

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

### 1.1 Product identifier

Trade name: **Octocure 567 (E)**

Article number: 115600

Registration number(s):

Mixture; all substances are registered (see section 3), pre-registered or exempted from registration acc. REACH Regulation No. 1907/2006.

1.2 Relevant identified uses of the substance or mixture and uses advised against: No data.

Application of the substance / the preparation: Vulcanisation agent

### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Tiarco Chemical Europe GmbH

Am Gut Baarking 12, 46395 Bocholt (Germany)

Telefon: +49 (0)2871 23476-0 / Telefax: +49 (0)2871 23467-44

Further information obtainable from: e-mail: europeansales@trcc.com

1.4 Emergency telephone number:

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008:



health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.



environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Acute Tox. 4	H302 Harmful if swallowed.
Skin Irrit. 2	H315 Causes skin irritation.
Skin Sens. 1	H317 May cause an allergic skin reaction.

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008:

The product is classified and labelled according to the CLP regulation.

Hazard pictograms:



GHS07 GHS08 GHS09

Signal word: Warning

Hazard-determining components of labelling:

1,3-diphenylguanidine

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zinc di(benzothiazol-2-yl) disulphide  
benzothiazole-2-thiol  
butylated reaction product of p-cresol and dicyclopentadiene

**Hazard statements:**

H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H361 Suspected of damaging fertility or the unborn child.  
H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements:**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
P330 Rinse mouth.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other hazards**
**Results of PBT and vPvB assessment**

**PBT:** Not applicable.  
**vPvB:** Not applicable.

\* **SECTION 3: Composition/information on ingredients**
**3.2 Mixtures**

**Description:** Aqueous mixture of substances listed below with nonhazardous additions.

**Dangerous components:**

CAS: 7704-34-9 EINECS: 231-722-6 Reg.nr.: 01-2119487295-27-XXXX	sulfur ⚠ Skin Irrit. 2, H315	10-25%
CAS: 1314-13-2 EINECS: 215-222-5 Reg.nr.: 01-2119463881-32-XXXX	zinc oxide ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	< 12%
CAS: 155-04-4 EINECS: 205-840-3 Reg.nr.: 01-2119493020-50-XXXX	zinc di(benzothiazol-2-yl) disulphide ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317	≤ 7%
CAS: 102-06-7 EINECS: 203-002-1 Reg.nr.: 01-2119519144-47-XXXX	1,3-diphenylguanidine ⚠ Acute Tox. 3, H301; ⚠ Repr. 2, H361f; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	< 10%
CAS: 68610-51-5 EINECS: 271-867-2 Reg.nr.: 01-2119496062-39-XXXX	butylated reaction product of p-cresol and dicyclopentadiene ⚠ Repr. 2, H361; Aquatic Chronic 4, H413	2.5-10%
CAS: 14726-36-4 EINECS: 238-778-0 Reg.nr.: 01-2119543708-31-XXXX	zinc bis(dibenzylthiocarbamate) ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	< 6%
CAS: 26780-96-1 NLP: 500-051-3 Reg.nr.: 01-2119486783-23-XXXX	1,2-dihydro-2,2,4-trimethylquinoline, oligomers Aquatic Chronic 3, H412	2.5-10%

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CAS: 149-30-4 EINECS: 205-736-8 Reg.nr.: 01-2119485805-26-XXXX	benzothiazole-2-thiol ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317	≤ 1.5%
CAS: 2682-20-4 EINECS: 220-239-6	2-methyl-2H-isothiazol-3-one ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); ⚠ Skin Sens. 1A, H317 Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.0015 %	< 0.0015%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**  
Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:**  
If swallowed, rinse mouth with water (only if the person is conscious).  
Seek medical advice immediately show this material safety data sheet.
- **4.2 Most important symptoms and effects, both acute and delayed:**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed:**  
No further relevant information available.

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture:** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures:** Wear protective clothing.
- **6.2 Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.
- **6.4 Reference to other sections:**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling:** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:** No special measures required.

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- **7.2 Conditions for safe storage, including any incompatibilities:**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**  
Store dry and cool, protect from frost.  
+5 - +30°C
- **Storage class:** Storage classification: 12 Non-combustible liquids.
- **7.3 Specific end use(s):** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· <b>DNELs:</b>		
<b>1314-13-2 zinc oxide</b>		
Oral	DNEL Oral long-term systemic effects	0.83 mg/kg bw/day (general population)
Dermal	DNEL Dermal long-term systemic effects	83 mg/kg bw/day (general population) 83 mg/kg bw/day (worker)
Inhalative	DNEL Inhalation long-term systemic effects	2.5 mg/m³ (general population) 5 mg/m³ (worker)
<b>102-06-7 1,3-diphenylguanidine</b>		
Oral	DNEL Oral long-term systemic effects	0.085 mg/kg bw/day (general population)
Dermal	DNEL Dermal long-term systemic effects	0.85 mg/kg bw/day (general population) 1.7 mg/kg bw/day (worker)
Inhalative	DNEL Inhalation long-term systemic effects	0.3 mg/m³ (general population) 1.2 mg/m³ (worker)
· <b>PNECs</b>		
<b>1314-13-2 zinc oxide</b>		
NOEC/NOEL (72h)	0.105 mg/L (algae ( <i>Pseudokirchneriella subcapitata</i> )) (OECD Guideline 201 (Alga, Growth Inhibition Test))	
PNEC Acqua	0.0206 mg/L (fresh water) 0.0061 mg/L (marine water)	
PNEC Sediment	117.8 mg/kg sedimentdw (fresh water) 56.5 mg/kg sedimentdw (marine water)	
PNEC Soil	35.6 mg/kg soil dw (soil)	
<b>102-06-7 1,3-diphenylguanidine</b>		
PNEC Acqua	0.006 mg/L (fresh water) 0.0006 mg/L (marine water)	
PNEC Sediment	0.164 mg/kg sedimentdw (fresh water) 0.0164 mg/kg sedimentdw (marine water)	
PNEC Soil	0.404 mg/kg soil dw (soil)	

- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see item 7.

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· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.

· **Hand protection**



Protective gloves

· **Material of gloves:**

Rubber gloves  
(EN 374)

· **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye/face protection**

Goggles recommended during refilling  
Tightly sealed goggles  
(EN 166)

· **Body protection:** Protective work clothing

**SECTION 9: Physical and chemical properties**

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· <b>Colour:</b>	Light yellow
· <b>Odour:</b>	Characteristic
· <b>Melting point/freezing point:</b>	Undetermined.
· <b>Boiling point or initial boiling point and boiling range</b>	~ 100 (water) °C (OECD103)
· <b>Flash point:</b>	Not applicable.
· <b>Auto-ignition temperature:</b>	Product is not selfigniting.
· <b>pH at 20 °C</b>	~ 10.5 (DIN 19268)
· <b>pH-value:</b>	
· <b>Viscosity:</b>	
· <b>Dynamic at 20 °C:</b>	~ 300 mPas (Haake VT02)
· <b>Solubility</b>	
· <b>water:</b>	Fully miscible.
· <b>Density and/or relative density</b>	
· <b>Density at 20 °C:</b>	~1.3 g/cm <sup>3</sup> (OECD 109)

· **9.2 Other information:**

· **Appearance:**

· <b>Form:</b>	Fluid Dispersion
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· **Important information on protection of health and environment, and on safety.**

· **Explosive properties:** Product does not present an explosion hazard.

· **Solvent content:**

· **VOC (EC):** ~ 0.03 %

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<b>Information with regard to physical hazard classes</b>	
· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Void
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	Void

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions:** No dangerous reactions known.
- **10.4 Conditions to avoid:** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

## SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity**  
Harmful if swallowed.

<b>LD/LC50 values relevant for classification:</b>		
<b>1314-13-2 zinc oxide</b>		
Oral	LD50	15000 mg/kg (rat) (OECD Guideline 401 (Acute Oral Toxicity))
Inhalative	LC50 (4h)	5.7 mg/L (rat) (OECD Guideline 403 (Acute Inhalation Toxicity))
<b>155-04-4 zinc di(benzothiazol-2-yl) disulphide</b>		
Oral	LD50	2000 mg/kg (rat)
Dermal	LD50	7940 mg/kg (rabbit)
<b>102-06-7 1,3-diphenylguanidine</b>		
Oral	LD50	107 mg/kg (rat)
	STOT RE (NOAEL)	17 mg/kg bw/day (rat) (OECD 408)
Dermal	LD50	2000 mg/kg (rabbit) (PA OTS 79PA OTS 798.1100 (Acute Dermal Toxicity))
Irritation of eyes	Eye irritation / corrosion	irritant (rabbit) (Draize-Test)

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<b>14726-36-4 zinc bis(dibenzylthiocarbamate)</b>		
Oral	LD50	5000 mg/kg (rat)
<b>149-30-4 benzothiazole-2-thiol</b>		
Oral	LD50	2000 mg/kg (rat)
Dermal	LD50	7940 mg/kg (rabbit)

- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation**  
May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity**  
Suspected of damaging fertility or the unborn child.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**  
Repr. 2
- **11.2 Information on other hazards**

· <b>Endocrine disrupting properties</b>
None of the ingredients is listed.

**SECTION 12: Ecological information**

· **12.1 Toxicity**

· <b>Aquatic toxicity:</b>	
<b>1314-13-2 zinc oxide</b>	
LC50 (96h) (static)	0.5 mg/L (fish (Pimephales promelas))
<b>155-04-4 zinc di(benzothiazol-2-yl) disulphide</b>	
EC50 (48h)	30 mg/L (fish (Leuciscus idus))
LC50 (96h)	0.75 mg/L (fish (Oncorhynchus mykiss))
<b>102-06-7 1,3-diphenylguanidine</b>	
EC50 (48h) (static)	17 mg/L (daphnia (Daphnia magna)) (APHA 1975 US EPA Ecological Research 660/3-75009)
LC50 (96h) (static)	4.2 mg/L (fish (Pimephales promelas)) (US EPA Ecological Research series 660/3-75009)
<b>14726-36-4 zinc bis(dibenzylthiocarbamate)</b>	
EC50 (24h)	1 mg/L (daphnia (Daphnia magna))
LC50 (96h)	10 mg/L (fish (Danio rerio))
<b>149-30-4 benzothiazole-2-thiol</b>	
EC50 (48h)	0.71 mg/L (daphnia (Daphnia magna)) (OECD 202)
EC50 (96h)	0.23 mg/L (algae (Selenastrum capricornutum))
LC50 (96h)	1.6 mg/L (fish (Danio rerio))
	0.73 mg/L (fish (Oncorhynchus mykiss)) (OECD 203)
	11 mg/L (fish (Pimephales promelas)) (OECD 203)

- **12.2 Persistence and degradability:** No further relevant information available.
- **12.3 Bioaccumulative potential:** No further relevant information available.

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- **12.4 Mobility in soil:** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation:**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

**SECTION 14: Transport information**

<ul style="list-style-type: none"> <li>· <b>14.1 UN number or ID number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	UN3082
<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR, IATA</b></li> <li>· <b>IMDG</b></li> </ul>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ZINC OXIDE, ZINC DI(BENZOTHAZOL-2-YL) DISULFIDE) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ZINC OXIDE, ZINC DI(BENZOTHAZOL-2-YL) DISULFIDE), MARINE POLLUTANT
<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR</b></li> </ul>   <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	 9 (M6) Miscellaneous dangerous substances and articles. 9
<ul style="list-style-type: none"> <li>· <b>IMDG, IATA</b></li> </ul>   <ul style="list-style-type: none"> <li>· <b>Class</b></li> </ul>	 9 Miscellaneous dangerous substances and articles.

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· <b>Label</b>	9
· <b>14.4 Packing group</b> · <b>ADR, IMDG, IATA</b>	III
· <b>14.5 Environmental hazards:</b>  · <b>Marine pollutant:</b>  · <b>Special marking (ADR):</b> · <b>Special marking (IATA):</b>	Product contains environmentally hazardous substances: ZINC DI(BENZOTHAZOL-2-YL) DISULFIDE Yes Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)
· <b>14.6 Special precautions for user:</b>  · <b>Hazard identification number (Kemler code):</b> · <b>EMS Number:</b> · <b>Stowage Category</b>	Warning: Miscellaneous dangerous substances and articles. 90 F-A,S-F A
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>  · <b>Transport category</b>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3
· <b>IMDG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ZINC OXIDE, ZINC DI(BENZOTHAZOL-2-YL) DISULFIDE), 9, III

## SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **National regulations:**
- **Breakdown regulations:**  
GERMAN ORDINANCE OF FAILURE  
Annex I - No.: 9b  
Threshold for operating range to § 1 sec. 1  
- Record 1: 500000 kg  
- Record 2: 2000000 kg  
Scope: dangerous substances for the environment (risk phrases R 51/53).

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Class	Share in %
I	5.6

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### · Relevant phrases

H301 Toxic if swallowed.  
H311 Toxic in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H330 Fatal if inhaled.  
H335 May cause respiratory irritation.  
H361 Suspected of damaging fertility or the unborn child.  
H361f Suspected of damaging fertility.  
H400 Very toxic to aquatic life.  
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.  
H413 May cause long lasting harmful effects to aquatic life.

- **Contact:** e-mail: europeansales@trcc.com

### · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
ICAO: International Civil Aviation Organisation  
ADR: Accord relatif au transport international 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 Harmonised 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 (division of the American Chemical Society)  
VOC: Volatile Organic Compounds (USA, EU)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
EC50: The term half maximal effective concentration (EC50) refers to the concentration of a drug, antibody or toxicant which induces a response halfway between the baseline and maximum after some specified exposure time.  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
LOEC/LOEL: Lowest Observed Effect Concentration/Lowest Observed Effect Level.  
NOEC/NOAEL: No Observed adverse Effect Concentration/No Observed adverse Effect Level.  
STOT RE: Specific Target Organ Toxicity - Repeated Exposure.  
STOT SE: Specific Target Organ Toxicity - Single Exposure.  
REL: Recommended Exposure Limit  
BCF: Bioconcentration factor.  
GWP: Global Warming Potential  
ODP: Ozone Depletion Potential  
log Kp: Measurement of mobility of organic compounds in soils.  
Lit. 1 ECHA <http://apps.echa.europa.eu/registered/registered-sub.aspx>  
STP Sewage Treatment Plant  
PBT: Persistent, Bioaccumulative, Toxic  
vPvB: Very Persistent, Very Bioaccumulative  
DIN: German Institute for Standardization

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Acute Tox. 3: Acute toxicity – Category 3  
Acute Tox. 4: Acute toxicity – Category 4  
Acute Tox. 2: Acute toxicity – Category 2  
Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Skin Sens. 1: Skin sensitisation – Category 1  
Skin Sens. 1A: Skin sensitisation – Category 1A  
Repr. 2: Reproductive toxicity – Category 2  
Repr. 2: Reproductive toxicity – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2  
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3  
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

· \* **Data compared to the previous version altered.**