# Flumethrin (1%) Formulation

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

### 1.1 Product identifier

Trade name : Flumethrin (1%) Formulation

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

Use of the Substance/Mixture : Veterinary product

Recommended restrictions on use : Not applicable

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

Company : MSD
Balıkhisar Mah. Köyiçi Küme Evleri No: 765/A
Çubuk Yolu 2. Km
Akyurt / Ankara / TÜRKİYE

Telephone : +90 312 840 53 00

E-mail address of person responsible for the SDS : EHSDATASTEWARD@msd.com

### 1.4 Emergency telephone number

National Poison Control Center (UZEM): 114
Emergency: 1-908-423-6000

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification T.R. SEA No 28848 and subsequent amendments**

| | |
|---|---|
| Flammable liquids, Category 3 | H226: Flammable liquid and vapour. |
| Acute toxicity, Category 4 | H302: Harmful if swallowed. |
| Acute toxicity, Category 3 | H311: Toxic in contact with skin. |
| Skin irritation, Category 2 | H315: Causes skin irritation. |
| Eye irritation, Category 2 | H319: Causes serious eye irritation. |
| Reproductive toxicity, Category 1B | H360D: May damage the unborn child. |
| Specific target organ toxicity - single exposure, Category 2 | H371: May cause damage to organs. |
| Specific target organ toxicity - repeated exposure, Category 2 | H373: May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard, Category 1 | H304: May be fatal if swallowed and enters airways. |
| Long-term (chronic) aquatic hazard, Category 3 | H412: Harmful to aquatic life with long lasting effects. |

### 2.2 Label elements

**Labelling T.R. SEA No 28848 and subsequent amendments**

Hazard pictograms :

Signal word : Danger

Hazard statements :

H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H311 Toxic in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H360D May damage the unborn child.
H371 May cause damage to organs.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements :

**Prevention:**

P201 Obtain special instructions before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.

Hazardous components which must be listed on the label:
Paraffin oil

Xylene

Flumethrin

### 2.3 Other hazards

Vapours may form explosive mixture with air.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

**Components**

| Chemical name | CAS-No.<br>EC-No. | SEA Classification | Concentration (% w/w) |
|---|---|---|---|

| | Index-No.<br>KKDIK Registration No. | | |
|---|---|---|---|
| Paraffin oil | 8012-95-1<br>232-384-2 | Asp. Tox. 1; H304<br>Aquatic Chronic 4; H413 | >= 50 - < 70 |
| Xylene | 1330-20-7<br>215-535-7<br>601-022-00-9 | Flam. Liq. 3; H226<br>Acute Tox. 4; H332<br>Acute Tox. 4; H312<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>STOT SE 3; H335<br>STOT RE 2; H373 (Auditory system)<br>Asp. Tox. 1; H304<br>Aquatic Chronic 3; H412 | >= 10 - < 20 |
| Flumethrin | 69770-45-2<br>274-110-4 | Acute Tox. 2; H300<br>Acute Tox. 1; H310<br>Eye Irrit. 2; H319<br>Repr. 1B; H360D<br>STOT SE 1; H370<br>STOT RE 1; H372<br>Aquatic Chronic 1; H410<br>———————<br>M-Factor (Chronic aquatic toxicity): 1 | >= 1 - < 2,5 |
| Toluene | 108-88-3<br>203-625-9<br>601-021-00-3 | Flam. Liq. 2; H225<br>Skin Irrit. 2; H315<br>Repr. 2; H361d<br>STOT SE 3; H336<br>STOT RE 2; H373 (Central nervous system)<br>Asp. Tox. 1; H304<br>Aquatic Chronic 3; H412 | >= 0,25 - < 1 |

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : In the case of accident or if you feel unwell, seek medical advice immediately.

When symptoms persist or in all cases of doubt seek medical advice.

Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).

If inhaled : If inhaled, remove to fresh air.
Get medical attention.

In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Get medical attention.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.

In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
If easy to do, remove contact lens, if worn.
Get medical attention.

If swallowed : If swallowed, DO NOT induce vomiting.
If vomiting occurs have person lean forward.
Call a physician or poison control centre immediately.
Rinse mouth thoroughly with water.
Never give anything by mouth to an unconscious person.

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

Risks : Harmful if swallowed.
May be fatal if swallowed and enters airways.
Toxic in contact with skin.
Causes skin irritation.
Causes serious eye irritation.
May damage the unborn child.
May cause damage to organs.
May cause damage to organs through prolonged or repeated exposure.

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

Treatment : Treat symptomatically and supportively.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Water spray
Alcohol-resistant foam
Carbon dioxide (CO2)
Dry chemical

Unsuitable extinguishing : High volume water jet

media

### 5.2 Special hazards arising from the substance or mixture

| | | |
|---|---|---|
| Specific hazards during fire-fighting | : | Do not use a solid water stream as it may scatter and spread fire.<br>Flash back possible over considerable distance.<br>Vapours may form explosive mixtures with air.<br>Exposure to combustion products may be a hazard to health. |
| Hazardous combustion products | : | Carbon oxides |

### 5.3 Advice for firefighters

| | | |
|---|---|---|
| Special protective equipment for firefighters | : | In the event of fire, wear self-contained breathing apparatus.<br>Use personal protective equipment. |
| Specific extinguishing methods | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.<br>Use water spray to cool unopened containers.<br>Remove undamaged containers from fire area if it is safe to do so.<br>Evacuate area. |

## SECTION 6: Accidental release measures

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

| | | |
|---|---|---|
| Personal precautions | : | Remove all sources of ignition.<br>Use personal protective equipment.<br>Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8). |

### 6.2 Environmental precautions

| | | |
|---|---|---|
| Environmental precautions | : | Avoid release to the environment.<br>Prevent further leakage or spillage if safe to do so.<br>Prevent spreading over a wide area (e.g. by containment or oil barriers).<br>Retain and dispose of contaminated wash water.<br>Local authorities should be advised if significant spillages cannot be contained. |

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

| | | |
|---|---|---|
| Methods for cleaning up | : | Non-sparking tools should be used.<br>Soak up with inert absorbent material.<br>Suppress (knock down) gases/vapours/mists with a water spray jet.<br>For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.<br>Clean up remaining materials from spill with suitable absor- |

bent.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

| | | |
|---|---|---|
| Technical measures | : | See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. |
| Local/Total ventilation | : | If sufficient ventilation is unavailable, use with local exhaust ventilation.<br>Use explosion-proof electrical, ventilating and lighting equipment. |
| Advice on safe handling | : | Do not get on skin or clothing.<br>Do not breathe mist or vapours.<br>Do not swallow.<br>Do not get in eyes.<br>Wash skin thoroughly after handling.<br>Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment<br>Non-sparking tools should be used.<br>Keep container tightly closed.<br>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>Take precautionary measures against static discharges.<br>Do not eat, drink or smoke when using this product.<br>Take care to prevent spills, waste and minimize release to the environment. |
| Hygiene measures | : | If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.<br>The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls. |

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

| | | |
|---|---|---|
| Requirements for storage areas and containers | : | Keep in properly labelled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition. |

Advice on common storage : Do not store with the following product types:
Strong oxidizing agents
Self-reactive substances and mixtures
Organic peroxides
Flammable solids
Pyrophoric liquids
Pyrophoric solids
Self-heating substances and mixtures
Substances and mixtures, which in contact with water, emit flammable gases
Explosives
Gases
Very acutely toxic substances and mixtures

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Occupational Exposure Limits**

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|---|---|---|---|---|
| Paraffin oil | 8012-95-1 | TWA (8 Hour) | 5 mg/m3 | TR OEL |
| Xylene | 1330-20-7 | TWA (8 Hour) | 50 ppm<br>221 mg/m3 | TR OEL |
| | Further information: A skin notation assigned to the OEL identifies the possibility of significant uptake through the skin. | | | |
| | | STEL 15 min | 100 ppm<br>442 mg/m3 | TR OEL |
| | Further information: A skin notation assigned to the OEL identifies the possibility of significant uptake through the skin. | | | |
| | | TWA | 50 ppm<br>221 mg/m3 | 2000/39/EC |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | STEL | 100 ppm<br>442 mg/m3 | 2000/39/EC |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |
| Flumethrin | 69770-45-2 | TWA | 45 µg/m3 (OEB 3) | Internal |
| | Further information: Skin | | | |
| | | Wipe limit | 450 µg/100 cm² | Internal |
| Toluene | 108-88-3 | TWA (8 Hour) | 50 ppm<br>192 mg/m3 | TR OEL |
| | Further information: A skin notation assigned to the OEL identifies the possibility of significant uptake through the skin. | | | |
| | | STEL 15 min | 100 ppm<br>384 mg/m3 | TR OEL |

| | | | | |
|---|---|---|---|---|
| | Further information: A skin notation assigned to the OEL identifies the possibility of significant uptake through the skin. | | | |
| | | TWA | 50 ppm<br>192 mg/m3 | 2006/15/EC |
| | Further information: Indicative, Identifies the possibility of significant uptake through the skin | | | |
| | | STEL | 100 ppm<br>384 mg/m3 | 2006/15/EC |
| | Further information: Indicative, Identifies the possibility of significant uptake through the skin | | | |

**Derived No Effect Level (DNEL) :**

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|---|---|---|---|---|
| Xylene | Workers | Inhalation | Long-term systemic effects | 221 mg/m3 |
| | Workers | Inhalation | Acute systemic effects | 442 mg/m3 |
| | Workers | Inhalation | Long-term local effects | 221 mg/m3 |
| | Workers | Inhalation | Acute local effects | 442 mg/m3 |
| | Workers | Skin contact | Long-term systemic effects | 212 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 65,3 mg/m3 |
| | Consumers | Inhalation | Acute systemic effects | 260 mg/m3 |
| | Consumers | Inhalation | Long-term local effects | 65,3 mg/m3 |
| | Consumers | Inhalation | Acute local effects | 260 mg/m3 |
| | Consumers | Skin contact | Long-term systemic effects | 125 mg/kg bw/day |
| | Consumers | Ingestion | Long-term systemic effects | 12,5 mg/kg bw/day |
| Glycerides, mixed decanoyl and octanoyl | Workers | Inhalation | Long-term systemic effects | 177,79 mg/m3 |
| | Workers | Skin contact | Long-term systemic effects | 25,21 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 43,84 mg/m3 |
| | Consumers | Skin contact | Long-term systemic effects | 12,61 mg/kg bw/day |
| | Consumers | Ingestion | Long-term systemic effects | 12,61 mg/kg bw/day |
| Paraffin oil | Workers | Inhalation | Long-term systemic effects | 5 mg/m3 |
| | Workers | Inhalation | Short-term exposure | 5 mg/m3 |
| | Workers | Inhalation | Long-term local effects | 5 mg/m3 |
| | Workers | Inhalation | Acute local effects | 5 mg/m3 |

| | | | | |
|---|---|---|---|---|
| Toluene | Workers | Inhalation | Acute systemic effects | 384 mg/m3 |
| | Workers | Inhalation | Acute local effects | 384 mg/m3 |
| | Workers | Skin contact | Long-term systemic effects | 384 mg/kg bw/day |
| | Workers | Inhalation | Long-term systemic effects | 192 mg/m3 |
| | Workers | Inhalation | Long-term local effects | 192 mg/m3 |
| | Consumers | Inhalation | Acute systemic effects | 226 mg/m3 |
| | Consumers | Inhalation | Acute local effects | 226 mg/m3 |
| | Consumers | Skin contact | Long-term systemic effects | 226 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 56,5 mg/m3 |
| | Consumers | Ingestion | Long-term systemic effects | 8,13 mg/kg bw/day |
| | Consumers | Inhalation | Long-term local effects | 56,5 mg/m3 |

**Predicted No Effect Concentration (PNEC) :**

| Substance name | Environmental Compartment | Value |
|---|---|---|
| Xylene | Fresh water | 0,327 mg/l |
| | Intermittent use/release | 0,327 mg/l |
| | Marine water | 0,327 mg/l |
| | Sewage treatment plant | 6,58 mg/l |
| | Fresh water sediment | 12,46 mg/kg dry weight (d.w.) |
| | Marine sediment | 12,46 mg/kg dry weight (d.w.) |
| | Soil | 2,31 mg/kg dry weight (d.w.) |
| Glycerides, mixed decanoyl and octanoyl | Oral (Secondary Poisoning) | 0,03 mg/kg food |
| Toluene | Fresh water | 0,68 mg/l |
| | Marine water | 0,68 mg/l |
| | Intermittent use/release | 0,68 mg/l |
| | Sewage treatment plant | 13,61 mg/l |
| | Fresh water sediment | 16,39 mg/kg dry weight (d.w.) |
| | Marine sediment | 16,39 mg/kg dry weight (d.w.) |
| | Soil | 2,89 mg/kg dry weight (d.w.) |

### 8.2 Exposure controls

**Engineering measures**

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less quick connections).
All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices).
Minimize open handling.
Use explosion-proof electrical, ventilating and lighting equipment.

**Personal protective equipment**

| | | |
|---|---|---|
| Eye/face protection | : | Wear safety glasses with side shields or goggles.<br>If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles.<br>Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols. |
| Hand protection | | |
| Material | : | Chemical-resistant gloves |
| Remarks | : | Consider double gloving. Take note that the product is flammable, which may impact the selection of hand protection. |
| Skin and body protection | : | Work uniform or laboratory coat.<br>Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.<br>Use appropriate degowning techniques to remove potentially contaminated clothing. |
| Respiratory protection | : | If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.<br>Equipment should conform to TS EN 14387 |
| Filter type | : | Combined particulates and organic vapour type (A-P) |

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| | | |
|---|---|---|
| Appearance | : | Aqueous solution |
| Colour | : | light brown, yellow |
| Odour | : | No data available |
| Odour Threshold | : | No data available |
| pH | : | No data available |
| Melting point/freezing point | : | No data available |
| Initial boiling point and boiling range | : | No data available |
| Flash point | : | 54 °C |
| Evaporation rate | : | No data available |
| Flammability (solid, gas) | : | Not applicable |
| Upper explosion limit / Upper flammability limit | : | No data available |

| | | |
|---|---|---|
| Lower explosion limit / Lower flammability limit | : | No data available |
| Vapour pressure | : | No data available |
| Relative vapour density | : | No data available |
| Relative density | : | No data available |
| Density | : | 0,820 - 0,900 g/cm³ |
| Solubility(ies) | | |
| Water solubility | : | No data available |
| Partition coefficient: n-octanol/water | : | Not applicable |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Viscosity | | |
| Viscosity, kinematic | : | No data available |
| Explosive properties | : | Not explosive |
| Oxidizing properties | : | The substance or mixture is not classified as oxidizing. |

### 9.2 Other information

| | | |
|---|---|---|
| Flammability (liquids) | : | No data available |
| Molecular weight | : | No data available |
| Particle size | : | Not applicable |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Not classified as a reactivity hazard.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

| | | |
|---|---|---|
| Hazardous reactions | : | Flammable liquid and vapour.<br>Vapours may form explosive mixture with air.<br>Can react with strong oxidizing agents. |

### 10.4 Conditions to avoid

| | | |
|---|---|---|
| Conditions to avoid | : | Heat, flames and sparks. |

### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation
Skin contact
Ingestion
Eye contact

**Acute toxicity**

Harmful if swallowed.
Toxic in contact with skin.

**Product:**

Acute oral toxicity : Acute toxicity estimate: 410,05 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: 393,03 mg/kg
Method: Calculation method

**Components:**

**Paraffin oil:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

**Xylene:**

Acute oral toxicity : LD50 (Rat): 3.523 mg/kg
Method: Directive 67/548/EEC, Annex V, B.1.

Acute inhalation toxicity : Acute toxicity estimate: 11 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Expert judgement
Remarks: Based on national or regional regulation.

Acute dermal toxicity : Acute toxicity estimate: 1.100 mg/kg

Method: Expert judgement
Remarks: Based on national or regional regulation.

**Flumethrin:**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50 (Rat): > 20 mg/kg |
| | | LD50 (Mouse): > 20 mg/kg |
| Acute inhalation toxicity | : | LC50 (Rat): > 2.934 mg/l |
| Acute dermal toxicity | : | LD50 (Rat): > 5 mg/kg |

**Toluene:**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50 (Rat): > 5.000 mg/kg |
| Acute inhalation toxicity | : | LC50 (Rat): 28,1 mg/l<br>Exposure time: 4 h<br>Test atmosphere: vapour |
| Acute dermal toxicity | : | LD50 (Rabbit): > 5.000 mg/kg |

**Skin corrosion/irritation**

Causes skin irritation.

**Components:**

**Paraffin oil:**

| | | |
|---|---|---|
| Species | : | Rabbit |
| Result | : | No skin irritation |

**Xylene:**

| | | |
|---|---|---|
| Species | : | Rabbit |
| Result | : | Skin irritation |

**Flumethrin:**

| | | |
|---|---|---|
| Result | : | No skin irritation |

**Toluene:**

| | | |
|---|---|---|
| Species | : | Rabbit |
| Method | : | Directive 67/548/EEC, Annex V, B.4. |
| Result | : | Skin irritation |

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Components:**

**Paraffin oil:**

| | | |
|---|---|---|
| Species | : | Rabbit |

Result : No eye irritation

**Xylene:**

Species : Rabbit
Result : Irritation to eyes, reversing within 21 days

**Flumethrin:**

Result : Mild eye irritation

**Toluene:**

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation

**Respiratory or skin sensitisation**

**Skin sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Components:**

**Xylene:**

Test Type : Local lymph node assay (LLNA)
Exposure routes : Skin contact
Species : Mouse
Result : negative

**Toluene:**

Test Type : Maximisation Test
Exposure routes : Skin contact
Species : Guinea pig
Method : Directive 67/548/EEC, Annex V, B.6.
Result : negative

**Germ cell mutagenicity**

Not classified based on available information.

**Components:**

**Xylene:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Result: negative

Test Type: Chromosome aberration test in vitro
Result: negative

Test Type: In vitro mammalian cell gene mutation test

| | | |
|---|---|---|
| | | Result: negative<br><br>Test Type: In vitro sister chromatid exchange assay in mammalian cells<br>Result: negative |
| Genotoxicity in vivo | : | Test Type: Rodent dominant lethal test (germ cell) (in vivo)<br>Species: Mouse<br>Application Route: Skin contact<br>Result: negative |

**Flumethrin:**

| | | |
|---|---|---|
| Genotoxicity in vitro | : | Test Type: Microbial mutagenesis assay (Ames test)<br>Test system: Salmonella typhimurium<br>Result: equivocal<br><br>Test Type: Chromosomal aberration<br>Test system: Chinese hamster ovary cells<br>Result: positive<br>Remarks: Not classified due to inconclusive data.<br><br>Test Type: Chromosomal aberration<br>Test system: Human lymphocytes<br>Result: negative<br><br>Test Type: in vitro micronucleus test<br>Test system: Mouse<br>Result: negative |
| Germ cell mutagenicity- Assessment | : | Weight of evidence does not support classification as a germ cell mutagen. |

**Toluene:**

| | | |
|---|---|---|
| Genotoxicity in vitro | : | Test Type: In vitro mammalian cell gene mutation test<br>Result: negative<br><br>Test Type: Bacterial reverse mutation assay (AMES)<br>Result: negative |
| Genotoxicity in vivo | : | Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)<br>Species: Rat<br>Application Route: Intraperitoneal injection<br>Result: negative<br><br>Test Type: Rodent dominant lethal test (germ cell) (in vivo)<br>Species: Mouse<br>Application Route: inhalation (vapour)<br>Method: OECD Test Guideline 478<br>Result: negative |

**Carcinogenicity**

Not classified based on available information.

**Components:**

**Xylene:**

| | | |
|---|---|---|
| Species | : | Rat |
| Application Route | : | Ingestion |
| Exposure time | : | 103 weeks |
| Result | : | negative |

**Flumethrin:**

| | | |
|---|---|---|
| Species | : | Rat |
| Application Route | : | Oral |
| Exposure time | : | 2 Years |
| NOAEL | : | 0,5 mg/kg body weight |
| Result | : | negative |

| | | |
|---|---|---|
| Carcinogenicity - Assessment | : | Weight of evidence does not support classification as a carcinogen |

**Toluene:**

| | | |
|---|---|---|
| Species | : | Rat |
| Application Route | : | inhalation (vapour) |
| Exposure time | : | 103 weeks |
| Result | : | negative |

| | | |
|---|---|---|
| Species | : | Mouse |
| Application Route | : | Skin contact |
| Exposure time | : | 24 Months |
| Result | : | negative |

**Reproductive toxicity**

May damage the unborn child.

**Components:**

**Xylene:**

| | | |
|---|---|---|
| Effects on fertility | : | Test Type: One-generation reproduction toxicity study<br>Species: Rat<br>Application Route: inhalation (vapour)<br>Result: negative |
| Effects on foetal development | : | Test Type: Embryo-foetal development<br>Species: Rat<br>Application Route: inhalation (vapour)<br>Result: negative |

**Flumethrin:**

| | | |
|---|---|---|
| Effects on foetal development | : | Test Type: Development<br>Species: Rat |

| | | |
|---|---|---|
| | | Application Route: Oral<br>Developmental Toxicity: NOAEL: 0,36 mg/kg body weight<br>Result: Maternal toxicity observed., Reduced offspring weight gain, foetal abnormalities<br><br>Test Type: Development<br>Species: Rat<br>Application Route: Oral<br>Developmental Toxicity: NOAEL: 0,5 mg/kg body weight<br>Result: Maternal toxicity observed., Skeletal malformations, Reduced foetal weight<br><br>Test Type: Development<br>Species: Rabbit<br>Application Route: Oral<br>Developmental Toxicity: NOAEL: 1,7 mg/kg body weight<br>Result: No teratogenic potential |
| Reproductive toxicity - Assessment | : | May damage the unborn child. |

**Toluene:**

| | | |
|---|---|---|
| Effects on fertility | : | Test Type: Two-generation reproduction toxicity study<br>Species: Rat<br>Application Route: inhalation (vapour)<br>Method: OECD Test Guideline 416<br>Result: negative |
| Effects on foetal development | : | Test Type: Embryo-foetal development<br>Species: Rat<br>Application Route: inhalation (vapour)<br>Result: positive |
| Reproductive toxicity - Assessment | : | Some evidence of adverse effects on development, based on animal experiments. |

**STOT - single exposure**

May cause damage to organs.

**Components:**

**Xylene:**

| | | |
|---|---|---|
| Assessment | : | May cause respiratory irritation. |

**Flumethrin:**

| | | |
|---|---|---|
| Exposure routes | : | Oral |
| Assessment | : | Causes damage to organs. |

**Toluene:**

| | | |
|---|---|---|
| Assessment | : | May cause drowsiness or dizziness. |

**STOT - repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

**Components:**

**Xylene:**

| | | |
|---|---|---|
| Exposure routes | : | inhalation (vapour) |
| Target Organs | : | Auditory system |
| Assessment | : | Shown to produce significant health effects in animals at concentrations of >0.2 to 1 mg/l/6h/d. |

**Flumethrin:**

| | | |
|---|---|---|
| Exposure routes | : | Oral |
| Assessment | : | Causes damage to organs through prolonged or repeated exposure. |

**Toluene:**

| | | |
|---|---|---|
| Exposure routes | : | Inhalation |
| Target Organs | : | Central nervous system |
| Assessment | : | May cause damage to organs through prolonged or repeated exposure. |

**Repeated dose toxicity**

**Components:**

**Paraffin oil:**

| | | |
|---|---|---|
| Species | : | Rat, female |
| LOAEL | : | 161 mg/kg |
| Application Route | : | Ingestion |
| Exposure time | : | 90 Days |

**Xylene:**

| | | |
|---|---|---|
| Species | : | Rat |
| LOAEL | : | > 0,2 - 1 mg/l |
| Application Route | : | inhalation (vapour) |
| Exposure time | : | 13 Weeks |
| Remarks | : | Based on data from similar materials |

| | | |
|---|---|---|
| Species | : | Rat |
| LOAEL | : | 150 mg/kg |
| Application Route | : | Ingestion |
| Exposure time | : | 90 Days |

**Flumethrin:**

| | | |
|---|---|---|
| Species | : | Rat |
| NOAEL | : | 0,7 mg/kg |
| Application Route | : | Oral |
| Exposure time | : | 13 Weeks |
| Target Organs | : | digestive system, Skin |

| | | |
|---|---|---|
| Symptoms | : | decrease in appetite, Skin disorders |

| | | |
|---|---|---|
| Species | : | Dog |
| NOAEL | : | 0,88 mg/kg |
| Application Route | : | Oral |
| Exposure time | : | 13 Weeks |
| Target Organs | : | digestive system, Hair, Skin |
| Symptoms | : | decrease in appetite, Skin disorders |

**Toluene:**

| | | |
|---|---|---|
| Species | : | Rat |
| LOAEL | : | 1,875 mg/l |
| Application Route | : | inhalation (vapour) |
| Exposure time | : | 6 Months |

| | | |
|---|---|---|
| Species | : | Rat |
| NOAEL | : | 625 mg/kg |
| Application Route | : | Ingestion |
| Exposure time | : | 13 Weeks |

**Aspiration toxicity**

May be fatal if swallowed and enters airways.

**Components:**

**Paraffin oil:**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

**Xylene:**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

**Toluene:**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

**Experience with human exposure**

**Components:**

**Toluene:**

| | | |
|---|---|---|
| Inhalation | : | Target Organs: Central nervous system<br>Symptoms: Neurological disorders |

## SECTION 12: Ecological information

### 12.1 Toxicity

**Components:**

**Paraffin oil:**

| | | |
|---|---|---|
| Toxicity to fish | : | LL50 (Scophthalmus maximus (turbot)): > 100 mg/l<br>Exposure time: 96 h<br>Test substance: Water Accommodated Fraction<br>Remarks: Based on data from similar materials |
| Toxicity to daphnia and other aquatic invertebrates | : | EL50 (Acartia tonsa (Calanoid copepod)): > 100 mg/l<br>Exposure time: 48 h<br>Test substance: Water Accommodated Fraction<br>Remarks: Based on data from similar materials |
| Toxicity to algae/aquatic plants | : | EL50 (Skeletonema costatum (marine diatom)): > 100 mg/l<br>Exposure time: 72 h<br>Test substance: Water Accommodated Fraction<br>Remarks: Based on data from similar materials<br><br>NOELR (Skeletonema costatum (marine diatom)): > 1 mg/l<br>Exposure time: 72 h<br>Test substance: Water Accommodated Fraction<br>Remarks: Based on data from similar materials |

**Xylene:**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 13,5 mg/l<br>Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l<br>Exposure time: 24 h<br>Method: OECD Test Guideline 202<br>Remarks: Based on data from similar materials |
| Toxicity to algae/aquatic plants | : | EC50 (Skeletonema costatum (marine diatom)): 10 mg/l<br>Exposure time: 72 h |
| Toxicity to microorganisms | : | NOEC : > 100 mg/l<br>Exposure time: 3 h<br>Method: OECD Test Guideline 209<br>Remarks: Based on data from similar materials |
| Toxicity to fish (Chronic toxicity) | : | NOEC: > 0,1 - < 1 mg/l<br>Exposure time: 35 d<br>Species: Danio rerio (zebra fish)<br>Method: OECD Test Guideline 210<br>Remarks: Based on data from similar materials |
| Toxicity to daphnia and other aquatic invertebrates (Chron- | : | EL10: > 1 - 10 mg/l<br>Exposure time: 21 d |

| | | |
|---|---|---|
| ic toxicity) | | Species: Daphnia magna (Water flea)<br>Method: OECD Test Guideline 211<br>Remarks: Based on data from similar materials |

**Flumethrin:**

| | | |
|---|---|---|
| Toxicity to fish (Chronic toxicity) | : | NOEC: 0,046 mg/l<br>Exposure time: 144 h<br>Species: Danio rerio (zebra fish) |
| M-Factor (Chronic aquatic toxicity) | : | 1 |

**Toluene:**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Oncorhynchus kisutch (coho salmon)): 5,5 mg/l<br>Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Ceriodaphnia dubia (water flea)): 3,78 mg/l<br>Exposure time: 48 h |
| Toxicity to algae/aquatic plants | : | NOEC (Skeletonema costatum (marine diatom)): 10 mg/l<br>Exposure time: 72 h |
| Toxicity to microorganisms | : | EC50 (Nitrosomonas sp.): 84 mg/l<br>Exposure time: 24 h |
| Toxicity to fish (Chronic toxicity) | : | NOEC: 1,39 mg/l<br>Exposure time: 40 d<br>Species: Oncorhynchus kisutch (coho salmon) |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC: 0,74 mg/l<br>Exposure time: 7 d<br>Species: Ceriodaphnia dubia (water flea) |

### 12.2 Persistence and degradability

**Components:**

**Xylene:**

| | | |
|---|---|---|
| Biodegradability | : | Result: Readily biodegradable.<br>Biodegradation: > 70 %<br>Exposure time: 28 d<br>Method: OECD Test Guideline 301F<br>Remarks: Based on data from similar materials |

**Toluene:**

| | | |
|---|---|---|
| Biodegradability | : | Result: Readily biodegradable.<br>Biodegradation: 80 %<br>Exposure time: 20 d |

### 12.3 Bioaccumulative potential

**Components:**

**Paraffin oil:**

| | | |
|---|---|---|
| Partition coefficient: n-octanol/water | : | log Pow: > 4<br>Remarks: Calculation |

**Xylene:**

| | | |
|---|---|---|
| Partition coefficient: n-octanol/water | : | log Pow: 3,16<br>Remarks: Calculation |

**Flumethrin:**

| | | |
|---|---|---|
| Partition coefficient: n-octanol/water | : | log Pow: 6,2 |

**Toluene:**

| | | |
|---|---|---|
| Bioaccumulation | : | Species: Leuciscus idus (Golden orfe)<br>Bioconcentration factor (BCF): 90 |
| Partition coefficient: n-octanol/water | : | log Pow: 2,73 |

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

Not relevant

### 12.6 Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

| | | |
|---|---|---|
| Product | : | Dispose of in accordance with local regulations.<br>According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.<br>Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.<br>Do not dispose of waste into sewer. |
| Contaminated packaging | : | Empty containers should be taken to an approved waste handling site for recycling or disposal.<br>Empty containers retain residue and can be dangerous.<br>Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death.<br>If not otherwise specified: Dispose of as unused product. |

## SECTION 14: Transport information

### 14.1 UN number

| | | |
|---|---|---|
| **ADN** | : | UN 1992 |
| **ADR** | : | UN 1992 |
| **RID** | : | UN 1992 |
| **IMDG** | : | UN 1992 |
| **IATA** | : | UN 1992 |

### 14.2 UN proper shipping name

| | | |
|---|---|---|
| **ADN** | : | FLAMMABLE LIQUID, TOXIC, N.O.S. (Xylene, Flumethrin) |
| **ADR** | : | FLAMMABLE LIQUID, TOXIC, N.O.S. (Xylene, Flumethrin) |
| **RID** | : | FLAMMABLE LIQUID, TOXIC, N.O.S. (Xylene, Flumethrin) |
| **IMDG** | : | FLAMMABLE LIQUID, TOXIC, N.O.S. (Xylene, Flumethrin) |
| **IATA** | : | Flammable liquid, toxic, n.o.s. (Xylene, Flumethrin) |

### 14.3 Transport hazard class(es)

| | | Class | Subsidiary risks |
|---|---|---|---|
| **ADN** | : | 3 | 6.1 |
| **ADR** | : | 3 | 6.1 |
| **RID** | : | 3 | 6.1 |
| **IMDG** | : | 3 | 6.1 |
| **IATA** | : | 3 | 6.1 |

### 14.4 Packing group

**ADN**

| | | |
|---|---|---|
| Packing group | : | III |
| Classification Code | : | FT1 |
| Hazard Identification Number | : | 36 |
| Labels | : | 3 (6.1) |

**ADR**

| | | |
|---|---|---|
| Packing group | : | III |
| Classification Code | : | FT1 |
| Hazard Identification Number | : | 36 |
| Labels | : | 3 (6.1) |
| Tunnel restriction code | : | (D/E) |

**RID**

| | | |
|---|---|---|
| Packing group | : | III |

| | | |
|---|---|---|
| Classification Code | : | FT1 |
| Hazard Identification Number | : | 36 |
| Labels | : | 3 (6.1) |

**IMDG**

| | | |
|---|---|---|
| Packing group | : | III |
| Labels | : | 3 (6.1) |
| EmS Code | : | F-E, S-D |

**IATA (Cargo)**

| | | |
|---|---|---|
| Packing instruction (cargo aircraft) | : | 366 |
| Packing instruction (LQ) | : | Y343 |
| Packing group | : | III |
| Labels | : | Flammable Liquids, Toxic |

**IATA (Passenger)**

| | | |
|---|---|---|
| Packing instruction (passenger aircraft) | : | 355 |
| Packing instruction (LQ) | : | Y343 |
| Packing group | : | III |
| Labels | : | Flammable Liquids, Toxic |

### 14.5 Environmental hazards

**ADN**

| | | |
|---|---|---|
| Environmentally hazardous | : | no |

**ADR**

| | | |
|---|---|---|
| Environmentally hazardous | : | no |

**RID**

| | | |
|---|---|---|
| Environmentally hazardous | : | no |

**IMDG**

| | | |
|---|---|---|
| Marine pollutant | : | no |

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

| | | |
|---|---|---|
| Remarks | : | Not applicable for product as supplied. |

## SECTION 15: Regulatory information

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

| | | |
|---|---|---|
| KKDIK (30105 (Bis)) - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex 17) | : | Conditions of restriction for the following entries should be considered: Number on list 3<br><br>Substance(s) or mixture(s) are listed here according to their appearance |

in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the conditions in corresponding Regulation to determine whether an entry is applicable to the placing on the market or not.

Toluene (Number on list 48)

Regulation on Persistent Organic Pollutants (Number 30595 and subsequent amendments published) : Not applicable

Regulation on prevention of major industrial accidents. Reg number 30702

| | | Quantity 1 | Quantity 2 |
|---|---|---|---|
| P5c | FLAMMABLE LIQUIDS | 5.000 t | 50.000 t |

**Other regulations:**

T.R. Regulation on Classification, Labeling and Packaging of Substances and Mixtures, dated December 11, 2013 and numbered 28848 from the Ministry of Environment and Urbanization and the subsequent amendments published.

Regulation on health and safety measures regarding working with chemicals (Number: 28733, 2013). Occupational Exposure Limit Values (Annex 1)

Regulation on Import and Export of Certain Hazardous Chemicals, No. 32087, 2023 : Not applicable

**The components of this product are reported in the following inventories:**

AICS : not determined

DSL : not determined

IECSC : not determined

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

Other information : Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.
The SDS has been prepared by: Name: Gökhan Ardıç; Contact email: sds@chemleg.com; Telephone number: +90 216 706 1307; Certificate Number: Lonca KDU 34 / 2020.08; Certificate Date: 22 September 2020; Valid Until: 22 September 2025

**Full text of H-Statements**

H225 : Highly flammable liquid and vapour.

| | | |
|---|---|---|
| H226 | : | Flammable liquid and vapour. |
| H300 | : | Fatal if swallowed. |
| H304 | : | May be fatal if swallowed and enters airways. |
| H310 | : | Fatal in contact with skin. |
| H312 | : | Harmful in contact with skin. |
| H315 | : | Causes skin irritation. |
| H319 | : | Causes serious eye irritation. |
| H332 | : | Harmful if inhaled. |
| H335 | : | May cause respiratory irritation. |
| H336 | : | May cause drowsiness or dizziness. |
| H360D | : | May damage the unborn child. |
| H361d | : | Suspected of damaging the unborn child. |
| H370 | : | Causes damage to organs if swallowed. |
| H372 | : | Causes damage to organs through prolonged or repeated exposure if swallowed. |
| H373 | : | May cause damage to organs through prolonged or repeated exposure. |
| H410 | : | Very toxic to aquatic life with long lasting effects. |
| H412 | : | Harmful to aquatic life with long lasting effects. |
| H413 | : | May cause long lasting harmful effects to aquatic life. |

**The Turkish SDS has been prepared according to the Regulation on Safety Data Sheets for Hazardous Substances and Mixtures No. 29204.**

**Full text of other abbreviations**

| | | |
|---|---|---|
| Acute Tox. | : | Acute toxicity |
| Aquatic Chronic | : | Long-term (chronic) aquatic hazard |
| Asp. Tox. | : | Aspiration hazard |
| Eye Irrit. | : | Eye irritation |
| Flam. Liq. | : | Flammable liquids |
| Repr. | : | Reproductive toxicity |
| Skin Irrit. | : | Skin irritation |
| STOT RE | : | Specific target organ toxicity - repeated exposure |
| STOT SE | : | Specific target organ toxicity - single exposure |
| 2000/39/EC | : | Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values |
| 2006/15/EC | : | Europe. Indicative occupational exposure limit values |
| TR OEL | : | Türkiye. Chemical Agents at Work - Annex I: Indicative occupational exposure limit values |
| 2000/39/EC / TWA | : | Limit Value - eight hours |
| 2000/39/EC / STEL | : | Short term exposure limit |
| 2006/15/EC / TWA | : | Limit Value - eight hours |
| 2006/15/EC / STEL | : | Short term exposure limit |
| TR OEL / TWA (8 Hour) | : | Measured or calculated in relation to a reference period of eight-hour time-weighted average |
| TR OEL / STEL 15 min | : | A limit value above which exposure should not occur and is related to a 15-minute period, unless otherwise specified |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -

European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

**Further information**

| | | |
|---|---|---|
| Sources of key data used to compile the Safety Data Sheet | : | Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/ |

| **Classification of the mixture:** | | **Classification procedure:** |
|---|---|---|
| Flam. Liq. 3 | H226 | Based on product data or assessment |
| Acute Tox. 4 | H302 | Calculation method |
| Acute Tox. 3 | H311 | Calculation method |
| Skin Irrit. 2 | H315 | Calculation method |
| Eye Irrit. 2 | H319 | Calculation method |
| Repr. 1B | H360D | Calculation method |
| STOT SE 2 | H371 | Calculation method |
| STOT RE 2 | H373 | Calculation method |
| Asp. Tox. 1 | H304 | Calculation method |
| Aquatic Chronic 3 | H412 | Calculation method |

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

TR / EN