

| Version | Revision Date: | SDS Number:  | Date of last issue: 25.10.2016  |
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

| 1.1 Product identifier |                |
|------------------------|----------------|
| Trade name             | : Boltex spray |
| Product code           | : 0893 250 250 |

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

| Use of the Sub- | : Detergent, Cleaning agent, Surface treatment |
|-----------------|--|
| stance/Mixture  |  |

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

| Company  | : | Würth Norge AS<br>Gjelleråsen Næringspark, Mortevn 12<br>1481 Hagan |
|--|---|---|
| Telephone  | : | +47 464 01 500  |
| Telefax  | : | +47 464 01 501  |
| E-mail address of person responsible for the SDS | : | prodsafe@wuerth.com   |

#### 1.4 Emergency telephone number

+47 2259 1300

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1

H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated.

## 2.2 Label elements

## Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word

Danger

2

:

Hazard statements

H222 Extremely flammable aerosol.



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|                |                           | H229 Pressur                     | ised container: May burst if heated.   |
| Preca          | utionary statements       | Prevention:                      |  |
|                |                           | flames and othe<br>P211 Do not s | way from heat, hot surfaces, sparks, open<br>er ignition sources. No smoking.<br>spray on an open flame or other ignition source.<br>pierce or burn, even after use. |
|                |                           | Storage:                         |  |
|                |                           |                                  | Protect from sunlight. Do not expose to tem-<br>eding 50 °C/ 122 °F.   |

## 2.3 Other hazards

May displace oxygen and cause rapid suffocation.

## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

## Hazardous components

| Chemical name                        | CAS-No.<br>EC-No.   | Classification    | Concentration<br>(% w/w) |
|--------------------------------------|---------------------|-------------------|--------------------------|
|                                      | Index-No.           |                   |                          |
|                                      | Registration number |                   |                          |
| Ethanol                              | 64-17-5             | Flam. Liq.2; H225 | >= 30 - < 50             |
|                                      | 200-578-6           | Eye Irrit.2; H319 |                          |
|                                      | 603-002-00-5        |                   |                          |
| Acetylacetone                        | 123-54-6            | Flam. Liq.3; H226 | >= 1 - < 10              |
|                                      | 204-634-0           | Acute Tox.4; H302 |                          |
|                                      | 606-029-00-0        | Acute Tox.3; H331 |                          |
|                                      |                     | Acute Tox.3; H311 |                          |
| Methyl salicylate                    | 119-36-8            | Acute Tox.4; H302 | >= 1 - < 10              |
|                                      | 204-317-7           |                   |                          |
| Substances with a workplace exposu   | e limit :           |                   |                          |
| 1-Methoxy-2-propanol                 | 107-98-2            | Flam. Liq.3; H226 | >= 1 - < 10              |
|                                      | 203-539-1           | STOT SE3; H336    |                          |
|                                      | 603-064-00-3        | ,                 |                          |
| 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 ad-<br>vice immediately.<br>When symptoms persist or in all cases of doubt seek medical<br>advice. |
|----------------------------|---|--|
| Protection of first-aiders | : | First Aid responders should pay attention to self-protection,  |



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|---------------|-----------------------------|-------------------------------|---|--|--|--|
|               |                             |                               |   |  |  |  |
|               |                             |                               |   |  | nmended personal protective equipment<br>I for exposure exists.  |  |
| If inhaled    |                             | :                             | If inhaled, remove<br>Get medical atten | e to fresh air.<br>tion if symptoms occur.               |  |  |
| In            | case of skin                | contact                       | :                                       |  | In case of contact, immediately flush skin with plenty of water.<br>Get medical attention if symptoms occur.   |  |
| In            | case of eye                 | contact                       | :                                       |  | ater as a precaution.<br>tion if irritation develops and persists.   |  |
| lf            | swallowed                   |                               | :                                       |  | NOT induce vomiting.<br>tion if symptoms occur.<br>oughly with water.  |  |
|               | ost important<br>one known. | : symptoms ai                 | nd e                                    | effects, both acute                                      | e and delayed  |  |
| 4.3 Inc       | dication of ar              | ny immediate                  | med                                     | dical attention and                                      | I special treatment needed   |  |
| Tı            | reatment                    |                               | :                                       | Treat symptomati   | cally and supportively.  |  |
| SECT          | ION 5: Firef                | ighting mea                   | sur                                     | es   |  |  |
|               |                             |                               |   |  |  |  |
|               | tinguishing i               | <b>nedia</b><br>uishing media | :                                       | Water spray  |  |  |
|               |                             |                               |   | Alcohol-resistant f<br>Carbon dioxide (C<br>Dry chemical |  |  |
|               | nsuitable exti<br>edia      | nguishing                     | :                                       | None known.  |  |  |
| 5.2 Sp        | ecial hazard                | s arising from                | the                                     | e substance or mix                                       | kture  |  |
|               | pecific hazarc<br>ghting    | ls during fire-               | :                                       | Vapours may forn<br>Exposure to comb                     | ble over considerable distance.<br>In explosive mixtures with air.<br>Doustion products may be a hazard to health.<br>It rises there is danger of the vessels bursting<br>apor pressure. |  |
|               | azardous con<br>cts         | nbustion prod-                | :                                       | Carbon oxides  |  |  |
| 5.3 Ad        | vice for firef              | iahters                       |   |  |  |  |
| S             |                             | ive equipment                 | :                                       |  | e, wear self-contained breathing apparatus.<br>ective equipment.   |  |



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|                |                           |   |  |
| Spec<br>ods    | ific extinguishing meth-  | cumstances a<br>Use water spi   | hing measures that are appropriate to local cir-<br>and the surrounding environment.<br>ray to cool unopened containers.<br>amaged containers from fire area if it is safe to do<br>a.   |
| SECTION        | N 6: Accidental relea     | se measures   |  |
| 6.1 Perso      | nal precautions, prote    | ctive equipment a   | nd emergency procedures  |
| Perso          | onal precautions          | Use personal  | ources of ignition.<br>protective equipment.<br>andling advice and personal protective equip-<br>iendations.   |
| 6.2 Enviro     | onmental precautions      |   |  |
| Envir          | onmental precautions      | Prevent furthe<br>Prevent sprea<br>barriers).<br>Retain and dis   | o the environment must be avoided.<br>er leakage or spillage if safe to do so.<br>ading over a wide area (e.g. by containment or oil<br>spose of contaminated wash water.<br>ies should be advised if significant spillages<br>ntained.  |
| 6.3 Metho      | ods and material for co   | ntainment and cle   | eaning up  |
| Meth           | ods for cleaning up       | Soak up with<br>Suppress (kn<br>spray jet.<br>For large spill<br>ment to keep<br>be pumped, s<br>Clean up rem<br>bent.<br>Local or natio<br>posal of this n | tools should be used.<br>inert absorbent material.<br>ock down) gases/vapours/mists with a water<br>s, provide dyking or other appropriate contain-<br>material from spreading. If dyked material can<br>tore recovered material in appropriate container.<br>aining materials from spill with suitable absor-<br>nal regulations may apply to releases and dis-<br>naterial, as well as those materials and items<br>be closure of releases. You will need to deter |

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

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



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|--|-------------------------|--------------------------------------|-------------------|---|--|
|  | Techni                  | ical measures                        | :                 |   | measures under EXPOSURE<br>RSONAL PROTECTION section.  |
|  | Local/Total ventilation |                                      | :                 | Use with local ex   |  |
|  | Advice                  | on safe handling                     | :                 | Do not swallow.<br>Avoid contact wit<br>Avoid prolonged<br>Handle in accord<br>practice.<br>Keep away from<br>Take precautiona<br>Take care to prevention | apours or spray mist.<br>h eyes.<br>or repeated contact with skin.<br>ance with good industrial hygiene and safety<br>heat and sources of ignition.<br>ary measures against static discharges.<br>yent spills, waste and minimize release to the |
|  | Hygier                  | ne measures                          | :                 | located close to t  | lushing systems and safety showers are<br>he working place. When using do not eat,<br>Vash contaminated clothing before re-use.  |
| 7.2  | Conditi                 | ons for safe storage,                | inc               | luding any incom  | patibilities   |
|  |                         | ements for storage<br>and containers | :                 | accordance with   | Keep in a cool, well-ventilated place. Store in<br>the particular national regulations. Do not<br>ven after use. Keep cool. Protect from sun-  |
|  | Advice                  | e on common storage                  | :                 | Self-reactive sub<br>Organic peroxide<br>Oxidizing agents<br>Flammable solids<br>Pyrophoric liquid<br>Pyrophoric solids<br>Self-heating subs              | s<br>s<br>stances and mixtures<br>mixtures, which in contact with water, emit  |
|  | Recom<br>peratu         | nmended storage tem-<br>re           | :                 | 5 - 25 °C   |  |
|  | Other                   | data                                 | :                 | Protect from fros   | t, heat and sunlight.  |
| 7.3 Specific end use(s)<br>Specific use(s) |                         | :                                    | No data available |   |  |



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

#### 8.1 Control parameters

## **Occupational Exposure Limits**

| <u> </u>            |   |                               |                    |            |  |
|---------------------|---|-------------------------------|--------------------|------------|--|
| Components          | CAS-No.   | Value type (Form of exposure) | Control parameters | Basis      |  |
| Ethanol             | 64-17-5   | TWA                           | 500 ppm            | FOR-2011-  |  |
|                     |   |                               | 950 mg/m3          | 12-06-1358 |  |
| Butane              | 106-97-8  | TWA                           | 250 ppm            | FOR-2011-  |  |
|                     |   |                               | 600 mg/m3          | 12-06-1358 |  |
| Propane             | 74-98-6   | TWA                           | 500 ppm            | FOR-2011-  |  |
|                     |   |                               | 900 mg/m3          | 12-06-1358 |  |
| 1-Methoxy-2-        | 107-98-2  | TWA                           | 50 ppm             | FOR-2011-  |  |
| propanol            |   |                               | 180 mg/m3          | 12-06-1358 |  |
| Further information | The EU has set an indicative limit value for this substance, Chemicals that can |                               |                    |            |  |
|                     | be absorbed t   | be absorbed through the skin. |                    |            |  |
|                     |   | STEL                          | 150 ppm            | 2000/39/EC |  |
|                     |   |                               | 568 mg/m3          |            |  |
| Further information | Identifies the possibility of significant uptake through the skin, Indicative   |                               |                    |            |  |
|                     |   | TWA                           | 100 ppm            | 2000/39/EC |  |
|                     |   |                               | 375 mg/m3          |            |  |
| Further information |   |                               |                    |            |  |

## Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name     | End Use   | Exposure routes | Potential health ef-<br>fects | Value                 |
|--------------------|-----------|-----------------|-------------------------------|-----------------------|
| Ethanol            | Workers   | Inhalation      | Acute local effects           | 1900 mg/m3            |
|                    | Workers   | Skin contact    | Long-term systemic effects    | 343 mg/kg<br>bw/day   |
|                    | Workers   | Inhalation      | Long-term systemic effects    | 950 mg/m3             |
|                    | Consumers | Inhalation      | Acute local effects           | 950 mg/m3             |
|                    | Consumers | Skin contact    | Long-term systemic effects    | 206 mg/kg<br>bw/day   |
|                    | Consumers | Inhalation      | Long-term systemic effects    | 114 mg/m3             |
|                    | Consumers | Ingestion       | Long-term systemic effects    | 87 mg/kg<br>bw/day    |
| Ethyl Acetoacetate | Workers   | Inhalation      | Long-term systemic effects    | 29,1667<br>mg/m3      |
|                    | Workers   | Skin contact    | Long-term systemic effects    | 8,333 mg/kg<br>bw/day |
|                    | Consumers | Inhalation      | Long-term systemic effects    | 6,25 mg/m3            |
|                    | Consumers | Skin contact    | Long-term systemic effects    | 4,167 mg/kg<br>bw/day |
|                    | Consumers | Ingestion       | Long-term systemic            | 4,167 mg/kg           |



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|                |                           |                             |   |  |

|                      |           |              | effects                       | bw/day               |
|----------------------|-----------|--------------|-------------------------------|----------------------|
| 1-Methoxy-2-propanol | Workers   | Inhalation   | Long-term systemic effects    | 369 mg/m3            |
|                      | Workers   | Inhalation   | Acute local effects           | 553,5 mg/m3          |
|                      | Workers   | Skin contact | Long-term systemic effects    | 50,6 mg/kg<br>bw/day |
|                      | Consumers | Inhalation   | Long-term systemic effects    | 43,9 mg/m3           |
|                      | Consumers | Skin contact | Long-term systemic effects    | 18,1 mg/kg<br>bw/day |
|                      | Consumers | Ingestion    | Long-term systemic<br>effects | 3,3 mg/kg<br>bw/day  |
| Acetylacetone        | Workers   | Inhalation   | Long-term systemic effects    | 84 mg/m3             |
|                      | Workers   | Skin contact | Long-term systemic effects    | 12 mg/kg<br>bw/day   |
|                      | Consumers | Inhalation   | Long-term systemic<br>effects | 24,7 mg/m3           |
|                      | Consumers | Skin contact | Long-term systemic<br>effects | 8,4 mg/kg<br>bw/day  |
|                      | Consumers | Ingestion    | Long-term systemic<br>effects | 8,4 mg/kg<br>bw/day  |
| Methyl salicylate    | Workers   | Inhalation   | Long-term systemic<br>effects | 17,5 mg/m3           |
|                      | Workers   | Inhalation   | Acute systemic ef-<br>fects   | 285 mg/m3            |
|                      | Workers   | Skin contact | Long-term systemic<br>effects | 6 mg/kg<br>bw/day    |
|                      | Consumers | Inhalation   | Long-term systemic<br>effects | 4 mg/m3              |
|                      | Consumers | Inhalation   | Acute systemic ef-<br>fects   | 213 mg/m3            |
|                      | Consumers | Skin contact | Long-term systemic<br>effects | 3 mg/kg<br>bw/day    |
|                      | Consumers | Ingestion    | Long-term systemic effects    | 1 mg/kg<br>bw/day    |
|                      | Consumers | Ingestion    | Acute systemic ef-<br>fects   | 5 mg/kg<br>bw/day    |

## Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name     | Environmental Compartment  | Value          |
|--------------------|----------------------------|----------------|
| Ethanol            | Fresh water                | 0,96 mg/l      |
|                    | Marine water               | 0,79 mg/l      |
|                    | Intermittent use/release   | 2,75 mg/l      |
|                    | Sewage treatment plant     | 580 mg/l       |
|                    | Fresh water sediment       | 3,6 mg/kg      |
|                    | Marine sediment            | 2,9 mg/kg      |
|                    | Soil                       | 0,63 mg/kg     |
|                    | Oral (Secondary Poisoning) | 720 mg/kg food |
| Ethyl Acetoacetate | Fresh water                | 0,1 mg/l       |



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|                      | Marine water             | 0,01 mg/l    |
|----------------------|--------------------------|--------------|
|                      | Intermittent use/release | 1 mg/l       |
|                      | Sewage treatment plant   | 300 mg/l     |
|                      | Fresh water sediment     | 0,1465 mg/kg |
|                      | Marine sediment          | 0,0147 mg/kg |
|                      | Soil                     | 0,0501 mg/kg |
| 1-Methoxy-2-propanol | Fresh water              | 10 mg/l      |
| · · · ·              | Marine water             | 1 mg/l       |
|                      | Intermittent use/release | 100 mg/l     |
|                      | Sewage treatment plant   | 100 mg/l     |
|                      | Fresh water sediment     | 52,3 mg/kg   |
|                      | Marine sediment          | 5,2 mg/kg    |
|                      | Soil                     | 5,49 mg/kg   |
| Acetylacetone        | Fresh water              | 0,026 mg/l   |
|                      | Marine water             | 0,0026 mg/l  |
|                      | Intermittent use/release | 0,26 mg/l    |
|                      | Sewage treatment plant   | 1,32 mg/l    |
|                      | Fresh water sediment     | 0,155 mg/kg  |
|                      | Marine sediment          | 0,0155 mg/kg |
|                      | Soil                     | 0,0158 mg/kg |
| Methyl salicylate    | Fresh water              | 20 µg/l      |
|                      | Marine water             | 2 µg/l       |
|                      | Intermittent use/release | 200 μg/l     |
|                      | Sewage treatment plant   | 140 mg/l     |
|                      | Fresh water sediment     | 0,33 mg/kg   |
|                      | Marine sediment          | 0,033 mg/kg  |
|                      | Soil                     | 0,35 mg/kg   |

#### 8.2 Exposure controls

#### **Engineering measures**

Minimize workplace exposure concentrations. Use only in an area equipped with explosion proof exhaust ventilation. Use with local exhaust ventilation.

:

## Personal protective equipment

Eye protection

Wear the following personal protective equipment: Safety glasses

## Hand protection

| Material<br>Break through time<br>Glove thickness<br>Directive | : Nitrile rubber<br>: > 480 min<br>: > 0,4 mm<br>: DIN EN 374 |   |
|--|---|---|
| Material<br>Break through time<br>Glove thickness<br>Directive | : Neoprene<br>: > 480 min<br>: > 0,4 mm<br>: DIN EN 374       | Ļ |



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| Remarks                  |                           |   | Choose gloves to protect hands against chemicals depending<br>on the concentration and quantity of the hazardous sub-<br>stance and specific to place of work. For special applications,<br>we recommend clarifying the resistance to chemicals of the<br>aforementioned protective gloves with the glove manufactur-<br>er. Wash hands before breaks and at the end of workday. |  |  |
| Skin and body protection |                           |   |  | g personal protective equipment:<br>ntistatic protective clothing. |  |
| Respiratory protection   |                           |   | Use respiratory protection unless adequate local exhaust ven-<br>tilation is provided or exposure assessment demonstrates tha<br>exposures are within recommended exposure guidelines.   |  |  |
| Filter type              |                           | : | Self-contained bre   | eathing apparatus  |  |

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

| Appearance  | : | aerosol                      |
|---|---|------------------------------|
| Propellant  | : | Butane, Propane              |
| Colour  | : | colourless, light yellow     |
| Odour   | : | like fruit                   |
| Odour Threshold                                     | : | No data available            |
| рН  | : | 5,0 - 7,0 (20 °C)            |
| Melting point/freezing point                        | : | No data available            |
| Initial boiling point and boiling range             | : | Not applicable               |
| Flash point   | : | Not applicable               |
| Evaporation rate                                    | : | Not applicable               |
| Flammability (solid, gas)                           | : | Extremely flammable aerosol. |
| Upper explosion limit / Upper<br>flammability limit | : | No data available            |
| Lower explosion limit / Lower<br>flammability limit | : | No data available            |
| Vapour pressure                                     | : | Not applicable               |



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|                |                           |                             |   |  |

|     | Relative vapour density                    | : | Not applicable   |
|-----|--|---|--|
|     | Density                                    | : | 0,840 g/cm3 (20 °C)                                      |
|     | Solubility(ies)<br>Water solubility        | : | No data available  |
|     | Partition coefficient: n-<br>octanol/water | : | Not applicable   |
|     | Auto-ignition temperature                  | : | 340 °C   |
|     | Decomposition temperature                  | : | No data available  |
|     | Viscosity<br>Viscosity, kinematic          | : | Not applicable   |
|     | Explosive properties                       | : | Not explosive  |
|     | Oxidizing properties                       | : | The substance or mixture is not classified as oxidizing. |
| 9.2 | Other information<br>Particle size         |   | Not applicable   |
|     |  | • | i i i i i i i i i i i i i i i i i i i                    |

## **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 | : Extremely flammable aerosol.                                   |
|---------------------|--|
|                     | Vapours may form explosive mixture with air.                     |
|                     | If the temperature rises there is danger of the vessels bursting |
|                     | due to the high vapor pressure.                                  |
|                     | Can react with strong oxidizing agents.                          |
|                     |  |
|                     |  |

## 10.4 Conditions to avoid

| eat, flames and sparks. |
|-------------------------|
| Ξ                       |

## 10.5 Incompatible materials

| Materials to avoid | : Oxidizing age | ents |
|--------------------|-----------------|------|
|--------------------|-----------------|------|



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#### **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<br>Skin contact |
|--|---|----------------------------|
|  |   | Ingestion<br>Eye contact   |

#### Acute toxicity

Not classified based on available information.

#### Product:

| Acute oral toxicity       | : Acute toxicity estimate: > 2.000 mg/kg<br>Method: Calculation method  |
|---------------------------|---|
| Acute inhalation toxicity | : Acute toxicity estimate: > 20 mg/l<br>Exposure time: 4 h<br>Test atmosphere: vapour<br>Method: Calculation method |
| Acute dermal toxicity     | : Acute toxicity estimate: > 2.000 mg/kg<br>Method: Calculation method  |
| Components:               |   |
| Ethanol:                  |   |
| Acute oral toxicity       | : LD50 (Rat): > 5.000 mg/kg<br>Method: OECD Test Guideline 401  |
| Acute inhalation toxicity | : LC50 (Rat): 124,7 mg/l<br>Exposure time: 4 h<br>Test atmosphere: vapour   |
| Acetylacetone:            |   |
| Acute oral toxicity       | : LD50 (Rat): 570 mg/kg   |
| Acute inhalation toxicity | : LC50 (Rat): 5,1 mg/l<br>Exposure time: 4 h<br>Test atmosphere: vapour   |
| Acute dermal toxicity     | : LD50 (Rabbit): 790 mg/kg  |
| Methyl salicylate:        |   |



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|             |          |                                  |   |   |   |
|             | Acute of | oral toxicity                    | : | LD50 (Rat): 887 r   | ng/kg   |
|             | -        | oxy-2-propanol:<br>pral toxicity | : | LD50 (Rat): 4.016   | S mg/kg   |
|             | Acute i  | nhalation toxicity               | : | LC50 (Rat): > 28,<br>Exposure time: 4<br>Test atmosphere:<br>Assessment: The<br>tion toxicity | h   |
|             | Acute of | dermal toxicity                  | : | LD50 (Rat): > 2.0<br>Assessment: The<br>toxicity  | 00 mg/kg<br>substance or mixture has no acute dermal              |

## Skin corrosion/irritation

Not classified based on available information.

## Components:

## Ethanol:

Species: Rabbit Method: OECD Test Guideline 404 Result: No skin irritation

## Acetylacetone:

Species: Rabbit Result: No skin irritation

## Methyl salicylate:

Species: Rabbit Method: OECD Test Guideline 404 Result: No skin irritation

## 1-Methoxy-2-propanol:

Species: Rabbit Result: No skin irritation

#### Serious eye damage/eye irritation

Not classified based on available information.

#### **Components:**

## Ethanol:

Species: Rabbit Method: OECD Test Guideline 405 Result: Irritation to eyes, reversing within 21 days



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## Acetylacetone:

Species: Rabbit Result: No eye irritation

#### Methyl salicylate:

Species: Rabbit Result: No eye irritation

#### 1-Methoxy-2-propanol:

Species: Rabbit 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:**

#### Ethanol:

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

#### Acetylacetone:

Test Type: Local lymph node assay (LLNA) Exposure routes: Skin contact Species: Mouse Method: OECD Test Guideline 429 Result: Does not cause skin sensitisation.

### Methyl salicylate:

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

#### 1-Methoxy-2-propanol:

Test Type: Maximisation Test Exposure routes: Skin contact Species: Guinea pig Result: negative



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## Germ cell mutagenicity

Not classified based on available information.

| Components:             |   |
|-------------------------|---|
| Ethanol:                |   |
| Genotoxicity in vitro : | Test Type: In vitro mammalian cell gene mutation test<br>Result: negative   |
| :                       | Test Type: Bacterial reverse mutation assay (AMES)<br>Result: negative  |
| Genotoxicity in vivo :  | Test Type: Rodent dominant lethal test (germ cell) (in vivo)<br>Species: Mouse<br>Application Route: Ingestion<br>Result: equivocal   |
| Acetylacetone:          |   |
| Genotoxicity in vitro : | Test Type: Bacterial reverse mutation assay (AMES)<br>Result: negative  |
| Genotoxicity in vivo :  | Test Type: Mammalian erythrocyte micronucleus test (in vivo<br>cytogenetic assay)<br>Species: Rat<br>Application Route: inhalation (dust/mist/fume)<br>Method: OPPTS 870.5395<br>Result: negative |
| Methyl salicylate:      |   |
|                         | Test Type: Chromosome aberration test in vitro<br>Result: negative  |
| :                       | Test Type: Bacterial reverse mutation assay (AMES)<br>Result: negative  |
| 1-Methoxy-2-propanol:   |   |
| Genotoxicity in vitro : | Test Type: Bacterial reverse mutation assay (AMES)<br>Result: negative  |
| Genotoxicity in vivo :  | Test Type: Mammalian erythrocyte micronucleus test (in vivo<br>cytogenetic assay)<br>Species: Mouse<br>Application Route: Intraperitoneal injection<br>Result: negative                           |

## Carcinogenicity

Not classified based on available information.



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#### **Components:**

#### Methyl salicylate:

Species: Rat Application Route: Ingestion Exposure time: 2 Years Result: negative

#### 1-Methoxy-2-propanol:

Species: Rat Application Route: inhalation (vapour) Exposure time: 2 Years Method: OECD Test Guideline 453 Result: negative

## **Reproductive toxicity**

Not classified based on available information.

#### Components:

| Ethanol:                          |  |
|-----------------------------------|--|
| Effects on fertility :            | Test Type: Two-generation reproduction toxicity study<br>Species: Mouse<br>Application Route: Ingestion<br>Result: negative  |
| Acetylacetone:                    |  |
| Effects on foetal develop- : ment | Test Type: Embryo-foetal development<br>Species: Rat<br>Application Route: inhalation (vapour)<br>Result: negative   |
| Methyl salicylate:                |  |
| Effects on fertility :            | Test Type: Three-generation reproduction toxicity study<br>Species: Rat<br>Application Route: Ingestion<br>Result: negative  |
| 1-Methoxy-2-propanol:             |  |
| 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 develop- : ment | Test Type: Embryo-foetal development<br>Species: Rat<br>Application Route: inhalation (vapour)   |



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Result: negative

## STOT - single exposure

Not classified based on available information.

## **Components:**

## 1-Methoxy-2-propanol:

Assessment: May cause drowsiness or dizziness.

#### STOT - repeated exposure

Not classified based on available information.

#### **Repeated dose toxicity**

#### **Components:**

#### Ethanol:

Species: Rat NOAEL: 1.280 mg/kg LOAEL: 3.156 mg/kg Application Route: Ingestion Exposure time: 90 Days

#### Acetylacetone:

Species: Rat NOAEL: 100 ppm LOAEL: 300 ppm Application Route: inhalation (vapour) Exposure time: 14 Weeks

## Methyl salicylate:

Species: Rat NOAEL: 50 mg/kg LOAEL: 250 mg/kg Application Route: Ingestion Exposure time: 2 yr

## 1-Methoxy-2-propanol:

Species: Rat NOAEL: 919 mg/kg Application Route: Ingestion Exposure time: 35 Days

Species: Rat NOAEL: 3,7 mg/l Application Route: inhalation (vapour) Exposure time: 13 Weeks



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Method: OECD Test Guideline 413

Species: Rabbit NOAEL: > 1.000 mg/kg Application Route: Skin contact Exposure time: 21 Days Method: OECD Test Guideline 410

## Aspiration toxicity

Not classified based on available information.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

| Components:  |   |
|--|---|
| Ethanol:   |   |
| Toxicity to fish :   | LC50 (Pimephales promelas (fathead minnow)): > 1.000 mg/l<br>Exposure time: 96 h  |
| Toxicity to daphnia and other : aquatic invertebrates                            | EC50 (Ceriodaphnia (water flea)): > 1.000 mg/l<br>Exposure time: 48 h   |
| Toxicity to algae :  | ErC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l<br>Exposure time: 72 h   |
|  | EC10 (Chlorella vulgaris (Fresh water algae)): 11,5 mg/l<br>Exposure time: 72 h   |
| Toxicity to microorganisms :   | EC50 (Pseudomonas putida): 6.500 mg/l<br>Exposure time: 16 h  |
| Toxicity to daphnia and other :<br>aquatic invertebrates (Chron-<br>ic toxicity) | NOEC: 9,6 mg/l<br>Exposure time: 9 d<br>Species: Daphnia magna (Water flea)   |
| Acetylacetone:   |   |
| Toxicity to fish :   | LC50 (Pimephales promelas (fathead minnow)): 104 mg/l<br>Exposure time: 96 h  |
| Toxicity to daphnia and other : aquatic invertebrates                            | EC50 (Daphnia magna (Water flea)): 25,9 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202                        |
| Toxicity to algae :  | EC50 (Pseudokirchneriella subcapitata (green algae)): 83,22<br>mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201 |



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|                  |   |   |  |  |
|                  |   |   | NOEC (Pseudokin<br>mg/l<br>Exposure time: 72<br>Method: OECD T   |  |
| Toxici           | ty to microorganisms  | : | EC50 : 107,6 mg/<br>Exposure time: 3<br>Method: OECD Te  | h  |
| Toxici<br>icity) | Toxicity to fish (Chronic tox-<br>icity)                    |   | NOEC: 10 mg/l<br>Exposure time: 34 d<br>Species: Pimephales promelas (fathead minnow)<br>Method: OECD Test Guideline 210 |  |
|                  | ty to daphnia and other<br>c invertebrates (Chron-<br>city) | : | NOEC: 18 mg/l<br>Exposure time: 2 <sup>4</sup><br>Species: Daphnia<br>Method: OECD Te                                    | magna (Water flea)   |
| Methy            | /l salicylate:  |   |  |  |
| -                | ty to fish  | : | LC50 (Danio rerio<br>Exposure time: 96<br>Method: OECD Te  |  |
|                  | ty to daphnia and other<br>c invertebrates                  | : | Exposure time: 48  | nagna (Water flea)): > 100 mg/l<br>3 h<br>on data from similar materials |
| Toxici           | ty to algae   | : | ErC50 (Desmode<br>Exposure time: 72<br>Method: OECD T  |  |
|                  |   |   | NOEC (Desmode<br>Exposure time: 72<br>Method: OECD T   |  |
| Toxici           | ty to microorganisms  | : | EC10 (Pseudomo<br>Exposure time: 16  | onas putida): 140 mg/l<br>S h  |
| 1-Met            | hoxy-2-propanol:  |   |  |  |
|                  | ty to fish  | : | LC50 (Pimephale<br>Exposure time: 96   | s promelas (fathead minnow)): 20.800 mg/l<br>S h                         |
|                  | ty to daphnia and other<br>c invertebrates                  | : | EC50 (Daphnia m<br>Exposure time: 48   | agna (Water flea)): 23.300 mg/l<br>3 h                                   |
| Toxici           | ty to algae   | : | EbC50 (Selenasti<br>mg/l<br>Exposure time: 96  | rum capricornutum (green algae)): > 1.000<br>6 h                         |



| Toxicity to microorganisms : IC50 : > 1.000 mg/l<br>Exposure time: 3 h<br>Method: OECD Test Guideline 209<br><b>12.2 Persistence and degradability</b><br><u>Components:</u><br>Ethanol:<br>Biodegradability : Result: Readily biodegradable.<br>Biodegradability : 84 % | ie: 25.10.2016<br>ie: 11.06.2014 |
|--|----------------------------------|
| Exposure time: 3 h<br>Method: OECD Test Guideline 209<br><b>12.2 Persistence and degradability</b><br><u>Components:</u><br>Ethanol:<br>Biodegradability : Result: Readily biodegradable.  |                                  |
| Components:   Ethanol:   Biodegradability : Result: Readily biodegradable.   | )                                |
| Ethanol:<br>Biodegradability : Result: Readily biodegradable.  |                                  |
| Biodegradability : Result: Readily biodegradable.  |                                  |
|  |                                  |
| Exposure time: 20 d  |                                  |
| Acetylacetone:   |                                  |
| Biodegradability : Result: Readily biodegradable.  |                                  |
| Biodegradation: 83 - 100 %<br>Exposure time: 28 d  |                                  |
| Method: OECD Test Guideline 301  | С                                |
| Methyl salicylate:   |                                  |
| Biodegradability : Result: Readily biodegradable.  |                                  |
| Biodegradation: 98,4 %<br>Exposure time: 28 d  |                                  |
| 1-Methoxy-2-propanol:  |                                  |
| Biodegradability : Result: Readily biodegradable.  |                                  |
| Biodegradation: 96 %<br>Exposure time: 28 d  |                                  |
| Method: OECD Test Guideline 301  | E                                |
| 12.3 Bioaccumulative potential   |                                  |
| Components:  |                                  |
| Ethanol:   |                                  |
| Partition coefficient: n- : log Pow: -0,35<br>octanol/water  |                                  |
|  |                                  |
| Acetylacetone:   |                                  |
| Partition coefficient: n- : log Pow: 0,68<br>octanol/water   |                                  |
| Methyl salicylate:   |                                  |
| Partition coefficient: n- : log Pow: 2,55<br>octanol/water   |                                  |
| 19 / 25  |                                  |



## 1-Methoxy-2-propanol:

Partition coefficient: n- : log Pow: < 1 octanol/water

## 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<br>are not product specific, but application specific.<br>Waste codes should be assigned by the user, preferably in<br>discussion with the waste disposal authorities.  |
|--------------------------|--|
| Contaminated packaging : | Empty containers should be taken to an approved waste han-<br>dling 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 ex-<br>pose such containers to heat, flame, sparks, or other sources<br>of ignition. They may explode and cause injury and/or death.<br>If not otherwise specified: Dispose of as unused product.<br>Please ensure aerosol cans are sprayed completely empty<br>(including propellant) |
| Waste Code :             | The following Waste Codes are only suggestions:  |
|                          | used product<br>160504, gases in pressure containers (including halons) con-<br>taining dangerous substances   |
|                          | unused product<br>160504, gases in pressure containers (including halons) con-<br>taining dangerous substances   |
|                          | uncleaned packagings<br>150110, packaging containing residues of or contaminated by<br>dangerous substances  |



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## **SECTION 14: Transport information**

| 14.1 UN number   |   |  |
|--|---|--|
| ADN  | : | UN 1950  |
| ADR  | : | UN 1950  |
| RID  | : | UN 1950  |
| IMDG   | : | UN 1950  |
| ΙΑΤΑ   | : | UN 1950  |
| 14.2 UN proper shipping name   |   |  |
| ADN  | : | AEROSOLS   |
| ADR  | : | AEROSOLS   |
| RID  | : | AEROSOLS   |
| IMDG   | : | AEROSOLS   |
| ΙΑΤΑ   | : | Aerosols, flammable  |
| 14.3 Transport hazard class(es)  |   |  |
| ADN  | : | 2  |
| ADR  | : | 2  |
| RID  | : | 2  |
| IMDG   | : | 2.1  |
| ΙΑΤΑ   | : | 2.1  |
| 14.4 Packing group   |   |  |
| <b>ADN</b><br>Packing group<br>Classification Code<br>Labels   | : | Not assigned by regulation<br>5F<br>2.1  |
| <b>ADR</b><br>Packing group<br>Classification Code<br>Labels<br>Tunnel restriction code  | : | Not assigned by regulation<br>5F<br>2.1<br>(D)                                     |
| <b>RID</b><br>Packing group<br>Classification Code<br>Hazard Identification Number<br>Labels<br><b>IMDG</b><br>Packing group<br>Labels |   | Not assigned by regulation<br>5F<br>23<br>2.1<br>Not assigned by regulation<br>2.1 |



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|--|--|---|---|
|  |  |   |   |
| Ems  | S Code   | : F-D, S-U                                |   |
| Pac  | <b>A (Cargo)</b><br>king instruction (cargo  | : 203                                     |   |
|  | king instruction (LQ)<br>king group  | : Y203<br>: Not assigned<br>: Flammable G |   |
| Pac  | <b>A (Passenger)</b><br>king instruction (passen-<br>aircraft)   | : 203                                     |   |
| Pac  | king instruction (LQ)<br>king group  | : Y203<br>: Not assigned<br>: Flammable G |   |
| 14.5 Env   | rironmental hazards  |   |   |
| <b>ADI</b><br>Env  | <b>I</b><br>ironmentally hazardous   | : no                                      |   |
| <b>ADF</b><br>Env  | <b>R</b><br>ironmentally hazardous   | : no                                      |   |
| <b>RID</b><br>Env  | ironmentally hazardous   | : no                                      |   |
| <b>IMD</b><br>Mar  | <b>G</b><br>ine pollutant  | : no                                      |   |
| -  | cial precautions for use<br>applicable   | er  |   |
|  | n <b>sport in bulk accordin</b> g<br>narks   | -   | e for product as supplied.  |
|  | N 15: Regulatory info  |   |   |
|  |  |   | /legislation specific for the substance or mix-                   |
| ture   |  | -   |   |
| the  | ACH - Restrictions on the<br>market and use of certain<br>parations and articles (An                       | dangerous substai                         |   |
|  | REACH - Candidate List of Substances of Very High : Not applicable Concern for Authorisation (Article 59). |   |   |
| Regulation (EC) No 1005/2009 on substances that de- : Not applicable plete the ozone layer |  | at de- : Not applicable                   |   |
| -  | Regulation (EC) No 850/2004 on persistent organic pol- : Not applicable lutants                            |   |   |



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ment and the Council concerning the export and import of dangerous chemicals

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

| P3a                        | FLAMMABLE AEROSOLS   | Quantity 1<br>150 t                 | Quantity 2<br>500 t |
|----------------------------|--|-------------------------------------|---------------------|
| 18                         | Liquefied extremely flam-<br>mable gases (including<br>LPG) and natural gas  | 50 t                                | 200 t               |
| Volatile organic compounds | : Directive 2010/75/EU of 24<br>emissions (integrated pollut<br>Volatile organic compounds<br>Remarks: VOC content exc | ion prevention and (VOC) content: 7 | d control)          |

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Young people under the age of 18 are not allowed to use or be exposed to the product professionally. Young people above the age of 15 are, however, except from this rule if the product is a necessary part of their education.

## 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

## **SECTION 16: Other information**

#### Full text of H-Statements

| H225<br>H226<br>H302<br>H311<br>H319<br>H331                    |    | Highly flammable liquid and vapour.<br>Flammable liquid and vapour.<br>Harmful if swallowed.<br>Toxic in contact with skin.<br>Causes serious eye irritation.<br>Toxic if inhaled.   |
|---|----|--|
| H336  | :  | May cause drowsiness or dizziness.   |
| Full text of other abbreviatio                                  |    |  |
| Acute Tox.<br>Eye Irrit.<br>Flam. Liq.<br>STOT SE<br>2000/39/EC |    | Acute toxicity<br>Eye irritation<br>Flammable liquids<br>Specific target organ toxicity - single exposure<br>Europe. Commission Directive 2000/39/EC establishing a first<br>list of indicative occupational exposure limit values |
| FOR-2011-12-06-1358<br>2000/39/EC / TWA<br>2000/39/EC / STEL    | :: | Norway. Occupational Exposure limits<br>Limit Value - eight hours<br>Short term exposure limit   |



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#### FOR-2011-12-06-1358 / TWA

: Long term exposure limit

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; AICS - Australian Inventory of Chemical Substances; 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; TCSI - Taiwan Chemical Substance 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:

Aerosol 1

Classification procedure:

H222, H229 Based on product data or assessment

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



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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.

NO / EN