

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

### 1.1 Product identifier

**QuickSpray Industrial Slow Komp. B**

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

#### 1.2.1 Relevant uses

Amine components  
Coating agent

#### 1.2.2 Uses advised against

None known.

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

**Company** Voelkel Industrie Produkte GmbH  
Frauenstrasse 31  
82216 Maisach / GERMANY  
Phone +49 (0) 8141 35 549 0  
Fax +49 (0) 8141 35 549 99  
Homepage [www.vip-gmbh.com](http://www.vip-gmbh.com)  
E-mail [info@vip-gmbh.com](mailto:info@vip-gmbh.com)

#### Address enquiries to

**Technical information** [info@vip-gmbh.com](mailto:info@vip-gmbh.com)

**Safety Data Sheet** [sdb@chemiebuero.de](mailto: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

#### 2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

Skin Corr. 1B: H314 Causes severe skin burns and eye damage.  
Eye Dam. 1: H318 Causes serious eye damage.  
Skin Sens. 1: H317 May cause an allergic skin reaction.  
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.  
Acute Tox. 4: H302 Harmful if swallowed.  
Aquatic Acute 1: H400 Very toxic to aquatic life.  
Aquatic Chronic 1: H410 Very toxic to aquatic life with long lasting effects.

#### 2.1.2 Classification according to Directive 67/548/EEC or 1999/45/EC

Xn, Harmful - R 22: Harmful if swallowed.  
C, Corrosive - R 34: Causes burns.  
Xn, Harmful - R 48/22: Harmful - danger of serious damage to health by prolonged exposure if swallowed.  
N, Dangerous for the environment - R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Sensitizing. - R 43: May cause sensitisation by skin contact.

Safety Data Sheet 1907/2006/EC - REACH (GB)  
**QuickSpray Industrial Slow Komp. B**

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Version 01

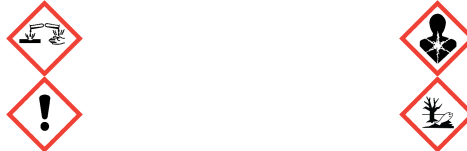
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## 2.2 Label elements

The product is classified and required to be labelled in accordance with EC-Directives

### Labelling according to Regulation (EC) 1272/2008

#### Hazard pictograms



#### Signal word

DANGER

#### Contains:

Polyoxypropylenediamine  
 6-Methyl-2,4-bis(methylthio)phenylene-1,3-diamine  
 Diethylmethylbenzendiamine

#### Hazard statements

H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H302 Harmful if swallowed.  
 H410 Very toxic to aquatic life with long lasting effects.

#### Precautionary statements

P260 Do not breathe vapours / spray.  
 P280 Wear protective gloves / protective clothing / eye protection / face protection.  
 P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER / doctor.  
 P501 Dispose of contents / container to in accordance with local / regional / national / international regulation.

## 2.3 Other hazards

#### 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  |
|-----------|--|
| 60 - 70   | Polyoxypropylenediamine<br>CAS: 9046-10-0, EINECS/ELINCS: Polymer<br>GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1B: H314 - Eye Dam. 1: H318 - Aquatic Chronic 3: H412<br>EEC: C, R 22-34-52/53   |
| 10 - 20   | 6-Methyl-2,4-bis(methylthio)phenylene-1,3-diamine<br>CAS: 106264-79-3, EINECS/ELINCS: 403-240-8, EU-INDEX: 612-113-00-8, ECB-Nr.: 01-0000015292-76-XXXX<br>GHS/CLP: Acute Tox. 4: H302 - Skin Sens. 1: H317 - Aquatic Chronic 1: H410 - Aquatic Acute 1: H400, M = 1<br>EEC: Xn-N, R 22-43-50/53         |
| 5 - 10    | Diethylmethylbenzendiamine<br>CAS: 68479-98-1, EINECS/ELINCS: 270-877-4, EU-INDEX: 612-130-00-0, ECB-Nr.: 01-2119486805-25-XXXX<br>GHS/CLP: Acute Tox. 4: H302 H312 - STOT RE 2: H373 - Eye Irrit. 2: H319 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M = 1<br>EEC: Xn-N, R 21/22-36-48/22-50/53 |

#### 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 immediately.  |
| <b>Inhalation</b>          | Ensure supply of fresh air.<br>Remove the victim into fresh air and keep him calm.<br>In the event of symptoms seek for medical treatment.                             |
| <b>Skin contact</b>        | Immediate medical treatment necessary, as untreated burns can result in slow-healing wounds.<br>In case of contact with skin wash off immediately with soap and water. |
| <b>Eye contact</b>         | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>Consult a doctor immediately.                  |
| <b>Ingestion</b>           | Consult a doctor immediately.<br>Do not induce vomiting.   |

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

Product is caustic.  
Redness

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

Treat symptomatically.  
Keep under medical supervision for at least 48 hours.

## 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)  
Carbon dioxide (CO<sub>2</sub>)  
Nitrogen oxides (NO<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 with the local regulations.

## SECTION 6: Accidental release measures

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

Ensure adequate ventilation.  
Use personal protective equipment.  
Remove persons to safety.

### 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.  
In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

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

Pick up with absorbent material (e.g. sand, 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

Use only in well-ventilated areas.  
Avoid spilling in enclosed areas.  
Take precautionary measures against static discharges.  
Remove soiled or soaked clothing immediately.  
Do not eat, drink, smoke or take drugs at work.  
Showers and eye wash stations should be provided.  
Wash hands before breaks and after work.  
Use barrier skin cream.

### 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.  
Keep container tightly closed.  
Keep container in a well-ventilated place.  
Keep in a cool place. Store in a dry place.  
Protect from heat/overheating and from sun.  
Protect from light.

### 7.3 Specific end use(s)

See product use, SECTION 1.2

## SECTION 8: Exposure controls / personal protection

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

#### 8.1 Control parameters

not applicable

#### DNEL

| Range [%] | Substance   |
|-----------|---|
| 5 - 10    | Diethylmethylbenzendiamine, CAS: 68479-98-1   |
|           | Industrial, dermal, Long-term - systemic effects: 1 mg/kg bw/day.                     |
|           | Industrial, inhalative, Long-term - systemic effects: 0,13 mg/m <sup>3</sup> .        |
|           | general population, oral, Long-term - systemic effects: 0,1 mg/kg bw/day.             |
|           | general population, dermal, Long-term - systemic effects: 1 mg/kg bw/day.             |
|           | general population, inhalative, Long-term - systemic effects: 0,1 mg/m <sup>3</sup> . |

#### PNEC

| Range [%] | Substance                                   |
|-----------|---|
| 5 - 10    | Diethylmethylbenzendiamine, CAS: 68479-98-1 |
|           | oral (food), 2 mg/kg.                       |
|           | soil, 5,6 µg/kg.                            |
|           | sediment (seawater), 0,0029 mg/kg.          |
|           | sediment (freshwater), 0,029 mg/kg.         |
|           | seawater, 0,00005 mg/l.                     |
|           | freshwater, 0,0005 mg/l.                    |
|           | sewage treatment plants (STP), 17 mg/l.     |

#### 8.2 Exposure controls

|  |  |
|--|--|
| <b>Additional advice on system design</b>                          | Ensure adequate ventilation on workstation.  |
| <b>Eye protection</b>  | Tightly fitting goggles.   |
| <b>Hand protection</b>   | The details concerned are recommendations. Please contact the glove supplier for further information.<br>Butyl rubber, >480 min (EN 374).<br>Nitrile rubber, >480 min (EN 374).  |
| <b>Skin protection</b>   | Impermeable protective clothing.   |
| <b>Other</b>   | Do not inhale gases/vapours.<br>Avoid contact with eyes and skin.<br>Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier. |
| <b>Respiratory protection</b>                                      | If ventilation insufficient, wear respiratory protection.<br>Short term: filter apparatus, filter A.   |
| <b>Thermal hazards</b>   | not applicable   |
| <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

|   |                               |
|---|-------------------------------|
| Form                                      | Viscous liquid                |
| Color                                     | various                       |
| Odor                                      | amine-like                    |
| Odour threshold                           | not determined                |
| pH-value                                  | not applicable                |
| pH-value [1%]                             | not applicable                |
| Boiling point [°C]                        | not determined                |
| Flash point [°C]                          | not determined                |
| Flammability (solid, gas) [°C]            | not applicable                |
| Lower explosion limit                     | not determined                |
| Upper explosion limit                     | not determined                |
| Oxidizing properties                      | no                            |
| Vapour pressure/gas pressure [kPa]        | not determined                |
| Density [g/ml]                            | 1,02 - 1,06 (20 °C / 68,0 °F) |
| Bulk density [kg/m <sup>3</sup> ]         | not applicable                |
| Solubility in water                       | immiscible                    |
| Partition coefficient [n-octanol/water]   | not determined                |
| Viscosity                                 | 300-700 mPas (25°C)           |
| Relative vapour density determined in air | not determined                |
| Evaporation speed                         | not determined                |
| Melting point [°C]                        | not determined                |
| Autoignition temperature [°C]             | not determined                |
| Decomposition temperature [°C]            | not determined                |

### 9.2 Other information

No information available.

## 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 oxidizing agents.

### 10.4 Conditions to avoid

Strong heating.

### 10.5 Incompatible materials

See SECTION 10.3.

### 10.6 Hazardous decomposition products

In the event of fire: See SECTION 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

|                                    |
|------------------------------------|
| Product                            |
| ATE-mix, oral, > 300 - 2000 mg/kg. |

| Range [%] | Substance   |
|-----------|---|
| 60 - 70   | Polyoxypropylenediamine, CAS: 9046-10-0                             |
|           | LD50, oral, Rat: 475 mg/kg.   |
|           | LD50, dermal, Rabbit: 2090 mg/kg.                                   |
|           | NOAEL, dermal, 40 mg/kg/d (subchronic).                             |
|           | NOAEL, dermal, 1000 mg/kg/d (subacute).                             |
|           | NOAEL, inhalative, 790 ppm (subacute).                              |
| 5 - 10    | Diethylmethylbenzendiamine, CAS: 68479-98-1                         |
|           | LD50, dermal, Rat: > 2000 mg/kg (OECD 402).                         |
|           | LD50, oral, Rat: 738 mg/kg (OECD 401).                              |
|           | NOAEL, oral, Rat: >= 8 mg/kg/90d.                                   |
|           | NOAEL, dermal, Rabbit: >= 10 mg/kg/21d.                             |
|           | LOAEL, oral, Rat: >= 21 mg/kg/90d.                                  |
|           | NOEL, oral, Rat: 50 ppm/28d.  |
|           | NOEL, dermal, Rabbit: 1,0 mg/kg/21d.                                |
| 10 - 20   | 6-Methyl-2,4-bis(methylthio)phenylene-1,3-diamine, CAS: 106264-79-3 |
|           | LD50, dermal, Rabbit: > 2000 mg/kg.                                 |
|           | LD50, oral, Rat: 1515 mg/kg.  |

**Serious eye damage/irritation** not determined

**Skin corrosion/irritation** not determined

**Respiratory or skin sensitisation** not determined

**Specific target organ toxicity — single exposure** not determined

**Specific target organ toxicity — repeated exposure** not determined

**Mutagenicity** OECD 471 (in vitro), Ames-Test: positive.  
 OECD 473, Negative chromosomal aberration test (in vitro)  
 OECD 474, Micronucleus test, negative (in vivo).  
 (CAS 68479-98-1)

**Reproduction toxicity** not determined

**Carcinogenicity** not determined

**General remarks** May cause irritation of respiratory organs.  
 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. The product was classified on the basis of the calculation procedure of the preparation directive.

## SECTION 12: Ecological information

### 12.1 Toxicity

| Range [%] | Substance   |
|-----------|---|
| 60 - 70   | Polyoxypropylenediamine, CAS: 9046-10-0                             |
|           | LC50, (96h), fish: > 100 mg/l.                                      |
|           | EC50, (48h), Daphnia magna: 15 mg/l.                                |
|           | IC50, (72h), Algae: 135 mg/l.                                       |
| 5 - 10    | Diethylmethylbenzendiamine, CAS: 68479-98-1                         |
|           | LC50, (96h), Pimephales promelas: > 106 mg/l (OECD 203).            |
|           | EC50, (24h), Pseudomonas putida: > 170 mg/l (DIN 38412-8).          |
|           | EC50, (48h), Daphnia magna: 5,8 mg/l (OECD 202).                    |
|           | ErC50, (72h), Desmodemus subspicatus: ca. 104 mg/l (OECD 201).      |
| 10 - 20   | 6-Methyl-2,4-bis(methylthio)phenylene-1,3-diamine, CAS: 106264-79-3 |
|           | LC50, (96h), Rainbow trout: 7,3 mg/l.                               |
|           | EC50, (72h), Selenastrum capricornutum: 7,6 mg/l.                   |
|           | EC50, (48h), Daphnia magna: 0,9 mg/l.                               |

### 12.2 Persistence and degradability

|  |  |
|--|--|
| <b>Behaviour in environment compartments</b> | not determined   |
| <b>Behaviour in sewage plant</b>             | not determined   |
| <b>Biological degradability</b>              | The product is not readily biodegradable.<br>< 60%, 28d (CAS 9046-10-0)<br>< 1%, 28d (CAS 68479-98-1, OECD 301D)<br>(CAS 106264-79-3, OECD 301D) |

### 12.3 Bioaccumulative potential

BCF: 2,75 (CAS 68479-98-1)  
 logPow: 1,38 (20°C) (CAS 68479-98-1)  
 BCF: 9,8 - 25 (CAS 106264-79-3)

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

not applicable

### 12.6 Other adverse effects

The product is insoluble in water.  
 Ecological data of complete product are not available.  
 The product was classified on the basis of the calculation procedure of the preparation directive.  
 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

Dispose of as hazardous waste.  
 For recycling, consult manufacturer.

#### Waste no. (recommended)

160305\*  
 160508\*  
 070104\*

#### 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

See SECTION 14.2 in accordance with UN shipping name

### 14.2 UN proper shipping name

#### Transport by land according to ADR/RID

UN 2735 Amines, liquid, corrosive, n.o.s. (Polyoxypropylendiamine, 6-methyl-2,4-bis(methylthio)phenylene-1,3-diamine) (ENVIRONMENTALLY HAZARDOUS) 8 III

#### - Classification Code

C7

#### - Label



#### - ADR LQ

5 I

#### - ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 3 (E)

#### Inland navigation (ADN)

UN 2735 Amines, liquid, corrosive, n.o.s. (Polyoxypropylendiamine, 6-methyl-2,4-bis(methylthio)phenylene-1,3-diamine) (ENVIRONMENTALLY HAZARDOUS) 8 III

#### - Classification Code

C7

#### - Label



#### Marine transport in accordance with IMDG

UN 2735 Amines, liquid, corrosive, n.o.s. (Polyoxypropylendiamine, 6-methyl-2,4-bis(methylthio)phenylene-1,3-diamine) 8 III MARINE POLLUTANT

#### - EMS

F-A, S-B

#### - Label



#### - IMDG LQ

5 I

#### Air transport in accordance with IATA

UN 2735 Amines, liquid, corrosive, n.o.s. (Polyoxypropylendiamine, 6-methyl-2,4-bis(methylthio)phenylene-1,3-diamine) 8 III

#### - Label



### 14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

#### 14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

#### 14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

|   |   |
|---|---|
| <b>EEC-REGULATIONS</b>                              | 1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC |
| <b>TRANSPORT-REGULATIONS</b>                        | DOT-Classification, ADR (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2015).   |
| <b>NATIONAL REGULATIONS (GB):</b>                   | EH40/2005 Workplace exposure limits (Second edition, published December 2011).<br>CHIP 3/ CHIP 4  |
| <b>- Observe employment restrictions for people</b> | Observe employment restrictions for young people.<br>Observe employment restrictions for mothers-to-be and nursing mothers.             |
| <b>- VOC (1999/13/CE)</b>                           | not applicable  |

#### 15.2 Chemical safety assessment

For this product a chemical safety assessment has not been carried out.

### SECTION 16: Other information

#### 16.1 R-phrases (SECTION 3)

R 22: Harmful if swallowed.  
R 34: Causes burns.  
R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R 43: May cause sensitisation by skin contact.  
R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R 21/22: Harmful in contact with skin and if swallowed.  
R 36: Irritating to eyes.  
R 48/22: Harmful - danger of serious damage to health by prolonged exposure if swallowed.

#### 16.2 Hazard statements (SECTION 3)

H319 Causes serious eye irritation.  
H373 May cause damage to organs through prolonged or repeated exposure if swallowed.  
H302+H312 Harmful if swallowed or in contact with skin.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.  
H318 Causes serious eye damage.  
H314 Causes severe skin burns and eye damage.  
H302 Harmful if swallowed.

Safety Data Sheet 1907/2006/EC - REACH (GB)  
**QuickSpray Industrial Slow Komp. B**

Date printed 07.04.2015, Revision 07.04.2015

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### 16.3 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  
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  
MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
PBT = Persistent, Bioaccumulative and Toxic substance  
PNEC = Predicted No-Effect Concentration  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
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

### 16.4 Other information

#### Classification procedure

Skin Corr. 1B: H314 Causes severe skin burns and eye damage. (Calculation method)  
Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)  
Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)  
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. (Calculation method)  
Acute Tox. 4: H302 Harmful if swallowed. (Calculation method)  
Aquatic Acute 1: H400 Very toxic to aquatic life. (Calculation method)  
Aquatic Chronic 1: H410 Very toxic to aquatic life with long lasting effects. (Calculation method)

#### Modified position

none

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