

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## TESSAROL DIRECT 3in1 RAL----

Version 5.0      Revision Date: 21.01.2026      SDS Number: MAT0GA00\_104IE/EN      Date of last issue: 07.05.2025  
Date of first issue: 20.07.2023

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

#### 1.1 Product identifier

Trade name : TESSAROL DIRECT 3in1 RAL----

Product code : Please see section 16 for detailed data

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

Use of the Sub-stance/Mixture : SU19: Building and construction work  
PROC10, PROC11: Roller application or brushing, Non industrial spraying  
PC9a: Coatings and paints, thinners, paint removers

Recommended restrictions on use : Professional and consumer use of coatings

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

Company : KANSAI HELIOS Slovenija d.o.o.  
Količevo 65  
1230 Domžale  
Slovenia

Telephone Company : 386 (1) 722 4383

Telefax Company : 386 (1) 722 4310

Responsible/issuing person : 386 (1) 722 4383  
productsafety@kansai-helios.si

#### 1.4 Emergency telephone number

01 809 2166 National Poisons Information Centre 01 809 2166

01 809 2566 Healthcare Professionals 01 809 2566

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Flammable liquids, Category 3      H226: Flammable liquid and vapour.  
Specific target organ toxicity - single exposure, Category 3, Central nervous      H336: May cause drowsiness or dizziness.

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system

Long-term (chronic) aquatic hazard, Category 3

H412: Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

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

Hazard pictograms :



Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.  
H336 May cause drowsiness or dizziness.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.

#### Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P271 Use only outdoors or in a well-ventilated area.

#### Response:

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

#### Storage:

P405 Store locked up.

#### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

#### Hazardous components which must be listed on the label:

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics  
1-methoxy-2-propanol  
2-methoxy-1-methylethyl acetate

#### Additional Labelling

EUH208 Contains mixture of sterically composed sebacates. May produce an allergic reaction.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Components

| Chemical name  | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number     | Classification   | Concentration<br>(% w/w) |
|--|---|--|--------------------------|
| hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics   | -<br>919-857-5<br>01-2119463258-33                        | Flam. Liq. 3; H226<br>STOT SE 3; H336<br>(Central nervous system)<br>Asp. Tox. 1; H304         | >= 20 - < 30             |
| hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics   | -<br>918-481-9<br>01-2119457273-39                        | Asp. Tox. 1; H304<br>EUH066  | >= 1 - < 10              |
| 1-methoxy-2-propanol   | 107-98-2<br>203-539-1<br>603-064-00-3<br>01-2119457435-35 | Flam. Liq. 3; H226<br>STOT SE 3; H336<br>(Central nervous system)                              | >= 1 - < 10              |
| 2-methoxy-1-methylethyl acetate  | 108-65-6<br>203-603-9<br>607-195-00-7<br>01-2119475791-29 | Flam. Liq. 3; H226<br>STOT SE 3; H336<br>(Central nervous system)                              | >= 1 - < 10              |
| Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 1065336-91-5<br>915-687-0<br>01-2119491304-40             | Skin Sens. 1; H317<br>Repr. 2; H361f<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410 | >= 0.25 - < 1            |
| strontium neodecanoate   | 106705-37-7   | Acute Tox. 4; H302<br>Eye Dam. 1; H318<br>Repr. 1B; H360D                                      | >= 0.1 - < 0.3           |
| Substances with a workplace exposure limit :   |   |  |                          |
| Kaolin   | 1332-58-7<br>310-194-1                                    |  | >= 1 - < 10              |

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|      |   |  |                 |
|------|---|--|-----------------|
| Talc | 14807-96-6<br>238-877-9<br><br>01-2120140278-58 |  | $\geq 1 - < 10$ |
|------|---|--|-----------------|

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : Consult a physician after significant exposure.  
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

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

- Risks : May cause drowsiness or dizziness.  
  
May cause drowsiness or dizziness.

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

- Treatment : Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing : High volume water jet

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media

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

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.

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## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### 6.4 Reference to other sections

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

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

- Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition.
- Hygiene measures : Wash hands before breaks and at the end of workday.

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

- Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage stability : No decomposition if stored and applied as directed.

#### 7.3 Specific end use(s)

- Specific use(s) : For further information, refer to the product technical data sheet.
- Consult the technical guidelines for the use of this substance/mixture.

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

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| Components  | CAS-No.    | Value type (Form of exposure)        | Control parameters               | Basis      |
|---|------------|--------------------------------------|----------------------------------|------------|
| titanium dioxide  | 13463-67-7 | OELV - 8 hrs (TWA) (Respirable dust) | 4 mg/m <sup>3</sup>              | IE OEL     |
|   |            | OELV - 8 hrs (TWA) (inhalable dust)  | 10 mg/m <sup>3</sup>             | IE OEL     |
| Kaolin  | 1332-58-7  | OELV - 8 hrs (TWA) (Respirable dust) | 2 mg/m <sup>3</sup>              | IE OEL     |
|   |            | TWA (Respirable dust)                | 0.1 mg/m <sup>3</sup>            | 2004/37/EC |
| Further information: Carcinogens or mutagens  |            |                                      |                                  |            |
| barium sulfate  | 7727-43-7  | OELV - 8 hrs (TWA) (Respirable dust) | 5 mg/m <sup>3</sup>              | IE OEL     |
| 1-methoxy-2-propanol  | 107-98-2   | TWA                                  | 100 ppm<br>375 mg/m <sup>3</sup> | 2000/39/EC |
| Further information: Identifies the possibility of significant uptake through the skin, Indicative  |            |                                      |                                  |            |
|   |            | STEL                                 | 150 ppm<br>568 mg/m <sup>3</sup> | 2000/39/EC |
| Further information: Identifies the possibility of significant uptake through the skin, Indicative  |            |                                      |                                  |            |
|   |            | OELV - 8 hrs (TWA)                   | 100 ppm<br>375 mg/m <sup>3</sup> | IE OEL     |
|   |            | OELV - 15 min (STEL)                 | 150 ppm<br>568 mg/m <sup>3</sup> | IE OEL     |
| Talc  | 14807-96-6 | OELV - 8 hrs (TWA) (Respirable dust) | 0.8 mg/m <sup>3</sup>            | IE OEL     |
|   |            | OELV - 8 hrs (TWA) (inhalable dust)  | 10 mg/m <sup>3</sup>             | IE OEL     |
|   |            | TWA (Respirable dust)                | 0.1 mg/m <sup>3</sup>            | 2004/37/EC |
| Further information: Carcinogens or mutagens  |            |                                      |                                  |            |
| 2-methoxy-1-methylethyl acetate   | 108-65-6   | STEL                                 | 100 ppm<br>550 mg/m <sup>3</sup> | 2000/39/EC |
| Further information: Identifies the possibility of significant uptake through the skin, Indicative  |            |                                      |                                  |            |
|   |            | TWA                                  | 50 ppm<br>275 mg/m <sup>3</sup>  | 2000/39/EC |
| Further information: Identifies the possibility of significant uptake through the skin, Indicative  |            |                                      |                                  |            |
|   |            | OELV - 8 hrs (TWA)                   | 50 ppm<br>275 mg/m <sup>3</sup>  | IE OEL     |
| Further information: Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body |            |                                      |                                  |            |

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|   |                      |                                  |        |
|---|----------------------|----------------------------------|--------|
|   | OELV - 15 min (STEL) | 100 ppm<br>550 mg/m <sup>3</sup> | IE OEL |
| Further information: Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body |                      |                                  |        |

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

| Substance name   | End Use                           | Exposure routes | Potential health effects   | Value                      |
|--|-----------------------------------|-----------------|----------------------------|----------------------------|
| hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics | Workers                           | Inhalation      | Long-term systemic effects | 1500 mg/m <sup>3</sup>     |
|  | Consumers                         | Inhalation      | Long-term systemic effects | 900 mg/m <sup>3</sup>      |
|  | Workers                           | Dermal          | Long-term systemic effects | 300 mg/kg bw/day           |
|  | Consumers                         | Dermal          | Long-term systemic effects | 300 mg/kg bw/day           |
| titanium dioxide   | Consumers                         | Oral            | Long-term systemic effects | 300 mg/kg bw/day           |
|  | Workers                           | Inhalation      | Long-term local effects    | 10 mg/m <sup>3</sup>       |
|  | Consumers                         | Oral            | Long-term systemic effects | 700 mg/kg bw/day           |
|  | Soybean oil, epoxidized, acrylate | Workers         | Inhalation                 | Long-term systemic effects |
| Consumers  |                                   | Inhalation      | Long-term systemic effects | 2.9 mg/m <sup>3</sup>      |
| Workers  |                                   | Dermal          | Long-term systemic effects | 6.67 mg/m <sup>3</sup>     |
| Consumers  |                                   | Dermal          | Long-term systemic effects | 3.33 mg/m <sup>3</sup>     |
| barium sulfate   | Consumers                         | Oral            | Long-term systemic effects | 1.67 mg/kg bw/day          |
|  | Consumers                         | Inhalation      | Long-term systemic effects | 10 mg/m <sup>3</sup>       |
|  | Workers                           | Inhalation      | Long-term systemic effects | 10 mg/m <sup>3</sup>       |
|  | Consumers                         | Oral            | Long-term systemic effects | 13000 mg/kg bw/day         |
| 1-methoxy-2-propanol   | Workers                           | Inhalation      | Long-term systemic effects | 369 mg/m <sup>3</sup>      |
|  | Workers                           | Inhalation      | Acute systemic effects     | 553.5 mg/m <sup>3</sup>    |
|  | Workers                           | Inhalation      | Acute local effects        | 553.5 mg/m <sup>3</sup>    |
|  | Workers                           | Inhalation      | Long-term systemic effects | 43.9 mg/m <sup>3</sup>     |
|  | Workers                           | Dermal          | Long-term systemic effects | 183 mg/kg bw/day           |
|  | Consumers                         | Dermal          | Long-term systemic effects | 78 mg/kg bw/day            |

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|                                 | Consumers | Oral       | Long-term systemic effects | 33 mg/kg bw/day         |
|---------------------------------|-----------|------------|----------------------------|-------------------------|
| Talc                            | Workers   | Inhalation | Acute systemic effects     | 2.16 mg/m <sup>3</sup>  |
|                                 | Workers   | Inhalation | Acute local effects        | 3.6 mg/m <sup>3</sup>   |
|                                 | Consumers | Inhalation | Acute systemic effects     | 1.08 mg/m <sup>3</sup>  |
|                                 | Consumers | Inhalation | Acute local effects        | 1.8 mg/m <sup>3</sup>   |
|                                 | Consumers | Dermal     | Long-term local effects    | 2.27 mg/cm <sup>2</sup> |
|                                 | Workers   | Dermal     | Long-term local effects    | 4.54 mg/cm <sup>2</sup> |
|                                 | Consumers | Oral       | Long-term systemic effects | 160 mg/kg bw/day        |
|                                 | Consumers | Oral       | Acute systemic effects     | 160 mg/kg bw/day        |
|                                 | Workers   | Dermal     | Long-term systemic effects | 43.2 mg/kg bw/day       |
|                                 | Consumers | Dermal     | Long-term systemic effects | 21.6 mg/kg bw/day       |
| 2-methoxy-1-methylethyl acetate | Workers   | Inhalation | Long-term systemic effects | 275 mg/m <sup>3</sup>   |
|                                 | Workers   | Inhalation | Acute local effects        | 550 mg/m <sup>3</sup>   |
|                                 | Consumers | Inhalation | Long-term systemic effects | 33 mg/m <sup>3</sup>    |
|                                 | Consumers | Inhalation | Long-term local effects    | 33 mg/m <sup>3</sup>    |
|                                 | Workers   | Dermal     | Long-term systemic effects | 796 mg/kg bw/day        |
|                                 | Consumers | Dermal     | Long-term systemic effects | 320 mg/kg bw/day        |
|                                 | Consumers | Oral       | Long-term systemic effects | 36 mg/kg bw/day         |
| Strontium neodecanoate          | Workers   | Inhalation | Long-term systemic effects | 3.32 mg/m <sup>3</sup>  |
|                                 | Workers   | Dermal     | Long-term systemic effects | 0.850 mg/kg bw/day      |
|                                 | Consumers | Inhalation | Long-term systemic effects | 0.820 mg/m <sup>3</sup> |
|                                 | Consumers | Dermal     | Long-term systemic effects | 0.420 mg/kg bw/day      |
|                                 | Consumers | Oral       | Long-term systemic effects | 0.420 mg/kg bw/day      |

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

| Substance name   | Environmental Compartment | Value                       |
|------------------|---------------------------|-----------------------------|
| titanium dioxide | Soil                      | 100 mg/kg dry weight (d.w.) |
|                  | Marine water              | 0.0184 mg/l                 |
|                  | Fresh water               | 0.184 mg/l                  |
|                  | Marine sediment           | 100 mg/kg dry               |

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|                                 |                          |                               |
|---------------------------------|--------------------------|-------------------------------|
|                                 |                          | weight (d.w.)                 |
|                                 | Fresh water sediment     | 1000 mg/kg dry weight (d.w.)  |
|                                 | Sewage treatment plant   | 100 mg/l                      |
|                                 | Intermittent use/release | 0.193 mg/l                    |
| barium sulfate                  | Soil                     | 207.7 mg/kg dry weight (d.w.) |
|                                 | Fresh water              | 0.115 mg/l                    |
|                                 | Fresh water sediment     | 600.4 mg/kg dry weight (d.w.) |
|                                 | Sewage treatment plant   | 62.2 mg/l                     |
| 1-methoxy-2-propanol            | Soil                     | 4.59 mg/kg dry weight (d.w.)  |
|                                 | Marine water             | 1 mg/l                        |
|                                 | Fresh water              | 10 mg/l                       |
|                                 | Marine sediment          | 5.2 mg/kg dry weight (d.w.)   |
|                                 | Fresh water sediment     | 52.3 mg/kg dry weight (d.w.)  |
|                                 | Sewage treatment plant   | 100 mg/l                      |
|                                 | Intermittent use/release | 100 mg/l                      |
| Talc                            | Marine water             | 141.26 mg/l                   |
|                                 | Fresh water              | 597.97 mg/l                   |
|                                 | Marine sediment          | 3.13 mg/kg dry weight (d.w.)  |
|                                 | Fresh water sediment     | 31.33 mg/kg dry weight (d.w.) |
|                                 | Intermittent use/release | 597.97 mg/l                   |
| 2-methoxy-1-methylethyl acetate | Soil                     | 0.29 mg/kg dry weight (d.w.)  |
|                                 | Marine water             | 0.0635 mg/l                   |
|                                 | Fresh water              | 0.635 mg/l                    |
|                                 | Marine sediment          | 0.329 mg/kg dry weight (d.w.) |
|                                 | Fresh water sediment     | 3.29 mg/kg dry weight (d.w.)  |
|                                 | Sewage treatment plant   | 100 mg/l                      |
|                                 | Intermittent use/release | 0.00635 mg/l                  |

### 8.2 Exposure controls

#### Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection : Equipment should conform to EN 166  
Eye wash bottle with pure water  
Tightly fitting safety goggles

Hand protection

Gloves : | Nitrile rubber (> 0,1 mm; < 60 min); ISO EN374 |  
| Viton® (> 0,6 mm; < 240 min); ISO EN374 |  
| PE laminate (> 0,1 mm; < 240 min); ISO EN374 |

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|                          |   |   |
|--------------------------|---|---|
| Remarks                  | : | The suitability for a specific workplace should be discussed with the producers of the protective gloves.<br>Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. |
| Skin and body protection | : | Impervious clothing<br>Choose body protection according to the amount and concentration of the dangerous substance at the work place.   |
| Respiratory protection   | : | Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.<br>Equipment should conform to EN 14387   |
| Filter type              | : | Combined particulates and organic vapour type (A-P)   |
| Protective measures      | : | Wash thoroughly after handling.<br>Avoid contact with skin, eyes and clothing.<br>Keep away from food, drink and animal feedingstuffs.  |

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### SECTION 9: Physical and chemical properties

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

|                              |   |   |
|------------------------------|---|---|
| Physical state               | : | liquid  |
| Form                         | : | liquid  |
| Colour                       | : | in accordance with the product description  |
| Odour                        | : | solvent-like  |
| Odour Threshold              | : | No data available   |
| Melting point/freezing point | : | < 0.0 °C (calculation method (principal components, lowest value))  |
| Boiling point/boiling range  | : | 155 - 192 °C (calculation method (principal components, lowest value))  |
| Flammability                 | : | Static-accumulating flammable liquid., Combustible Solids   |
| Flash point                  | : | 40 °C (calculation method (principal components, lowest value))   |
| Decomposition temperature    | : | No decomposition if stored and applied as directed.<br>Hazardous decomposition products formed under fire conditions. |

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|  |   |  |
|--|---|--|
| pH                                     | : | No data available  |
| Viscosity                              | : |  |
| Viscosity, kinematic                   | : | > 20.5 mm <sup>2</sup> /s (40 °C)                                |
| Flow time                              | : | > 40 s at 23 °C  |
|  |   | Cross section: 6 mm  |
|  |   | Method: ISO 2431   |
| Solubility(ies)                        | : |  |
| Water solubility                       | : | insoluble  |
| Solubility in other solvents           | : | Description: miscible with most organic solvents                 |
| Partition coefficient: n-octanol/water | : | No data available  |
| Vapour pressure                        | : | 2 hPa (calculation method (principal components, highest value)) |
| Relative density                       | : | No data available  |
| Density                                | : | 1.10 - 1.20 g/cm <sup>3</sup>                                    |
| Relative vapour density                | : | No data available  |

### 9.2 Other information

|                      |   |                                   |
|----------------------|---|-----------------------------------|
| Explosives           | : | Not applicable                    |
| Oxidizing properties | : | Sustains combustion               |
| VOC                  | : | (Directive 2004/42/EC)<br>500 g/l |

---

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

|                     |   |   |
|---------------------|---|---|
| Hazardous reactions | : | No decomposition if stored and applied as directed. |
|---------------------|---|---|

Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

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Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : Incompatible with strong acids and bases.

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

## SECTION 11: Toxicological information

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

#### Acute toxicity

Not classified based on available information.  
Not classified due to lack of data.

#### Components:

##### **hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics:**

Acute oral toxicity : LD50 Oral: 5000 milligram per kilogram

Acute inhalation toxicity : LC50 (Rat): 5.61 mg/l  
Test atmosphere: vapour

Acute dermal toxicity : LD50: 2000 milligram per kilogram

##### **hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

Acute oral toxicity : LD50 Oral (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 5,000 mg/l  
Test atmosphere: vapour  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 Dermal (Rabbit, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 402

##### **1-methoxy-2-propanol:**

Acute oral toxicity : LD50 Oral (Rabbit): > 2,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

##### **2-methoxy-1-methylethyl acetate:**

Acute oral toxicity : LD50 Oral (Rat): > > 2,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l  
Test atmosphere: vapour

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LC0 (Rat): 2000 ppm  
Exposure time: 3 h

Acute dermal toxicity : LD50 (Rabbit): > > 2,000 mg/kg

### **Strontium neodecanoate:**

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

### **Skin corrosion/irritation**

Not classified based on available information.  
Not classified due to lack of data.

### **Product:**

Remarks : May cause skin irritation and/or dermatitis.

### **Components:**

#### **hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

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

Result : Repeated exposure may cause skin dryness or cracking.

### **Serious eye damage/eye irritation**

Not classified based on available information.  
Not classified due to lack of data.

### **Product:**

Remarks : Vapours may cause irritation to the eyes, respiratory system and the skin.

### **Components:**

#### **hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

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

### **Strontium neodecanoate:**

Result : Irreversible effects on the eye

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified based on available information.

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### **Skin sensitisation**

Not classified due to lack of data.

### **Respiratory sensitisation**

Not classified based on available information.

### **Respiratory sensitisation**

Not classified due to lack of data.

### **Product:**

Remarks : Causes sensitisation.

### **Components:**

#### **hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Not a skin sensitizer.

#### **mixture of sterically composed sebacates:**

Result : May cause sensitisation by skin contact.

### **Germ cell mutagenicity**

Not classified based on available information.  
Not classified due to lack of data.

### **Components:**

#### **hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

Genotoxicity in vitro : Result: negative  
Genotoxicity in vivo : Result: negative

### **Carcinogenicity**

Not classified based on available information.  
Not classified due to lack of data.

### **Components:**

#### **hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

Result : negative

### **Reproductive toxicity**

Not classified based on available information.  
Not classified due to lack of data.

### **Components:**

#### **hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

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Effects on foetal development : Fertility and developmental toxicity tests did not reveal any effect on reproduction.

### **mixture of sterically composed sebacates:**

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

### **Strontium neodecanoate:**

Reproductive toxicity - Assessment : Clear evidence of adverse effects on development, based on animal experiments.

### **STOT - single exposure**

May cause drowsiness or dizziness.  
May cause drowsiness or dizziness.

### **Components:**

#### **hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics:**

Assessment : May cause drowsiness or dizziness.

#### **hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

Remarks : Based on available data, the classification criteria are not met.

#### **1-methoxy-2-propanol:**

Assessment : May cause drowsiness or dizziness.

#### **2-methoxy-1-methylethyl acetate:**

Assessment : May cause drowsiness or dizziness.

### **STOT - repeated exposure**

Not classified based on available information.  
Not classified due to lack of data.

### **Components:**

#### **hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

Remarks : Based on available data, the classification criteria are not met.

### **Aspiration hazard**

Not classified based on available information.  
Not classified due to lack of data.

### **Components:**

#### **hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics:**

May be fatal if swallowed and enters airways.

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### hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:

May be fatal if swallowed and enters airways.

### 11.2 Information on other hazards

#### Endocrine disrupting properties

Not classified due to lack of data.

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### Further information

#### Product:

Remarks : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.  
Concentrations substantially above the TLV value may cause narcotic effects.  
Solvents may degrease the skin.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

#### hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 : > 1,000 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (microalgae)): 1,000 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

EC50 (Pseudokirchneriella subcapitata (microalgae)): > 1,000 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

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### 1-methoxy-2-propanol:

Toxicity to fish : LC50 (Fish): > 1,000 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia (water flea)): > 1,000 mg/l

Toxicity to algae/aquatic plants : LC50 (algae): > 1,000 mg/l

### 2-methoxy-1-methylethyl acetate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 130 mg/l  
Exposure time: 96 h

NOEC : 100 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 : 408 mg/l  
Exposure time: 48 h

Toxicity to fish (Chronic toxicity) : EC10: 47.5 mg/l

### mixture of sterically composed sebacates:

#### Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

## 12.2 Persistence and degradability

### Components:

#### hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 80 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

#### 2-methoxy-1-methylethyl acetate:

Biodegradability : Readily biodegradable.

## 12.3 Bioaccumulative potential

### Components:

#### 1-methoxy-2-propanol:

Partition coefficient: n-octanol/water : log Pow: -0.437

#### 2-methoxy-1-methylethyl acetate:

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Partition coefficient: n-octanol/water : log Pow: 1.2 (20 °C)  
pH: 6.8

### **mixture of sterically composed sebacates:**

Partition coefficient: n-octanol/water : log Pow: 2.37 - 2.77  
pH: 7

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### **Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### **Components:**

#### **hydrocarbons, C10-C13 n-alkanes, isoalkanes, cyclic, <2% aromatics:**

Assessment : Not persistent, bioaccumulative, and toxic (PBT).

### 12.6 Endocrine disrupting properties

#### **Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

#### **Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life with long lasting effects.

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

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Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

Waste Code : 08 00 00, WASTES FROM THE MANUFACTURE,  
FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS  
(PAINTS, VARNISHES AND VITREOUS ENAMELS),  
ADHESIVES, SEALANTS AND PRINTING INKS  
08 01 00, wastes from MFSU and removal of paint and var-  
nish  
08 01 11, waste paint and varnish containing organic solvents  
or other hazardous substances  
15 00 00, WASTE PACKAGING; ABSORBENTS, WIPING  
CLOTHS, FILTER MATERIALS AND PROTECTIVE  
CLOTHING NOT OTHERWISE SPECIFIED  
15 01 00, packaging (including separately collected municipal  
packaging waste)  
15 01 10, packaging containing residues of or contaminated  
by hazardous substances  
HP3, Flammable  
HP13, Sensitising

---

### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADN : UN 1263  
ADR : UN 1263  
RID : UN 1263  
IMDG : UN 1263  
IATA : UN 1263

#### 14.2 UN proper shipping name

ADN : PAINT  
ADR : PAINT  
RID : PAINT  
IMDG : PAINT  
IATA : Paint

#### 14.3 Transport hazard class(es)

|     | Class | Subsidiary risks |
|-----|-------|------------------|
| ADN | : 3   |                  |

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**ADR** : 3  
**RID** : 3  
**IMDG** : 3  
**IATA** : 3

### 14.4 Packing group

**ADN**  
Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3

**ADR**  
Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3  
Tunnel restriction code : (D/E)

**RID**  
Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3

**IMDG**  
Packing group : III  
Labels : 3  
EmS Code : F-E, S-E

**IATA (Cargo)**  
Packing instruction (cargo aircraft) : 366  
Packing instruction (LQ) : Y344  
Packing group : III  
Labels : Flammable Liquids

**IATA (Passenger)**  
Packing instruction (passenger aircraft) : 355  
Packing instruction (LQ) : Y344  
Packing group : III  
Labels : Flammable Liquids

### 14.5 Environmental hazards

**ADN**  
Environmentally hazardous : no

**ADR**  
Environmentally hazardous : no

**RID**  
Environmentally hazardous : no

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### IMDG

Marine pollutant : no

### 14.6 Special precautions for user

Remarks : ADR: Packages smaller than or equal to 450 litres, not goods/merchandise of Class 3 (exemption ADR 2.2.3.1.5)  
IMDG: Packages smaller than or equal to 450 litres, not goods/merchandise of Class 3 (transport acc. IMDG-code 2.3.2.5)

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 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 3

Number on list 40  
This substance/mixture shall not be used in aerosol dispensers intended for supply to the general public for entertainment and decorative purposes.

Number on list 75  
If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

Regulation (EU) No 2024/590 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

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Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. P5c FLAMMABLE LIQUIDS

Volatile organic compounds : Directive 2004/42/EC  
Volatile organic compounds (VOC) content: 500 g/l

### Other regulations:

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

### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

## SECTION 16: Other information

### Full text of H-Statements

|        |   |
|--------|---|
| H226   | : Flammable liquid and vapour.                          |
| H302   | : Harmful if swallowed.                                 |
| H304   | : May be fatal if swallowed and enters airways.         |
| H317   | : May cause an allergic skin reaction.                  |
| H318   | : Causes serious eye damage.                            |
| H336   | : May cause drowsiness or dizziness.                    |
| H360D  | : May damage the unborn child.                          |
| H361f  | : Suspected of damaging fertility.                      |
| H400   | : Very toxic to aquatic life.                           |
| H410   | : Very toxic to aquatic life with long lasting effects. |
| EUH066 | : Repeated exposure may cause skin dryness or cracking. |

### Full text of other abbreviations

|                  |  |
|------------------|--|
| Acute Tox.       | : Acute toxicity   |
| Aquatic Acute    | : Short-term (acute) aquatic hazard  |
| Aquatic Chronic  | : Long-term (chronic) aquatic hazard   |
| Asp. Tox.        | : Aspiration hazard  |
| Eye Dam.         | : Serious eye damage   |
| Flam. Liq.       | : Flammable liquids  |
| Repr.            | : Reproductive toxicity  |
| Skin Sens.       | : Skin sensitisation   |
| 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   |
| 2004/37/EC       | : Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens, mutagens or reprotoxic substances at work - Annex III |
| IE OEL           | : Ireland. List of Chemical Agents and Carcinogens with Occupational Exposure Limit Values - Code of Practice, Schedule 1 and 2                                      |
| 2000/39/EC / TWA | : Limit Value - eight hours  |

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|                               |   |  |
|-------------------------------|---|--|
| 2000/39/EC / STEL             | : | Short term exposure limit                                      |
| 2004/37/EC / TWA              | : | Long term exposure limit                                       |
| IE OEL / OELV - 8 hrs (TWA)   | : | Occupational exposure limit value (8-hour reference period)    |
| IE OEL / OELV - 15 min (STEL) | : | Occupational exposure limit value (15-minute reference period) |

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 Harmonised 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 Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; 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 - Organisation 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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

|                   |      |
|-------------------|------|
| Flam. Liq. 3      | H226 |
| STOT SE 3         | H336 |
| Aquatic Chronic 3 | H412 |

#### Classification procedure:

|                                     |
|-------------------------------------|
| Based on product data or assessment |
| Calculation method                  |
| Calculation method                  |

|  |   |
|--|---|
| Material codes (bulk) for which the SDS is valid | 400677 , 401630, 401631, 401632, 401633, 401634, 401635, 401638, 401703, 401704, 401705, 401706, 401707, 401791, 401796, 401797, 403014 |
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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## TESSAROL DIRECT 3in1 RAL----

|         |                |                       |                                 |
|---------|----------------|-----------------------|---------------------------------|
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