

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

### 1.1 Product identifier

**febi 24704 hydraulic fluid**  
**Article number: 24704**

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

#### 1.2.1 Relevant uses

Hydraulics oil

#### 1.2.2 Uses advised against

For all uses not specified in SECTION 1.2.1

### 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  
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Homepage [www.febi.com](http://www.febi.com)  
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#### Address enquiries to

**Technical information** [info@febi.com](mailto:info@febi.com)

**Safety Data Sheet** [info@febi.com](mailto: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 Irrit. 2: H315 Causes skin irritation.  
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

### 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

#### Hazard statements

H315 Causes skin irritation.  
H412 Harmful to aquatic life with long lasting effects.

#### 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 / protective clothing.  
P332+P313 If skin irritation 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.

#### Special labelling

Contains: 3-(Diisobutoxy-thiophosphorylsulfanyl)-2-methyl-propionic acid, reaction products of P-/N-/S-containing compounds with propionic acid. EUH208 May produce an allergic reaction.

### 2.3 Other hazards

none

#### 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

**Product-type:**

The product is a mixture.

Range [%]	Substance
30 - < 60	Distillates (petroleum), hydrotreated light naphthenic
	CAS: 64742-53-6, EINECS/ELINCS: 265-156-6, EU-INDEX: 649-466-00-2
	GHS/CLP: Asp. Tox. 1: H304
15 - < 30	Distillates (petroleum), hydrotreated light paraffinic
	CAS: 64742-55-8, EINECS/ELINCS: 265-158-7, EU-INDEX: 649-468-00-3, Reg-No.: 01-2119487077-29-XXXX
	GHS/CLP: Asp. Tox. 1: H304
15 - < 30	Distillates (petroleum), hydrotreated middle
	CAS: 64742-46-7, EINECS/ELINCS: 265-148-2, EU-INDEX: 649-221-00-X
	GHS/CLP: Acute Tox. 4: H332 - Asp. Tox. 1: H304 - Skin Irrit. 2: H315 - Aquatic Chronic 2: H411
5 - < 15	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based
	CAS: 72623-87-1, EINECS/ELINCS: 276-738-4, EU-INDEX: 649-483-00-5
	GHS/CLP: Asp. Tox. 1: H304
< 0.5	2,6-di-tert-butylphenol
	CAS: 128-39-2, EINECS/ELINCS: 204-884-0, Reg-No.: 01-2119490822-33-XXXX
	GHS/CLP: Skin Irrit. 2: H315 - Aquatic Chronic 1: H410 - Aquatic Acute 1: H400
< 0.25	reaction products of P-/N-/S-containing compounds with propionic acid
	CAS: 94270-86-7, EINECS/ELINCS: 939-700-4, Reg-No.: 01-2119982395-25
	GHS/CLP: Skin Irrit. 2: H315 - Skin Sens. 1B: H317 - Aquatic Acute 1: H400 - Aquatic Chronic 2: H411
< 0.25	3-(Diisobutoxy-thiophosphorylsulfanyl)-2-methyl-propionic acid
	CAS: 268567-32-4, EINECS/ELINCS: 434-070-2, Reg-No.: 01-2119658068-31
	GHS/CLP: Eye Dam. 1: H318 - Skin Sens. 1B: H317 - Aquatic Chronic 3: H412

**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: see SECTION 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

**General information**

Take off contaminated clothing and wash before reuse.

**Inhalation**

Ensure supply of fresh air.  
 In the event of symptoms seek medical treatment.

**Skin contact**

When in contact with the skin, clean with soap and water.  
 Consult a doctor if skin irritation persists.

**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.

**Ingestion**

Seek medical advice immediately.  
 Do not induce vomiting.  
 Rinse out mouth and give plenty of water to drink.

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

No information available.

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

Treat symptomatically.  
 If swallowed or in the event of vomiting, risk of product entering the lungs.  
 Forward this sheet to the doctor.

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media	Foam, dry powder, water spray jet, carbon dioxide.
Extinguishing media that must not be used	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>).

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

### 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.

### 7.3 Specific end use(s)

See product use, SECTION 1.2

**SECTION 8: Exposure controls / personal protection**

**8.1 Control parameters**

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

Substance
Distillates (petroleum), hydrotreated light paraffinic
CAS: 64742-55-8, EINECS/ELINCS: 265-158-7, EU-INDEX: 649-468-00-3, Reg-No.: 01-2119487077-29-XXXX
Long-term exposure: 5 mg/m <sup>3</sup> , ACGIH TLV (OIL MIST)

**DNEL**

Substance
2,6-di-tert-butylphenol, CAS: 128-39-2
Industrial, inhalative, Long-term - systemic effects: 70,61 mg/m <sup>3</sup> .
Industrial, dermal, Long-term - systemic effects: 11,25 mg/kg bw/day.
general population, oral, Long-term - systemic effects: 6,75 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 20,9 mg/m <sup>3</sup> .
3-(Diisobutoxy-thiophosphorylsulfanyl)-2-methyl-propionic acid, CAS: 268567-32-4
Industrial, dermal, Long-term - systemic effects: 1.25 mg/kg bw/d (AF=100).
Industrial, inhalative, Long-term - systemic effects: 4,4 mg/m <sup>3</sup> (AF=25).
general population, inhalative, Long-term - systemic effects: 1.1 mg/m <sup>3</sup> (AF=50).
general population, dermal, Long-term - systemic effects: 0.6 mg/kg bw/d (AF=200).
general population, oral, Long-term - systemic effects: 0.6 mg/kg bw/d (AF=200).
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
Industrial, inhalative, Long-term - local effects: 5,6 mg/m <sup>3</sup> .
Industrial, dermal, Long-term - systemic effects: 1 mg/kg bw/day.
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.
reaction products of P-/N-/S-containing compounds with propionic acid, CAS: 94270-86-7
Industrial, inhalative, Long-term - systemic effects: 1,3 mg/m <sup>3</sup> (AF=30).
Industrial, dermal, Long-term - systemic effects: 0,4 mg/kg bw/d (AF=120).
general population, dermal, Long-term - systemic effects: 0,2 mg/kg bw/d (AF=240).
general population, inhalative, Long-term - systemic effects: 0,3 mg/m <sup>3</sup> (AF=60).

**PNEC**

Substance
2,6-di-tert-butylphenol, CAS: 128-39-2
sewage treatment plants (STP), 10 mg/l.
seawater, 0,00 mg/l.
sediment (freshwater), 0,317 mg/kg sediment dw.
sediment (seaater), 0,032 mg/kg sediment dw.
soil, 0,063 mg/kg soil dw.
oral (food), 60 mg/kg food.
freshwater, 0,001 mg/l.
3-(Diisobutoxy-thiophosphorylsulfanyl)-2-methyl-propionic acid, CAS: 268567-32-4
freshwater, 0,072 mg/L (AF=50).
soil, 4,54 mg/kg dw.
sediment (seaater), 2,3 mg/kg dw.
sediment (freshwater), 23 mg/kg dw.
sewage treatment plants (STP), 10 mg/l (AF=10).



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seawater, 0.007 mg/L (AF=500).
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
oral (food), 9,33 mg/kg food.
reaction products of P-/N-/S-containing compounds with propionic acid, CAS: 94270-86-7
freshwater, 0,001 mg/l (AF=1000).
sewage treatment plants (STP), 0,69 mg/l (AF=100).
seawater, 0 mg/l (AF=10.000).

**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. General exposure limit for oil mist should be noted.
<b>Eye protection</b>	If there is a risk of splashing: 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>	See SECTION 6+7.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Form	liquid
Color	green-yellow
Odor	characteristic
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	No information available.
Flash point [°C]	> 90 (ISO 2592)
Flammability (solid, gas) [°C]	No information available.
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. 0,86 (DIN 51757) (15 °C / 59,0 °F)
Bulk density [kg/m <sup>3</sup> ]	not applicable
Solubility in water	immiscible
Partition coefficient [n-octanol/water]	not determined
Viscosity	ca. 21 mm <sup>2</sup> /s (40°C) (DIN 51562/T1)
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	ca. -51 (ISO 3016)
Autoignition temperature [°C]	not determined
Decomposition temperature [°C]	> 300

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reactions known if used as directed.

### 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 heating, because the thermal decomposition starts from > 300°C.

### 10.5 Incompatible materials

Oxidizing agent

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

Product
oral, Based on the available information, the classification criteria are not fulfilled.:
inhalative, Based on the available information, the classification criteria are not fulfilled.:
dermal, Based on the available information, the classification criteria are not fulfilled.:
Substance
Distillates (petroleum), hydrotreated light naphthenic, CAS: 64742-53-6
LD50, dermal, Rabbit: > 2000 mg/kg.
LD50, oral, Rat: > 5000 mg/kg.
2,6-di-tert-butylphenol, CAS: 128-39-2
LD50, oral, Rat: >5000 mg/kg bw (OECD 401).
LD0, dermal, Rat: > 36 ml/kg bw (Lit.).
3-(Diisobutoxy-thiophosphorylsulfanyl)-2-methyl-propionic acid, CAS: 268567-32-4
LD50, dermal, Rat: > 2000 mg/kg bw.
LD50, oral, Rat: > 2000 mg/kg bw.
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
LD50, dermal, Rabbit: >= 2000 mg/kg (OECD 402).
LD50, oral, Rat: >= 5000 mg/kg (OECD 401).
LC50, inhalative, Rat: >= 5,53 mg/l (OECD 403).
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
LD50, oral, Rat: >5000 mg/kg bw (OECD 401).
LD50, dermal, Rabbit: >2000 mg/kg bw (OECD 402).
reaction products of P-/N-/S-containing compounds with propionic acid, CAS: 94270-86-7
LD50, dermal, > 2000 mg/kg bw.
LD50, oral, Rat: 3313 mg/kg bw.

<b>Serious eye damage/irritation</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Skin corrosion/irritation</b>	Toxicological data of complete product are not available. Irritant Calculation method
<b>Respiratory or skin sensitisation</b>	Toxicological data of complete product are not available. May produce an allergic reaction. Calculation method
<b>Specific target organ toxicity — single exposure</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Specific target organ toxicity — repeated exposure</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Mutagenicity</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Reproduction toxicity</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Carcinogenicity</b>	Based on the available information, the classification criteria are not fulfilled.
<b>Aspiration hazard</b>	Based on the available information, the classification criteria are not fulfilled.
<b>General remarks</b>	

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.

## SECTION 12: Ecological information

### 12.1 Toxicity

Substance
2,6-di-tert-butylphenol, CAS: 128-39-2
LC50, (21d), Daphnia magna: 0,23 mg/l (OECD 211).
LC50, (48h), Daphnia magna: 0,45 mg/l (US EPA TSCA).
LC50, (96h), Pimephales promelas: 1,4 mg/l (OECD 204).
EC50, (24h), Pseudokirchneriella subcapitata: 2,3 mg/l (US EPA 797.1050).
3-(Diisobutoxy-thiophosphorylsulfanyl)-2-methyl-propionic acid, CAS: 268567-32-4
LC50, (96h), fish: 54 mg/l.
EC50, (48h), Daphnia magna: 53 mg/l.
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
LC50, (96h), fish: > 100 mg/l (OECD 203).
EC50, (48h), Crustacea: > 100 mg/l (OECD 202).
ErC50, (72h), Algae: > 100 mg/l (OECD 201).
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
EL50, (24h), Daphnia magna: >10000 mg/l (OECD 202).
LL50, (96h), Pimephales promelas: >100 mg/l (OECD 203).
NOEL, (72h), Pseudokirchneriella subcapitata: >100 mg/l (OECD 201).
NOEL, (21d), Daphnia magna: >10 mg/l (OECD 211).
reaction products of P-/N-/S-containing compounds with propionic acid, CAS: 94270-86-7
LC50, (96h), 1 - 10 mg/l.
EC50, (48h), Daphnia magna: 1 - 10 mg/l.

### 12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

### 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 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 c 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 disposal contractor/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\*

**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**

<b>EEC-REGULATIONS</b>	1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2016/2037/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014
<b>TRANSPORT-REGULATIONS</b>	DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2018).
<b>NATIONAL REGULATIONS (GB):</b>	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)	0%

**15.2 Chemical safety assessment**

not applicable

**SECTION 16: Other information**

**16.1 Hazard statements (SECTION 03)**

H412 Harmful to aquatic life with long lasting effects.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
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.  
H315 Causes skin irritation.  
H332 Harmful if inhaled.  
H304 May be fatal if swallowed and enters airways.

## 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  
ELINCS = European List of Notified Chemical Substances  
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  
LC50 = Lethal concentration, 50%  
LD50 = Median lethal dose  
LC0 = lethal concentration, 0%  
LOAEL = lowest-observed-adverse-effect level  
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 Irrit. 2: H315 Causes skin irritation. (Calculation method)  
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

### Modified position

SECTION 3 been added: N,N-bis(2-ethylhexyl)-ar-methyl-1H-benzotriazol-1-methanamin