## Fast Fix Aktivator 150ml

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

* **1.1. Product identifier**

**Trade name/designation:**

Fast Fix Aktivator 150ml

**Article No.:**
T501012

**UFI:**
RUT0-4GKX-QQ8D-DE4H

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

**Use of the substance/mixture:**
Activator

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

**Supplier:**


**KANDO Service GmbH**
Hartleitnerstraße 3
4653 Eberstalzell
Austria
**Telephone:** +43 (0) 7241 213 79
**E-mail:** msds@kando.eu


**1.4. Emergency telephone number**

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

## SECTION 2: Hazards identification

* **2.1. Classification of the substance or mixture**

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

| Hazard classes and hazard categories | Hazard statements | Classification procedure |
|---|---|---|
| aerosol dispensers and lighters *(Aerosol 1)* | H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated. | On basis of test data. |
| Aspiration hazard *(Asp. Tox. 1)* | H304: May be fatal if swallowed and enters airways. | Calculation method. |
| Skin corrosion/irritation *(Skin Irrit. 2)* | H315: Causes skin irritation. | Calculation method. |
| STOT-single exposure *(STOT SE 3)* | H336: May cause drowsiness or dizziness. | Calculation method. |
| Carcinogenicity *(Carc. 1B)* | H350: May cause cancer. ( ) | Calculation method. |
| Hazardous to the aquatic environment *(Aquatic Chronic 2)* | H411: Toxic to aquatic life with long lasting effects. | Calculation method. |

* 

## 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

**Hazard pictograms:**



**GHS08**
Health hazard



**GHS09**
Environment



**GHS07**
Exclamation mark



**GHS02**
Flame

**Signal word:** Danger

**Hazard components for labelling:**
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, <5% n-hexane; N,N-dimethyl-p-toluidine

| Hazard statements for physical hazards | |
|---|---|
| H222 | Extremely flammable aerosol. |
| H229 | Pressurised container: May burst if heated. |

| Hazard statements for health hazards | |
|---|---|
| H315 | Causes skin irritation. |
| H336 | May cause drowsiness or dizziness. |
| H350 | May cause cancer. ( ) |

| Hazard statements for environmental hazards | |
|---|---|
| H411 | Toxic to aquatic life with long lasting effects. |

**Supplemental hazard information:** none

| Precautionary statements Prevention | |
|---|---|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P211 | Do not spray on an open flame or other ignition source. |
| P251 | Do not pierce or burn, even after use. |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves and eye protection/face protection. |

| Precautionary statements Response | |
|---|---|
| P302 + P352 | IF ON SKIN: Wash with plenty of water and soap. |
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P312 | Call a POISON CENTER/doctor/ if you feel unwell. |

| Precautionary statements Storage | |
|---|---|
| P403 | Store in a well-ventilated place. |
| P410 + P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |

| Precautionary statements Disposal | |
|---|---|
| P501 | Dispose of the contents / container in accordance with local / regional / national / international regulations. |

**Additional information:**
Formation of explosive mixtures possible without adequate ventilation.

## 2.3. Other hazards

**Other adverse effects:**
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## SECTION 3: Composition/information on ingredients

* 
### 3.2. Mixtures

**Additional information:**
Aerosols and containers fitted with a solid nebuliser containing substances or mixtures classified as hazardous by aspiration must not be labelled for this hazard.

**Hazardous ingredients / Hazardous impurities / Stabilisers:**

| Product identifiers | Substance name<br>Classification according to Regulation (EC) No 1272/2008 [CLP] | Concentration |
|---|---|---|
| EC No.: 921-024-6<br>REACH No.:<br>01-2119475514-35 | **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, <5% n-hexane**<br>Aquatic Chronic 2 (H411), Asp. Tox. 1 (H304), Flam. Liq. 2 (H225), STOT SE 3 (H336), Skin Irrit. 2 (H315)<br> Danger<br>**Acute Toxicity Estimate**<br>ATE (oral) > 5,000 mg/kg<br>ATE (dermal) > 2,920 mg/kg<br>ATE (inhalation, gases) > 20 ppmV<br>ATE (inhalation, vapour) > 25.2 mg/L | 50 – < 75 % |
| CAS No.: 99-97-8<br>EC No.: 202-805-4<br>REACH No.:<br>01-2119956633-31 | **N,N-dimethyl-p-toluidine**<br>Acute Tox. 3 (H301, H311), Acute Tox. 4 (H332), Aquatic Chronic 3 (H412), Carc. 1B (H350), STOT RE 2 (H373)<br> Danger<br>**Acute Toxicity Estimate**<br>ATE (oral) 100 mg/kg<br>ATE (dermal) 300 mg/kg<br>ATE (inhalation, vapour) 11 mg/L<br>ATE (inhalation, dust/mist) 1.5 mg/L | 0.1 – < 1 % |

*Full text of H- and EUH-phrases: see section 16.*

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Following inhalation:**
If unconscious, position and transport in stable lateral position.

**In case of skin contact:**
Wash off immediately with soap and water and rinse well.

**After eye contact:**
Rinse opened eye for several minutes under running water. Consult a doctor if symptoms persist

**Following ingestion:**
Do not induce vomiting, seek medical help immediately.

### 4.2. Most important symptoms and effects, both acute and delayed
No further relevant information available.

### 4.3. Indication of any immediate medical attention and special treatment needed
No further relevant information available.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media:**
Water mist, Extinguishing powder, Carbon dioxide (CO2), alcohol resistant foam

**Unsuitable extinguishing media:**
Water in full jet

### 5.2. Special hazards arising from the substance or mixture
No further relevant information available.

### 5.3. Advice for firefighters
Special protective equipment: Put on breathing apparatus.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

**Personal precautions:**
Wear protective equipment. Keep unprotected persons away.

#### 6.1.2. For emergency responders

No data available

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of spillage into water or sewage system, inform the competent authorities.

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

**For cleaning up:**
Do not wash away with water or aqueous detergents.

**Other information:**
Provide adequate ventilation.

### 6.4. Reference to other sections

Further information on proper storage: see section 7.
For further information on personal protective equipment: see section 8.
For further information on disposal: see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures

**Advices on safe handling:**
Ensure good ventilation/extraction at the workplace.

**Fire prevent measures:**
Do not spray against a flame or on a glowing object. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Container is under pressure. Protect from sunlight and temperatures above 50°C (e.g. from incandescent lamps). Do not open by force or burn even after use.

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

**Requirements for storage rooms and vessels:**
Store in a cool place. The official regulations for the storage of pressurised gas packages must be observed.

**Hints on storage assembly:**
The official regulations for the storage of pressurised gas packages must be observed.

**Further information on storage conditions:**
Store in a cool, dry place in well-sealed containers. Protect from heat and direct sunlight.

### 7.3. Specific end use(s)

**Recommendation:**
No further relevant information available.

## SECTION 8: Exposure controls/personal protection

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### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

No data available

#### 8.1.2. Biological limit values

No data available

### 8.1.3. DNEL-/PNEC-values

| Substance name | DNEL value | ① DNEL type<br>② Exposure route |
|---|---|---|
| **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, <5% n-hexane**<br>EC No.: 921-024-6 | 2,035 mg/m³ | ① DNEL worker<br>② Long-term – inhalation, systemic effects |
| **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, <5% n-hexane**<br>EC No.: 921-024-6 | 608 mg/m³ | ① DNEL Consumer<br>② Long-term – inhalation, systemic effects |
| **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, <5% n-hexane**<br>EC No.: 921-024-6 | 773 mg/kg bw/day | ① DNEL worker<br>② Long-term - dermal, systemic effects |
| **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, <5% n-hexane**<br>EC No.: 921-024-6 | 300 mg/kg bw/day | ① DNEL worker<br>② Long-term - dermal, systemic effects |
| **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, <5% n-hexane**<br>EC No.: 921-024-6 | 699 mg/kg bw/day | ① DNEL Consumer<br>② Long-term - dermal, systemic effects |
| **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, <5% n-hexane**<br>EC No.: 921-024-6 | 699 mg/kg bw/day | ① DNEL Consumer<br>② Long-term - oral, systemic effects |

* 
## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls
No further details. See section 7.

### 8.2.2. Personal protection equipment



**Eye/face protection:**
Safety goggles (EN-166)

**Skin protection:**
Hand protection:
Wear gloves for protection against chemicals according to EN 374.
Gloves / solvent resistant; Selection of glove material considering breakthrough times, permeation rates and degradation.
Glove material: The selection of a suitable glove depends not only on the material but also on other quality features and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use.
NBR (Nitrile rubber); Recommended material thickness: ≥ 0,5 mm
Penetration time of the glove material: For continuous contact we recommend gloves with a breakthrough time of at least 240 minutes, with the preference for a breakthrough time greater than 480 minutes. For short term or splash protection we recommend the same. We are aware that suitable gloves offering this protection are not available. In this case, a shorter breakthrough time is permissible, provided the procedures for maintenance and timely replacement are followed. The thickness of the gloves is not a good measure of the resistance the gloves give against a chemical substance, as this depends on the exact composition of the material of the gloves. The exact breakthrough time should be checked with the glove manufacturer and adhered to.

Body protection:
Use protective suit. (EN-13034/6)
It is recommended to wear antistatic, chemical and oil-resistant clothing and safety shoes that completely cover the skin. (EN1149; EN340&EN ISO 13688; EN13034-6).

**Respiratory protection:**
In case of inadequate ventilation wear respiratory protection. Filter ABEK-P2

**Other protection measures:**
General protective and hygienic measures: Keep away from food, drink and animal feed. Remove contaminated, saturated clothing immediately. Wash hands before breaks and after work. Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin. General ventilation.

### 8.2.3. Environmental exposure controls
Use a suitable container to prevent environmental pollution.

## SECTION 9: Physical and chemical properties

* 
### 9.1. Information on basic physical and chemical properties

**Appearance**

**Physical state:** Liquid
**Form:** Aerosol
**Colour:** According to product designation
**Odour:** characteristic
**flammability:** No data available

**Safety relevant basis data**

| Parameter | Value | at °C | ① Method<br>② Remark |
|---|---|---|---|
| pH | *not applicable* | | ② Mixture is not polar/aprotic. |
| Melting point | *No data available* | | |
| Freezing point | *No data available* | | |
| Initial boiling point and boiling range | -44.5 °C | | |
| Flash point | -97 °C | | |
| Evaporation rate | *No data available* | | |
| Auto-ignition temperature | > 200 °C | | |
| Upper/lower flammability or explosive limits | 0.8 – 10.9 Vol-% | | |
| Vapour pressure | 3,100 hPa | 20 °C | ② < 6500 hPa (50°C) |
| Vapour density | *No data available* | | |
| Density | 0.638 g/cm³ | 20 °C | |
| Bulk density | *not applicable* | | |
| Water solubility | Immiscible | | |
| Dynamic viscosity | *No data available* | | |
| Kinematic viscosity | ≤ 20.5 mm²/s | 40 °C | ② (L) |
| flammability | | | ② Easily flammable |

* 
### 9.2. Other information
The product is not self-igniting. The product is not explosive, but the formation of explosive vapour/air mixtures is possible. formation of explosive vapour/air mixtures is possible.
Organic solvents: 99,8 %

### 9.2.1. Information with regard to physical hazard classes
**Aerosols:**
Extremely flammable aerosol. Pressurized container: May burst if heated.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity
No further relevant information available.

### 10.2. Chemical stability
Thermal decomposition / Conditions to avoid: No decomposition when used as directed.

### 10.3. Possibility of hazardous reactions
No dangerous reactions known.

### 10.4. Conditions to avoid
No further relevant information available.

### 10.5. Incompatible materials
No further relevant information available.

### 10.6. Hazardous decomposition products
No dangerous decomposition products known.

## SECTION 11: Toxicological information

* 
### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

| **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, <5% n-hexane** EC No.: 921-024-6 |
|---|
| **$LD_{50}$ oral:** >5,000 mg/kg (Rat) OECD 401 |
| **$LD_{50}$ dermal:** >2,920 mg/kg (Rabbit) |
| **$LC_{50}$ Acute inhalation toxicity (gas):** >20 ppmV 4 h (Rat) OECD 403 |
| **$LC_{50}$ Acute inhalation toxicity (vapour):** >25.2 mg/L 4 h (Rat) |

**Acute oral toxicity:**
Based on available data, the classification criteria are not met.
**Acute dermal toxicity:**
Based on available data, the classification criteria are not met.
**Acute inhalation toxicity:**
Based on available data, the classification criteria are not met.
**Skin corrosion/irritation:**
Causes skin irritation.
**Serious eye damage/irritation:**
Based on available data, the classification criteria are not met.
**Respiratory or skin sensitisation:**
Based on available data, the classification criteria are not met.
**Germ cell mutagenicity:**
Based on available data, the classification criteria are not met.
**Carcinogenicity:**
May cause cancer.
**Reproductive toxicity:**
Based on available data, the classification criteria are not met.
**STOT-single exposure:**
May cause drowsiness or dizziness.
**STOT-repeated exposure:**
Based on available data, the classification criteria are not met.
**Aspiration hazard:**
May be fatal if swallowed and enters airways.

### 11.2. Information on other hazards
**Endocrine disrupting properties:**
None of the ingredients are included.

## SECTION 12: Ecological information

### * 12.1. Toxicity

| **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, <5% n-hexane** EC No.: 921-024-6 |
|---|
| **$LC_{50}$:** 11.4 mg/L 4 d (fish, Oncorhynchus mykiss) OECD 203 |
| **$EC_{50}$:** 3 mg/L 2 d (crustaceans, Daphnia magna) OECD 202 |
| **NOEC:** 0.17 mg/L 21 d (crustaceans, Daphnia magna) |
| **LOEC:** 0.32 mg/L 21 d (crustaceans, Daphnia magna) |
| **$EC_{50}$:** 30 – 100 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) |
| **$LC_{50}$:** >1 – 10 mg/L 4 d (fish, Pimephales promelas) |
| **$EC_{50}$:** >1 – 10 mg/L 2 d (crustaceans, Daphnia magna) |
| **NOEC:** 2.045 mg/L 28 d (fish, Oncorhynchus mykiss) |
| **NOEC:** 1 mg/L 21 d (crustaceans, Daphnia magna) OECD 211 |
| **$ErC_{50}$:** 10 – 30 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD 201 |
| **LOEC:** 0.32 mg/L 21 d (Daphnia magna) |
| **$LC_{50}$:** 11.4 mg/L 4 d (fish) |

### * 12.2. Persistence and degradability

| **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, <5% n-hexane** EC No.: 921-024-6 |
|---|
| **Biodegradation:** Yes, rapidly |

**Biodegradation:**
Not readily biodegradable.

### * 12.3. Bioaccumulative potential

| **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, <5% n-hexane** EC No.: 921-024-6 |
|---|
| **Log $K_{OW}$:** 5.2 |
| **Bioconcentration factor (BCF):** 250 |

### 12.4. Mobility in soil
No data available

### * 12.5. Results of PBT and vPvB assessment

| **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, <5% n-hexane** EC No.: 921-024-6 |
|---|
| **Results of PBT and vPvB assessment:** — |
| **N,N-dimethyl-p-toluidine** CAS No.: 99-97-8 EC No.: 202-805-4 |
| **Results of PBT and vPvB assessment:** — |

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Endocrine disrupting properties
The product does not contain any substances with endocrine-disrupting properties.

### 12.7. Other adverse effects
water hazard class 3: highly hazardous to water
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
Drinking water hazard even when small quantities leak into the subsoil.
Also toxic to fish and plankton in water.
Toxic to aquatic life.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods
Must not be disposed of together with household waste. Do not allow to enter drains/surface water/ ground water.

### 13.1.1. Product/Packaging disposal

### Waste codes/waste designations according to EWC/AVV

**Waste code product**

| | |
|---|---|
| 07 01 04 * | other organic solvents, washing liquids and mother liquors |
| 20 01 99 | Other fractions not otherwise specified |

**: Evidence for disposal must be provided.*

**Directive 2008/98/EC (Waste Framework Directive)**

| | |
|---|---|
| HP 3 | Flammable |
| HP 4 | Irritant — skin irritation and eye damage |
| HP 5 | Specific Target Organ Toxicity (STOT)/Aspiration Toxicity |
| HP 7 | carcinogenic |
| HP 14 | Ecotoxic |

### Waste treatment options

**Appropriate disposal / Package:**

Dispose of waste according to applicable legislation.

## SECTION 14: Transport information

| Land transport (ADR/RID) | Inland waterway craft (ADN) | Sea transport (IMDG) | Air transport (ICAO-TI / IATA-DGR) |
|---|---|---|---|
| **14.1. UN number or ID number** | | | |
| UN 1950 | UN 1950 | UN 1950 | UN 1950 |
| **14.2. UN proper shipping name** | | | |
| AEROSOLS, ENVIRONMENTALLY HAZARDOUS | AEROSOLS, ENVIRONMENTALLY HAZARDOUS | AEROSOLS, MARINE POLLUTANT (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane) | AEROSOLS, Flammable |
| **14.3. Transport hazard class(es)** | | | |
|  2.1 |  2.1 |  2.1 |  2.1 |
| **14.4. Packing group** | | | |
| | | - | |
| **14.5. Environmental hazards** | | | |
|  |  |  MARINE POLLUTANT |  |
| * **14.6. Special precautions for user** | | | |
| **Excepted Quantities (EQ):** E0<br>**Classification code:** 5F<br>**Tunnel restriction code:** (D)<br>**Remark:** Attention: Gases Transport category 2 The product contains environmentally hazardous substances: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, <5% n-hexane | **Classification code:** -<br>**Remark:** Attention: Gases The product contains environmentally hazardous substances: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, <5% n-hexane | **Limited quantity (LQ):** 1L<br>**Excepted Quantities (EQ):** E0<br>**EmS-No.:** F-D,S-U<br>**Remark:** Attention: Gases The product contains environmentally hazardous substances: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, <5% n-hexane Stowage Code: | **Remark:** Attention: Gases The product contains environmentally hazardous substances: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, <5% n-hexane |

| Land transport (ADR/RID) | Inland waterway craft (ADN) | Sea transport (IMDG) | Air transport (ICAO-TI / IATA-DGR) |
|---|---|---|---|
| | | SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters. Segregation Code: SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2. | |

### 14.7. Maritime transport in bulk according to IMO instruments
not applicable

## SECTION 15: Regulatory information

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

### 15.1.1. EU legislation

**Restrictions on use:**

Directive 2012/18/EU
Named dangerous substances - ANNEX I: None of the ingredients are included.
Quantity threshold (in tons) for use in lower class farms 150t
Quantity threshold (in tons) for use in upper-tier establishments 500t
Regulation (EC) No 1907/2006 ANNEX XVII: Restriction conditions: 3, 28
Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II: None of the ingredients are included.
Regulation (EU) 2019/1148
Annex I - RESTRICTED EXPORT SUBSTANCES FOR EXPLOSIVES (upper concentration limit for a permit pursuant to Article 5(3)): None of the ingredients are included.
Annex II - EXPLOSIVES REPORTABLE FOR EXPLOSIVES: None of the ingredients are included.
Regulation (EC) No 273/2004 on drug precursors: None of the ingredients are included.
Regulation (EC) No 111/2005 laying down rules for the monitoring of trade in drug precursors between the Community and third countries: None of the ingredients are included.

**Other regulations (EU):**

Hazard categories:
• P3a 'Flammable' aerosols Category 1 or 2, containing flammable gases Category 1 or 2 or flammable liquids
• E2 Hazardous to the Aquatic Environment in Category Chronic 2

Named dangerous substances:
• Liquefied flammable gases, Category 1 or 2 (including liquefied petroleum gas) and natural gas

**Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:**

Volatile organic compounds (VOC) content in percent by weight: 636.5 g/L

### 15.1.2. National regulations
No data available

### 15.2. Chemical Safety Assessment
A chemical safety assessment has not been carried out.

## SECTION 16: Other information

* **16.1. Indication of changes**

| | |
|---|---|
| 1.1. | Product identifier |
| 1.3. | Details of the supplier of the safety data sheet |
| 2.1. | Classification of the substance or mixture |
| 2.2. | Label elements |
| 3.2. | Mixtures |
| 7.2. | Conditions for safe storage, including any incompatibilities |
| 8.1. | Control parameters |
| 8.2. | Exposure controls |
| 9.1. | Information on basic physical and chemical properties |
| 9.2. | Other information |
| 11.1. | Information on hazard classes as defined in Regulation (EC) No 1272/2008 |
| 12.1. | Toxicity |
| 12.2. | Persistence and degradability |
| 12.3. | Bioaccumulative potential |
| 12.5. | Results of PBT and vPvB assessment |
| 14.6. | Special precautions for user |
| 15.1. | Safety, health and environmental regulations/legislation specific for the substance or mixture |
| 16.1. | Indication of changes |
| 16.2. | Abbreviations and acronyms |
| 16.4. | Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP] |
| 16.5. | List of relevant hazard statements and/or precautionary statements from sections 2 to 15 |

* **16.2. Abbreviations and acronyms**

| | |
|---|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| BCF | Bioconcentration Factor |
| CAS | Chemical Abstracts Service |
| CLP | Classification, Labelling and Packaging |
| DNEL | derived no-effect level |
| $EC_{50}$ | Effective Concentration 50% |
| EN | European Standard |
| EWC | European Waste Catalogue |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods |
| IMO | International Maritime Organization |
| KG | body weight |
| $LC_{50}$ | Lethal (fatal) Concentration 50% |
| $LD_{50}$ | Lethal (fatal) Dose 50% |
| NFPA | National Fire Protection Association |
| NOEC | No Observed Effect Concentration |
| OECD | Organisation for Economic Cooperation and Development |
| PBT | persistent and bioaccumulative and toxic |
| PNEC | Predicted No Effect Concentration |
| REACH | Registration, Evaluation and Authorization of Chemicals |
| RID | Dangerous goods regulations for transport by rail |
| UN | United Nations |
| VOC | Volatile organic compounds |

### 16.3. Key literature references and sources for data
No data available

### * 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

| Hazard classes and hazard categories | Hazard statements | Classification procedure |
|---|---|---|
| aerosol dispensers and lighters *(Aerosol 1)* | H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated. | On basis of test data. |
| Aspiration hazard *(Asp. Tox. 1)* | H304: May be fatal if swallowed and enters airways. | Calculation method. |
| Skin corrosion/irritation *(Skin Irrit. 2)* | H315: Causes skin irritation. | Calculation method. |
| STOT-single exposure *(STOT SE 3)* | H336: May cause drowsiness or dizziness. | Calculation method. |
| Carcinogenicity *(Carc. 1B)* | H350: May cause cancer. ( ) | Calculation method. |
| Hazardous to the aquatic environment *(Aquatic Chronic 2)* | H411: Toxic to aquatic life with long lasting effects. | Calculation method. |

### * 16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

| Hazard statements | |
|---|---|
| H225 | Highly flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |
| H315 | Causes skin irritation. |
| H332 | Harmful if inhaled. |
| H336 | May cause drowsiness or dizziness. |
| H350 | May cause cancer. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

### 16.6. Training advice
No data available

### 16.7. Additional information
To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.

* Data changed compared with the previous version.