

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Mixture
Trade name : SOL 5132H

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Use of the substance/mixture : Raw material for Rubber articles

1.2.2. Uses advised against

Restrictions on use : Not available

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

Kumho Petrochemical Co.Ltd
287-1, Pyeongyeo-Dong, Yeosu-si Jeollanam-do, Korea
T +82 61 688 3060 ~ 9, F +82 61 688 3168

Supplier

TsafeE GmbH
Landwehrplatz 6, 66111 Saarbruecken, Germany
T +49 177 9166175
tsg@tsafeg.com

1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
Germany	Giftinformationszentrum-Nord der Länder Bremen, Hamburg, Niedersachsen und Schleswig-Holstein (GIZ-Nord) Universitätsmedizin Göttingen - Georg-August-Universität	Robert-Koch Straße 40 37075 Göttingen	+49 (0) 551 19240	

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Hazardous to the aquatic environment – Chronic Hazard, H412
Category 3

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

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Signal word (CLP) : -
Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP) : P273 - Avoid release to the environment.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

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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]
STYRENE/BUTADIENE COPOLYMER	CAS-No.: 9003-55-8 EC-No.: 209-151-9	99 – 99.5	Not classified
2,6-di-tert-butyl-p-cresol	CAS-No.: 128-37-0 EC-No.: 204-881-4	0.5 – 1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410 (M=1)

Comments : Monomer registered
Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation : Treat symptomatically.
Move the affected person away from the contaminated area and into the fresh air.
If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact : Wash contaminated clothing before reuse.
In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
First-aid measures after eye contact : Do not rub eyes.
Rinse eyes with water as a precaution.
Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum).
First-aid measures after ingestion : Rinse mouth thoroughly with water, Give nothing to drink.
Do not induce vomiting (irritation of the stomach possible), Ask for medical advice.

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

No additional information available

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 : Dry powder, Carbon dioxide (CO₂).
Unsuitable extinguishing media : Do not use a water jet since it may cause the fire to spread.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Could be ignited by heat, sparks or flames.
Containers could explode when heated.
Explosion hazard : Could cause toxic effects if inhaled or swallowed.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

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5.3. Advice for firefighters

- Firefighting instructions : Notify police and fire brigade as soon as possible.
Do not enter fire area without proper protective equipment, including respiratory protection.
If impossible to cool containers, withdraw fire-fighting personnel to safe area and allow fire to burn.
- Protection during firefighting : Notify fire brigade and environmental authorities.
Fight fire from safe distance and protected location.
Do not enter fire area without proper protective equipment, including respiratory protection.
Do not attempt to take action without suitable protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.
Do not touch spilled material.
Approach the release from upwind.
Only qualified personnel equipped with suitable protective equipment may intervene.
Move containers from fire area if it can be done without personal risk.

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.
Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Mechanically recover the product.
Dispose of via an authorised person/ licensed waste disposal contractor or by other suitable waste treatment techniques.
For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal.
Small spills: Use suitable disposal containers.
Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.
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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Conform to current legislation, regulations and orders.
Avoid any direct contact with the product.
Read and follow safety precautions on the solvent label and SDS.
Do not handle until all safety precautions have been read and understood.
Take all necessary technical measures to avoid or minimize the release of the product on the workplace.
Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up.
Keep cool.
Store in a well-ventilated place.
Avoid static, spark, and fire hazards.
Protect from heat and direct sunlight.
Do not heat the storage container.
Do not re-use empty containers without proper cleaning or reconditioning.

Germany

Storage class (LGK, TRGS 510) :

Joint storage table :

: LGK 13 - Non-combustible solids

LGK 1	LGK 2A	LGK 2B	LGK 3	LGK 4.1A
LGK 4.1B	LGK 4.2	LGK 4.3	LGK 5.1A	LGK 5.1B
LGK 5.1C	LGK 5.2	LGK 6.1A	LGK 6.1B	LGK 6.1C
LGK 6.1D	LGK 6.2	LGK 7	LGK 8A	LGK 8B
LGK 10	LGK 11	LGK 12	LGK 13	LGK 10-13

Joint storage not permitted for :

Joint storage with restrictions permitted for :

Joint storage permitted for :

: LGK 1, LGK 6.2, LGK 7

: LGK 4.1A, LGK 5.1C

: LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 4.3, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13

Switzerland

Storage class (LK) :

: LK 11/13 - Solids

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

2,6-di-tert-butyl-p-cresol (128-37-0)

France - Occupational Exposure Limits

Local name	2,6-Di-tert-butyl-p-crésol
VME (OEL TWA)	10 mg/m ³
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)

Germany - Occupational Exposure Limits (TRGS 900)

Local name	2,6-Di-tert-butyl-p-kresol
AGW (OEL TWA)	10 mg/m ³ (E)
Peak exposure limitation factor	4(II)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden; 11 - Summe aus Dampf und Aerosolen
Regulatory reference	TRGS900

Spain - Occupational Exposure Limits

Local name	2,6-Diterc-butil-p-cresol
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2,6-di-tert-butyl-p-cresol (128-37-0)

VLA-ED (OEL TWA)	10 mg/m ³
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2023. INSHT

United Kingdom - Occupational Exposure Limits

Local name	2,6-Di-tert-butyl-p-cresol
WEL TWA (OEL TWA)	10 mg/m ³
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

USA - ACGIH - Occupational Exposure Limits

Local name	Butylated hydroxytoluene
ACGIH OEL TWA	2 mg/m ³ (IFV - Inhalable fraction and vapor)
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2023

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.
Do not exceed the occupational exposure limits (OEL).

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses.
Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing.

Hand protection:

Protective gloves.

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8.2.2.3. Respiratory protection

Respiratory protection:

Wear a mask.
Effective dust mask.
High efficiency particulate air filter (HEPA filter).
Carefully comply with the instructions for use.
Wear suitable respiratory equipment in case of insufficient ventilation.
Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment.
In case of inadequate ventilation wear respiratory protection.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: Light ambery brown.
Odour	: Rubbers.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not available
pH	: Not available
pH solution	: Not available
Viscosity, kinematic	: Not applicable
Solubility	: Insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: 0.92
Relative vapour density at 20°C	: Not applicable
Particle size	: Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

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

Not available.

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 hazard classes as defined in Regulation (EC) No 1272/2008

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

2,6-di-tert-butyl-p-cresol (128-37-0)	
LD50 oral rat	> 6000 mg/kg Species: other: SPF-Wistar, strain Winkelmann, Paderborn, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rat	> 2000 g/kg Species: Sprague-Dawley, Sex: male/female, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation : Not available
Serious eye damage/irritation : Not available
Respiratory or skin sensitisation : Not available
Germ cell mutagenicity : Not available
Carcinogenicity : Not available

STYRENE/BUTADIENE COPOLYMER (9003-55-8)	
IARC group	3 - Not classifiable as to its carcinogenicity to humans

2,6-di-tert-butyl-p-cresol (128-37-0)	
IARC group	3 - Not classifiable as to its carcinogenicity to humans
NOAEL (chronic, oral, animal/male, 2 years)	25 mg/kg bodyweight Species: Wistar rat, Effect level: liver enzymes transient increased (F1), Guideline: other; two generation carcinogenicity study with emphasis on hepatocellular changes in F1 generation

Reproductive toxicity : Not available

2,6-di-tert-butyl-p-cresol (128-37-0)	
LOAEL (animal/male, F1)	25 mg/kg bodyweight Species: Wistar rat, Guideline: other; two generation carcinogenicity study with emphasis on hepatocellular changes in F1 generation
LOAEL (animal/female, F1)	25 mg/kg bodyweight Species: Wistar rat, Guideline: other; two generation carcinogenicity study with emphasis on hepatocellular changes in F1 generation

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2,6-di-tert-butyl-p-cresol (128-37-0)	
NOAEL (animal/male, F0/P)	500 mg/kg bodyweight Species: Wistar rat, Guideline: other; two generation carcinogenicity study with emphasis on hepatocellular changes in F1 generation
NOAEL (animal/female, F0/P)	500 mg/kg bodyweight Species: Wistar rat, Guideline: other; two generation carcinogenicity study with emphasis on hepatocellular changes in F1 generation

STOT-single exposure : Not available

STOT-repeated exposure : Not available

2,6-di-tert-butyl-p-cresol (128-37-0)	
LOAEL(oral, rat, 22 months)	25 mg/kg bw/day (acutal dose received) (Species: Wistar, Guideline: other: two generation carcinogenicity study with emphasis on hepatocellular changes in F1 generation, System: liver)
NOAEL(oral, pig, 42 days)	≥ 61 mg/kg bw/day (Species: Goland x Italian Duroc boar, Guideline: The others.)

Aspiration hazard : Not available

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not available

Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

2,6-di-tert-butyl-p-cresol (128-37-0)	
LC50 - Fish [1]	> 0.57 mg/l Source: ECHA, Species: Danio rerio, Guideline: EU Method C.1 (Acute Toxicity for Fish)
EC50 - Crustacea [1]	0.48 mg/l Species: Daphnia magna, Guideline: OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
EC50 72h - Algae [1]	> 0.4 mg/l Source: ECHA, Species: Desmodesmus subspicatus, Guideline: EU Method C.3 (Algal Inhibition test)
LOEC (chronic)	0.218 mg/l Species: Daphnia magna, Duration: 21d, Guideline: OECD Guideline 211 (Daphnia magna Reproduction Test)
NOEC (chronic)	0.023 mg/l Species: Daphnia magna, Duration: 21d, Guideline: OECD 202, part II (draft 7/1993)
NOEC chronic fish	0.053 mg/l Species: Oryzias latipes, Duration: 30d, Guideline: OECD Guideline 210 (Fish, Early-Life Stage Toxicity Test)
NOEC chronic crustacea	0.069 mg/l Species: Daphnia magna, Duration: 21d, Guideline: OECD Guideline 211 (Daphnia magna Reproduction Test)
NOEC chronic algae	1.7 mg/l Species: not available, Guideline: OECD Guideline 201 (Alga, Growth Inhibition Test)

12.2. Persistence and degradability

2,6-di-tert-butyl-p-cresol (128-37-0)	
Persistence and degradability	Not biodegradable.

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12.3. Bioaccumulative potential

2,6-di-tert-butyl-p-cresol (128-37-0)

BCF - Fish [2]	1277 l/kg Species: Cyprinus carpio, Guideline: OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)
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12.4. Mobility in soil

2,6-di-tert-butyl-p-cresol (128-37-0)

Adsorption : Organic Carbon Normalized Adsorption Coefficient (Log Koc)	4.362 Guideline: Calculation by EPI-Suite, EPA(USA)/PCKOCWIN v1.66
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12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Separate using oil separator. Recycle the material as far as possible. The generation of waste should be avoided or minimized wherever possible. Dispose of contaminated materials in accordance with current regulations. Depending on the local regulations it may be disposed of as solid waste or incinerated in a suitable installation.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
HP Code	: HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated for transport				
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

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14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

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

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

Germany

Employment restrictions	: Observe restrictions according Act on the Protection of Working Mothers (MuSchG). Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).
Water hazard class (WGK)	: WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject to the Hazardous Incident Ordinance (12. BImSchV)

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Netherlands

ABM category	: A(3) - hazardous for aquatic organisms, may have longterm hazardous effects in aquatic environment
SZW list of carcinogens	: None of the components are listed
SZW list of mutagens	: None of the components are listed
SZW list of reprotoxic substances – Breastfeeding	: None of the components are listed
SZW list of reprotoxic substances – Fertility	: None of the components are listed
SZW list of reprotoxic substances – Development	: None of the components are listed

15.2. Chemical safety assessment

No additional information available

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
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
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
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)

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Abbreviations and acronyms:	
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disruptor

Full text of H- and EUH-statements:	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

The classification complies with : ATP 12

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.