

## Ferdinand Bilstein GmbH + Co. KG

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

**febi 101150 Engine Oil 5W-30**  
**Article number: 101150, 101151, 101152, 101153, 101154**  
**UFI: Q641-V918-Q00H-C01N**

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

Engine oil

**1.2.2 Uses advised against**

None known.

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

**Company** Ferdinand Bilstein GmbH + Co. KG  
 Wilhelmstr. 47  
 58256 Ennepetal / GERMANY  
 Phone +49 2333 911-0  
 Fax +49 2333 911-444  
 Homepage www.febi.com  
 E-mail info@febi.com

**Address enquiries to****Technical information** info@febi.com**Safety Data Sheet** info@febi.com**1.4 Emergency telephone number****Advisory body** +49 (0)89-19240 (24h) (English)**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]**

Skin Sens. 1B: H317 May cause an allergic skin reaction.

**2.2 Label elements**

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

**Hazard pictograms****Signal word**

WARNING

**Contains:**

C14-16-18 Alkyl phenol

**Hazard statements**

H317 May cause an allergic skin reaction.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P280 Wear protective gloves.  
 P333+P313 If skin irritation or rash occurs: Get medical advice / attention.  
 P501 Dispose of contents / container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**2.3 Other hazards****Physico-chemical hazards**

No particular hazards known.

**Human health dangers**

Frequent persistent contact with the skin can cause skin irritation.

**Environmental hazards**

Does not contain any PBT or vPvB substances.

**Other hazards**

Further hazards were not determined with the current level of knowledge.

### SECTION 3: Composition / Information on ingredients

#### 3.1 Substances

not applicable

#### 3.2 Mixtures

The product is a mixture.

Range [%]	Substance
30 - < 60	Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract) CAS: 64742-54-7, EINECS/ELINCS: 265-157-1, EU-INDEX: 649-467-00-8, Reg-No.: 01-2119484627-25-XXXX GHS/CLP: Asp. Tox. 1: H304
1 - < 2,5	Bis(nonylphenyl)amine CAS: 36878-20-3, EINECS/ELINCS: 253-249-4, Reg-No.: 01-2119488911-28-XXXX GHS/CLP: Aquatic Chronic 4: H413
1 - < 2,5	C14-16-18 Alkyl phenol CAS: 1190625-94-5, EINECS/ELINCS: 931-468-2, Reg-No.: 01-2119498288-19-XXXX GHS/CLP: Skin Sens. 1B: H317 - STOT RE 2: H373
1 - < 2,5	Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate) CAS: 93819-94-4, EINECS/ELINCS: 298-577-9, Reg-No.: 01-2119543726-33-XXXX GHS/CLP: Skin Irrit. 2: H315 - Eye Dam. 1: H318 - Aquatic Chronic 2: H411 SCL [%]: >6,25 - 100: Skin Irrit. 2, >10 - 12,5: Eye Irrit. 2, > 12,5: Eye Dam. 1

#### Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.  
For full text of H-statements and R-phrases: see SECTION 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

<b>General information</b>	Change soaked clothing.
<b>Inhalation</b>	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
<b>Skin contact</b>	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
<b>Eye contact</b>	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.
<b>Ingestion</b>	Consult a doctor immediately. Rinse out mouth and give plenty of water to drink. Do not induce vomiting.

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

If swallowed or in the event of vomiting, risk of product entering the lungs.

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

Treat symptomatically.  
Forward this sheet to your doctor.

### SECTION 5: Fire-fighting measures

#### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	foam, dry powder, water spray jet, carbon dioxide
<b>Extinguishing media that must not be used</b>	Full water jet.

## 5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.  
Carbon monoxide (CO)  
Sulphur oxides (SO<sub>x</sub>).  
Nitrogen oxides (NO<sub>x</sub>).  
Hydrogen sulfide ((H<sub>2</sub>S).

## 5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.  
Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

## SECTION 6: Accidental release measures

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

High risk of slipping due to leakage/spillage of product.  
Forms slippery surfaces with water.

### 6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).  
Do not discharge into the drains/surface waters/groundwater.

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

Take up with absorbent material (e.g. general-purpose binder).  
Dispose of absorbed material in accordance with the regulations.

### 6.4 Reference to other sections

See SECTION 8+13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid formation of aerosols.  
Do not smoke.  
Fire class (DIN EN 2): B  
Wash hands before breaks and after work.  
Do not eat, drink or smoke when using this product.  
Use barrier skin cream.  
Take off contaminated clothing and wash before reuse.  
Cloths contaminated with product should not be kept in trouser pockets.

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

Keep only in original container.  
Prevent penetration into the ground.  
Do not store together with oxidizing agents.  
Do not store together with food and animal food/diet.  
Keep container tightly closed.  
Protect from heat/overheating.

### 7.3 Specific end use(s)

See product use, SECTION 1.2

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## SECTION 8: Exposure controls / personal protection

## 8.1 Control parameters

## Ingredients with occupational exposure limits to be monitored (GB)

Substance
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract)
CAS: 64742-54-7, EINECS/ELINCS: 265-157-1, EU-INDEX: 649-467-00-8, Reg-No.: 01-2119484627-25-XXXX
Long-term exposure: 5 mg/m <sup>3</sup> , oil mist
Short-term exposure (15-minute): 10 mg/m <sup>3</sup>

## DNEL

Substance
Bis(nonylphenyl)amine, CAS: 36878-20-3
Industrial, dermal, Long-term - systemic effects: 5 mg/kg bw/day.
general population, oral, Long-term - systemic effects: 0,25 mg/kg bw/day.
general population, dermal, Long-term - systemic effects: 2,5 mg/kg bw/day.
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
Industrial, dermal, Long-term - systemic effects: 1 mg/kg bw/day.
Industrial, inhalative, Long-term - local effects: 5,6 mg/m <sup>3</sup> .
Industrial, inhalative, Long-term - systemic effects: 2,7 mg/m <sup>3</sup> .
general population, oral, Long-term - systemic effects: 0,74 mg/kg bw/day.
Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate), CAS: 93819-94-4
Industrial, dermal, Long-term - systemic effects: 0,58 mg/kg bw/day.
Industrial, inhalative, Long-term - systemic effects: 8,31 mg/m <sup>3</sup> .
general population, oral, Long-term - systemic effects: 0,24 mg/kg bw/day.
general population, dermal, Long-term - systemic effects: 0,29 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 2,11 mg/m <sup>3</sup> .
C14-16-18 Alkyl phenol, CAS: 1190625-94-5
Industrial, dermal, Long-term - systemic effects: 300 µg/kg bw/d.
Industrial, inhalative, Long-term - systemic effects: 1,17 mg/m <sup>3</sup> .

## PNEC

Substance
Bis(nonylphenyl)amine, CAS: 36878-20-3
seawater, 0,01 mg/l.
sewage treatment plants (STP), 1 mg/l.
sediment (freshwater), 132000 mg/kg.
sediment (seawater), 13200 mg/kg.
soil, 263000 mg/kg.
freshwater, 0,1 mg/l.
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
oral (food), 9,33 mg/kg.
Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate), CAS: 93819-94-4
sediment (seawater), 0,001 mg/kg dw.
freshwater, 0,004 mg/l.
seawater, 0,004 mg/l.
sediment (freshwater), 0,012 mg/kg dw.

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soil, 0,005 mg/kg.
oral (food), 10,67 mg/kg.
sewage treatment plants (STP), 100 mg/l.
C14-16-18 Alkyl phenol, CAS: 1190625-94-5
oral (food), 3,3 mg/kg.
freshwater, 100 µg/l.
seawater, 10 µg/l.
sewage treatment plants (STP), 100 mg/l.
sediment (freshwater), 4266,16 mg/kg dw.
sediment (seawater), 426,62 mg/kg dw.
soil, 852,58 mg/kg dw.

**8.2 Exposure controls**

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
<b>Eye protection</b>	Safety glasses. (EN 166:2001)
<b>Hand protection</b>	The details concerned are recommendations. Please contact the glove supplier for further information. > 0,11 mm: Nitrile rubber, >480 min (EN 374-1/-2/-3).
<b>Skin protection</b>	Light protective clothing.
<b>Other</b>	Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. Avoid contact with eyes and skin.
<b>Respiratory protection</b>	Breathing apparatus in the event of aerosol or mist formation. Short term: filter apparatus, combination filter A-P1. (DIN EN 14387)
<b>Thermal hazards</b>	No information available.
<b>Delimitation and monitoring of the environmental exposition</b>	Comply with applicable environmental regulations limiting discharge to air, water and soil.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	liquid
Color	light brown
Odor	characteristic
Odour threshold	No information available.
pH-value	not applicable
pH-value [1%]	No information available.
Boiling point [°C]	No information available.
Flash point [°C]	> 195 (ISO 2592)
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	<0,01 (20°C)
Density [g/ml]	ca. 0,85 (DIN 51757) (15 °C / 59,0 °F)
Bulk density [kg/m <sup>3</sup> ]	not applicable
Solubility in water	virtually insoluble
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	No information available.
Kinematic viscosity	ca. 10,2 mm <sup>2</sup> /s (100°C) (DIN 51562/T1) > 20,5 mm <sup>2</sup> /s (40°C)
Relative vapour density	No information available.
Evaporation speed	No information available.
Melting point [°C]	< -36 (DIN ISO 3016)
Auto-ignition temperature	No information available.
Decomposition temperature [°C]	> 65°C
Particle characteristics	No information available.

### 9.2 Other information

Pour point: ca. -36°C

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

See SECTION 10.3.

### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

### 10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.

### 10.4 Conditions to avoid

Strong acids.

Strong heating, because the thermal decomposition starts from > 65°C.



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**10.5 Incompatible materials**

- Oxidizing agent
- Acids
- Strong basic compounds

**10.6 Hazardous decomposition products**

In the case of heating following (decomposition) products may occur:  
Hydrogen sulfide (H<sub>2</sub>S).

## SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

## Acute oral toxicity

Substance
Bis(nonylphenyl)amine, CAS: 36878-20-3
LD50, oral, Rat: >5000 mg/kg (OECD 401).
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
LD50, oral, Rat: > 5000 mg/kg.
Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate), CAS: 93819-94-4
LD50, oral, Rat: 2600 mg/kg.
C14-16-18 Alkyl phenol, CAS: 1190625-94-5
LD50, oral, Rat (female): >2000 mg/kg bw.

## Acute dermal toxicity

Substance
Bis(nonylphenyl)amine, CAS: 36878-20-3
LD50, dermal, Rat: >2000 mg/kg (OECD 402).
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
LD50, dermal, Rabbit: > 2000 mg/kg.
LC50, dermal, Rat: 2,18 mg/l.
Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate), CAS: 93819-94-4
LD50, dermal, Rabbit: >3160 mg/kg bw/day.
C14-16-18 Alkyl phenol, CAS: 1190625-94-5
LD50, dermal, Rat: >2000 mg/kg bw.

## Acute inhalational toxicity

Substance
Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate), CAS: 93819-94-4
LC50, inhalative, Rat: >2 mg/l.

## Serious eye damage/irritation

Toxicological data of complete product are not available.  
CAS 93819-94-4: >10% - <12,5% Eye Irrit. 2 No classification.  
Classification was carried out based on substance-specific concentration limits.

## Skin corrosion/irritation

Based on the available information, the classification criteria are not fulfilled.

## Respiratory or skin sensitisation

Toxicological data of complete product are not available.  
May cause an allergic skin reaction.  
Calculation method

## Specific target organ toxicity — single exposure

Based on the available information, the classification criteria are not fulfilled.

## Specific target organ toxicity — repeated exposure

Based on the available information, the classification criteria are not fulfilled.

## Mutagenicity

Based on the available information, the classification criteria are not fulfilled.

## Reproduction toxicity

Based on the available information, the classification criteria are not fulfilled.

## Carcinogenicity

Based on the available information, the classification criteria are not fulfilled.

## Aspiration hazard

Based on the available information, the classification criteria are not fulfilled.

## General remarks

Toxicological data of complete product are not available.  
The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists.



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**SECTION 12: Ecological information****12.1 Toxicity**

Substance
Bis(nonylphenyl)amine, CAS: 36878-20-3
EC50, (48h), Daphnia magna: >100 mg/l (OECD 202).
LC0, (96h), Brachidanio rerio: 58 mg/l (OECD 203).
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
EL50, (24h), Daphnia magna: > 10000 mg/l.
NOELR, (14d), Oncorhynchus mykiss: >= 1000 mg/l.
LL50, (96h), Pimephales promelas: >100 mg/l.
NOEL, (72h), Pseudokirchneriella subcapitata: >= 100 mg/l.
NOEL, (21d), Daphnia magna: 10 mg/l.
Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate), CAS: 93819-94-4
EC50, (3h), Activated sludge: >10000 mg/l.
EC50, (48h), Daphnia magna: 5,4 mg/l (OECD 202).
EC50, (72h), Selenastrum capricornutum: 2,1 mg/l.
IC50, (21d), Daphnia magna: >0,8 mg/l.
LL50, (96h), Oncorhynchus mykiss: 4,5 mg/l.
C14-16-18 Alkyl phenol, CAS: 1190625-94-5
LC50, (96h), Cyprinus carpio: >100 mg/l.
EC50, (24h), Daphnia magna: >100 mg/l.
EC50, (72h), Pseudokirchneriella subcapitata: >100 mg/l.
NOEC, (72h), Pseudokirchneriella subcapitata: 100 mg/l.
NOELR, (24h), Daphnia magna: >100 mg/l.

**12.2 Persistence and degradability**

<b>Behaviour in environment compartments</b>	not determined
<b>Behaviour in sewage plant</b>	Can be separated out mechanically in purification plants.
<b>Biological degradability</b>	The product is not readily biodegradable.

**12.3 Bioaccumulative potential**

No information available.

**12.4 Mobility in soil**

No information available.

**12.5 Results of PBT and vPvB assessment**

Based on all available information not to be classified as PBT or vPvB respectively.

**12.6 Endocrine disrupting properties**

No information available.

**12.7 Other adverse effects**

Ecological data of complete product are not available.

Do not discharge product unmonitored into the environment or into the drainage.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.



**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

**Product**

Coordinate disposal with the authorities if necessary.  
 Disposal in an incineration plant in accordance with the regulations of the local authorities.  
 In according to RoHS!

**Waste no. (recommended)**

130205\* mineral-based non-chlorinated engine, gear and lubricating oils

**Contaminated packaging**

Uncontaminated packaging may be taken for recycling.  
 Packaging that cannot be cleaned should be disposed of as for product.

**Waste no. (recommended)**

150110\* packaging containing residues of or contaminated by hazardous substances

**SECTION 14: Transport information**

**14.1 UN number**

**Transport by land according to ADR/RID** not applicable

**Inland navigation (ADN)** not applicable

**Marine transport in accordance with IMDG** not applicable

**Air transport in accordance with IATA** not applicable

**14.2 UN proper shipping name**

**Transport by land according to ADR/RID** NO DANGEROUS GOODS

**Inland navigation (ADN)** NO DANGEROUS GOODS

**Marine transport in accordance with IMDG** NOT CLASSIFIED AS "DANGEROUS GOODS"

**Air transport in accordance with IATA** NOT CLASSIFIED AS "DANGEROUS GOODS"

**14.3 Transport hazard class(es)**

**Transport by land according to ADR/RID** not applicable

**Inland navigation (ADN)** not applicable

**Marine transport in accordance with IMDG** not applicable

**Air transport in accordance with IATA** not applicable

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**14.4 Packing group**

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

**14.5 Environmental hazards**

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

**14.6 Special precautions for user**

Relevant information under SECTION 6 to 8.

**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**

**EEC-REGULATIONS** 2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014

**TRANSPORT-REGULATIONS** ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2020)

**NATIONAL REGULATIONS (GB):** EH40/2005 Workplace exposure limits (Second edition, published December 2011).

- Observe employment restrictions for people Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.

- VOC (2010/75/CE) not applicable

**15.2 Chemical safety assessment**

not applicable

**SECTION 16: Other information****16.1 Hazard statements (SECTION 3)**

H413 May cause long lasting harmful effects to aquatic life.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H317 May cause an allergic skin reaction.  
 H411 Toxic to aquatic life with long lasting effects.  
 H318 Causes serious eye damage.  
 H315 Causes skin irritation.  
 H304 May be fatal if swallowed and enters airways.

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**16.2 Abbreviations and acronyms:**

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
 ATE = acute toxicity estimate  
 CAS = Chemical Abstracts Service  
 CLP = Classification, Labelling and Packaging  
 DMEL = Derived Minimum Effect Level  
 DNEL = Derived No Effect Level  
 EC50 = Median effective concentration  
 ECB = European Chemicals Bureau  
 EEC = European Economic Community  
 EINECS = European Inventory of Existing Commercial Chemical Substances  
 EL50 = Median effective loading  
 ELINCS = European List of Notified Chemical Substances  
 EmS = Emergency Schedules  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
 IC50 = Inhibition concentration, 50%  
 IMDG = International Maritime Code for Dangerous Goods  
 IUCLID = International Uniform Chemical Information Database  
 IVIS = In vitro irritation score  
 LC50 = Lethal concentration, 50%  
 LD50 = Median lethal dose  
 LC0 = lethal concentration, 0%  
 LOAEL = lowest-observed-adverse-effect level  
 LL50 = Median lethal loading  
 LQ = Limited Quantities  
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
 NOAEL = No Observed Adverse Effect Level  
 NOEC = No Observed Effect Concentration  
 PBT = Persistent, Bioaccumulative and Toxic substance  
 PNEC = Predicted No-Effect Concentration  
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
 STP = Sewage Treatment Plant  
 TLV@TWA = Threshold limit value – time-weighted average  
 TLV@STEL = Threshold limit value – short-time exposure limit  
 VOC = Volatile Organic Compounds  
 vPvB = very Persistent and very Bioaccumulative

**16.3 Other information****Classification procedure**

Skin Sens. 1B: H317 May cause an allergic skin reaction. (Calculation method)

**Modified position**

none