8.2	Materials for protective clothing	Added	
8.2	Skin and body protection	Added	

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8.2	Environmental exposure controls	Added	
8.2	Appropriate engineering controls	Added	
8.2	Other information	Removed	
8.2	Respiratory protection	Modified	
8.2	Personal protective equipment	Modified	
8.2	Hand protection	Modified	
8.2	Eye protection	Modified	
9.1	Melting point	Added	
9.1	Odour	Removed	
9.1	Colour	Removed	
10.1	Reactivity	Added	
10.2	Chemical stability	Modified	
10.3	Possibility of hazardous reactions	Modified	
10.4	Conditions to avoid	Modified	
10.5	Incompatible materials	Removed	
10.6	Hazardous decomposition products	Modified	
11.1	Additional information	Removed	
11.1	Additional information	Removed	
11.1	Additional information	Removed	
11.1	Additional information	Removed	
11.1	Additional information	Removed	
11.1	Additional information	Removed	
11.1	Additional information	Removed	
11.1	Potential adverse human health effects and symptoms	Removed	
12.1	Ecology - general	Added	
12.2	Persistence and degradability	Removed	
12.3	Bioaccumulative potential	Removed	
13.1	Waste treatment methods	Added	
13.1	Waste disposal recommendations	Removed	
13.1	Ecology - waste materials	Removed	
16	Abbreviations and acronyms	Added	
16	Data sources	Removed	
16	Other information	Removed	

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
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration

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LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
PNEC	Predicted No-Effect Concentration
PBT	Persistent Bioaccumulative Toxic
RID	Regulations concerning the International Carriage of Dangerous Goods by Rai
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Repr. 2	Reproductive toxicity, Category 2
Skin Sens. 1	Sensitisation — Skin, Category 1
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
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
H413	May cause long lasting harmful effects to aquatic life

SDS EU (REACH Annex II)

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