

CHEMOTEC GmbH  
63486 Bruchköbel

Date printed 19.01.2021, Revision 19.01.2021

Version 07. Supersedes version: 06

Page 1 / 13

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

### 1.1 Product identifier

**rea-clean Bio-Reiniger**

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

#### 1.2.1 Relevant uses

Cleaning agent

#### 1.2.2 Uses advised against

None known.

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

**Company** CHEMOTEC GmbH  
Blochbachstrasse 40  
63486 Bruchköbel / GERMANY  
Phone +49(0)6181 / 72668  
Fax +49(0)6181 / 77652  
Homepage www.chemotec.de  
E-mail info@chemotec.de

#### Address enquiries to

**Technical information** info@chemotec.de

**Safety Data Sheet** sdb@chemiebuero.de

### 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]

Eye Irrit. 2: H319 Causes serious eye irritation.

### 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

H319 Causes serious eye irritation.

#### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P280 Wear eye protection / face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice / attention.

#### Cleaner, 648/2004/CE, contains:

5 - <15% non-ionic surfactants  
< 5% anionic surfactant

### 2.3 Other hazards

#### 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

CHEMOTEC GmbH  
63486 Bruchköbel

Date printed 19.01.2021, Revision 19.01.2021

Version 07. Supersedes version: 06

Page 2 / 13

### 3.2 Mixtures

The product is a mixture.

Range [%]	Substance
5 - <10	Fatty alcohol alkoxyated
	CAS: 27252-75-1, EINECS/ELINCS: 500-058-1
	GHS/CLP: Eye Irrit. 2: H319
1 - <3	3,5,5-Trimethylhexanoic acid
	CAS: 3302-10-1, EINECS/ELINCS: 221-975-0, Reg-No.: 01-2119517580-45-XXXX
	GHS/CLP: Acute Tox. 4: H302 - Skin Irrit. 2: H315 - Eye Dam. 1: H318
1 - <3	Sodium p-cumenesulphonate
	CAS: 15763-76-5, EINECS/ELINCS: 239-854-6, Reg-No.: 01-2119489411-37-XXXX
	GHS/CLP: Eye Irrit. 2: H319

#### 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

<b>General information</b>	Take off contaminated clothing and wash before reuse.
<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 plenty of 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>	Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Seek medical advice immediately.

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

Irritant effects

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

Forward this sheet to your doctor.

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.
<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.  
Sulphur oxides (SO<sub>x</sub>).  
Nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO).

### 5.3 Advice for firefighters

Use self-contained breathing apparatus.  
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

**CHEMOTEC GmbH**  
**63486 Bruchköbel**

Date printed 19.01.2021, Revision 19.01.2021

Version 07. Supersedes version: 06

Page 3 / 13

## **SECTION 6: Accidental release measures**

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

High risk of slipping due to leakage/spillage of product.  
Use personal protective equipment (protective gloves, safety glasses, protective clothing).

### **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**

Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth).  
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 contact with eyes and skin. Use personal protective equipment.

Do not eat, drink or smoke when using this product.  
Wash hands before breaks and after work.  
Use barrier skin cream.  
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 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

CHEMOTEC GmbH  
63486 Bruchköbel

Date printed 19.01.2021, Revision 19.01.2021

Version 07. Supersedes version: 06

Page 4 / 13

## SECTION 8: Exposure controls / personal protection

### 8.1 Control parameters

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

not applicable

#### DNEL

Substance
3,5,5-Trimethylhexanoic acid, CAS: 3302-10-1
Industrial, inhalative, Long-term - systemic effects: 7 mg/m <sup>3</sup> .
Industrial, dermal, Long-term - systemic effects: 2 mg/kg bw/day.
general population, oral, Long-term - systemic effects: 1 mg/kg bw/day.
general population, dermal, Long-term - systemic effects: 1 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 2 mg/m <sup>3</sup> .
Sodium p-cumenesulphonate, CAS: 15763-76-5
Industrial, inhalative, Long-term - systemic effects: 26,9 mg/m <sup>3</sup> .
Industrial, dermal, Long-term - systemic effects: 136,25 mg/kg bw/day.
general population, oral, Long-term - systemic effects: 3,8 mg/kg bW/d.
general population, dermal, Long-term - systemic effects: 68,1 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 6,6 mg/m <sup>3</sup> .

#### PNEC

Substance
3,5,5-Trimethylhexanoic acid, CAS: 3302-10-1
soil, 0,141 mg/kg.
sediment (seawater), 0,0904 mg/kg.
sediment (freshwater), 0,904 mg/kg.
sewage treatment plants (STP), 23 mg/l.
seawater, 0,0068 mg/l.
freshwater, 0,068 mg/l.
Sodium p-cumenesulphonate, CAS: 15763-76-5
soil, 0,037 mg/kg.
sediment (seawater), 0,086 mg/kg.
sediment (freshwater), 0,862 mg/kg.
seawater, 0,023 mg/L.
sewage treatment plants (STP), 100 mg/L.
freshwater, 0,23 mg/L.

CHEMOTEC GmbH  
63486 Bruchköbel

Date printed 19.01.2021, Revision 19.01.2021

Version 07. Supersedes version: 06

Page 5 / 13

## 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation.
<b>Eye protection</b>	Safety glasses. (EN 166:2001)
<b>Hand protection</b>	0,4 mm; Butyl rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
<b>Skin protection</b>	Protective clothing (EN 340)
<b>Other</b>	Avoid contact with eyes and skin. 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.
<b>Respiratory protection</b>	Not required under normal conditions.
<b>Thermal hazards</b>	none
<b>Delimitation and monitoring of the environmental exposition</b>	Protect the environment by applying appropriate control measures to prevent or limit emissions.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	liquid
<b>Color</b>	not determined
<b>Odor</b>	characteristic
<b>Odour threshold</b>	not determined
<b>pH-value</b>	10,5
<b>pH-value [1%]</b>	not determined
<b>Boiling point [°C]</b>	not determined
<b>Flash point [°C]</b>	not applicable
<b>Flammability (solid, gas) [°C]</b>	not applicable
<b>Lower explosion limit</b>	not applicable
<b>Upper explosion limit</b>	not applicable
<b>Oxidising properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	not determined
<b>Density [g/ml]</b>	not determined
<b>Bulk density [kg/m<sup>3</sup>]</b>	not applicable
<b>Solubility in water</b>	miscible
<b>Solubility other solvents</b>	No information available.
<b>Partition coefficient [n-octanol/water]</b>	not determined
<b>Kinematic viscosity</b>	not applicable
<b>Relative vapour density</b>	not applicable
<b>Evaporation speed</b>	not applicable
<b>Melting point [°C]</b>	not determined
<b>Auto-ignition temperature</b>	not applicable
<b>Decomposition temperature [°C]</b>	not determined
<b>Particle characteristics</b>	not applicable

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reactions known if used as directed.

**CHEMOTEC GmbH**  
**63486 Bruchköbel**

Date printed 19.01.2021, Revision 19.01.2021

Version 07. Supersedes version: 06

Page 6 / 13

## **10.2 Chemical stability**

Stable under normal ambient conditions (ambient temperature).

## **10.3 Possibility of hazardous reactions**

No hazardous reactions known.

## **10.4 Conditions to avoid**

See SECTION 7.2.

## **10.5 Incompatible materials**

Oxidizing agent

## **10.6 Hazardous decomposition products**

No hazardous decomposition products known.

CHEMOTEC GmbH  
63486 Bruchköbel

Date printed 19.01.2021, Revision 19.01.2021

Version 07. Supersedes version: 06

Page 7 / 13

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute oral toxicity

Product
ATE-mix, oral, Based on the available information, the classification criteria are not fulfilled.:
Substance
3,5,5-Trimethylhexanoic acid, CAS: 3302-10-1
LD50, oral, Rat: 1160 mg/kg bw OECD 401.
Sodium p-cumenesulphonate, CAS: 15763-76-5
LD50, oral, Rat: > 2000 mg/kg OECD 401.
NOAEL, oral, 763-3534 mg/kg/90d (OECD 408).
NOAEL, oral, Rat: > 936 mg/kg.
Fatty alcohol alkoxylated, CAS: 27252-75-1
LD50, oral, > 2000 - < 5000 mg/kg.

#### Acute dermal toxicity

Product
ATE-mix, dermal, Based on the available information, the classification criteria are not fulfilled.:
Substance
3,5,5-Trimethylhexanoic acid, CAS: 3302-10-1
LD50, dermal, Rat: >2000 mg/kg bw.
Sodium p-cumenesulphonate, CAS: 15763-76-5
LD50, dermal, Rabbit: > 2000 mg/kg.
NOAEL, dermal, > 440 mg/kg/90d (OECD 411).

#### Acute inhalational toxicity

Product
ATE-mix, inhalative, Based on the available information, the classification criteria are not fulfilled.:

#### Serious eye damage/irritation

Irritant  
Based on the available information, the classification criteria are fulfilled.  
Calculation method

Substance
3,5,5-Trimethylhexanoic acid, CAS: 3302-10-1
OECD 405.
Eye, Rabbit:
Eye corrosive.
Sodium p-cumenesulphonate, CAS: 15763-76-5
OECD 405.
Eye, Rabbit:
irritant.
Fatty alcohol alkoxylated, CAS: 27252-75-1
No information available.:
irritant.

#### Skin corrosion/irritation

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

**CHEMOTEC GmbH**  
**63486 Bruchköbel**

Date printed 19.01.2021, Revision 19.01.2021

Version 07. Supersedes version: 06

Page 8 / 13

Substance
3,5,5-Trimethylhexanoic acid, CAS: 3302-10-1
OECD 404.
dermal, Rabbit:
irritant.
Sodium p-cumenesulphonate, CAS: 15763-76-5
OECD 404.
dermal, Rabbit:
negative.
Fatty alcohol alkoxylated, CAS: 27252-75-1
No information available.:
negative.

**Respiratory or skin sensitisation** Based on the available information, the classification criteria are not fulfilled.

Substance
3,5,5-Trimethylhexanoic acid, CAS: 3302-10-1
OECD 406.
dermal, Guinea pig:
negative.
Sodium p-cumenesulphonate, CAS: 15763-76-5
OECD 406.
dermal, Guinea pig:
negative.
Fatty alcohol alkoxylated, CAS: 27252-75-1
No information available.:
negativ.

**Specific target organ toxicity — single exposure** Based on the available information, the classification criteria are not fulfilled.

Substance
3,5,5-Trimethylhexanoic acid, CAS: 3302-10-1
No information available.:
Sodium p-cumenesulphonate, CAS: 15763-76-5
No information available.:
negative.
Fatty alcohol alkoxylated, CAS: 27252-75-1
No information available.:
negative.

**Specific target organ toxicity — repeated exposure** Based on the available information, the classification criteria are not fulfilled.

Substance
3,5,5-Trimethylhexanoic acid, CAS: 3302-10-1
No information available.:
Sodium p-cumenesulphonate, CAS: 15763-76-5
No information available.:
negative.
NOAEL, oral, Rat: 763 mg/kg bw/day.
Fatty alcohol alkoxylated, CAS: 27252-75-1



CHEMOTEC GmbH  
63486 Bruchköbel

Date printed 19.01.2021, Revision 19.01.2021

Version 07. Supersedes version: 06

Page 9 / 13

No information available.:
negative.

**Mutagenicity**

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

Substance
3,5,5-Trimethylhexanoic acid, CAS: 3302-10-1
Ames-test (OECD 471).
negative.
Sodium p-cumenesulphonate, CAS: 15763-76-5
No information available.:
negative.
Fatty alcohol alkoxyated, CAS: 27252-75-1
No information available.:
negative.

**Reproduction toxicity**

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

Substance
3,5,5-Trimethylhexanoic acid, CAS: 3302-10-1
OECD 415.
negative.
NOAEL, oral, Rat (female): 79 - 228 mg/kg bw/day.
Sodium p-cumenesulphonate, CAS: 15763-76-5
OECD 421.
negative.
NOAEL, oral, Rat: 300 mg/kg bw/day.
Fatty alcohol alkoxyated, CAS: 27252-75-1
No information available.:
negative.

**Carcinogenicity**

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

Substance
3,5,5-Trimethylhexanoic acid, CAS: 3302-10-1
No information available.:
Sodium p-cumenesulphonate, CAS: 15763-76-5
OECD 453.
dermal, Rat:
negative.
Fatty alcohol alkoxyated, CAS: 27252-75-1
No information available.:
negative.

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

CHEMOTEC GmbH  
63486 Bruchköbel

Date printed 19.01.2021, Revision 19.01.2021

Version 07. Supersedes version: 06

Page 10 / 13

## SECTION 12: Ecological information

### 12.1 Toxicity

Substance
3,5,5-Trimethylhexanoic acid, CAS: 3302-10-1
LC50, (96h), Oncorhynchus mykiss: 160 mg/l OECD 203.
EC50, (48h), Daphnia magna: 68 mg/l OECD 202.
IC50, (72h), Pseudokirchneriella subcapitata: 81 mg/l OECD 201.
Sodium p-cumenesulphonate, CAS: 15763-76-5
LC50, (96h), Cyprinus carpio: > 100 mg/l OECD 203.
EC50, (72h), Desmodesmus subspicatus: > 100 mg/l OECD 201.
EC50, (48h), Daphnia magna: > 100 mg/l OECD 202.
NOEC, (96h), Algae: 31 mg/l EPA OPPTS.
ErC50, (3h), Bacteria: > 1000 mg/l OECD 209.
Fatty alcohol alkoxylated, CAS: 27252-75-1
LC50, fish: > 10 - 100 mg/l (DIN EN ISO 7346-2).
EC50, (24h), Daphnia magna: > 10 - < 100 mg/L (OECD 202).

### 12.2 Persistence and degradability

**Behaviour in environment compartments**

No information available.

**Behaviour in sewage plant**

No information available.

**Biological degradability**

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.  
Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

### 12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

### 12.4 Mobility in soil

Spillages may penetrate the soil causing ground water contamination.

### 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.

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

**CHEMOTEC GmbH**  
**63486 Bruchköbel**

Date printed 19.01.2021, Revision 19.01.2021

Version 07. Supersedes version: 06

Page 11 / 13

### 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

Dispose of as hazardous waste.  
Coordinate disposal with the authorities if necessary.

**Waste no. (recommended)** 200129\*

##### Contaminated packaging

Uncontaminated packaging may be reused.

**Waste no. (recommended)** 150110\* packaging containing residues of or contaminated by hazardous substances  
150102

### 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

CHEMOTEC GmbH  
63486 Bruchköbel

Date printed 19.01.2021, Revision 19.01.2021

Version 07. Supersedes version: 06

Page 12 / 13

#### 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) 0 %

#### 15.2 Chemical safety assessment

not applicable

### SECTION 16: Other information

#### 16.1 Hazard statements (SECTION 3)

H318 Causes serious eye damage.  
H315 Causes skin irritation.  
H302 Harmful if swallowed.  
H319 Causes serious eye irritation.

CHEMOTEC GmbH

63486 Bruchköbel

Date printed 19.01.2021, Revision 19.01.2021

Version 07. Supersedes version: 06

Page 13 / 13

**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**

Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)

**Modified position**

none



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