

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## THINNER V 18 H 1410

Version  
4.0

Revision Date:  
16.07.2018

Date of last issue: 15.12.2017  
Date of first issue: 26.11.2015

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

#### 1.1 Product identifier

Trade name : THINNER V 18 H

Product code : 88040082

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

Use of the Sub-  
stance/Mixture : Chemical, Industrial use

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

Company : Cromartie Hobbycraft Ltd  
Park Hall Road, Longton  
Stoke-on-Trent, Staffordshire ST3 5AY  
Telephone : 01782 319435

E-mail address of person  
responsible for the SDS : [enquiries@cromartie.co.uk](mailto:enquiries@cromartie.co.uk)

#### 1.4 Emergency telephone number

Emergency telephone num-  
ber : 01782 319435

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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 2             | H225: Highly flammable liquid and vapour.      |
| Acute toxicity, Category 4                | H302: Harmful if swallowed.                    |
| Acute toxicity, Category 4                | H332: Harmful if inhaled.                      |
| Acute toxicity, Category 4                | H312: Harmful in contact with skin.            |
| Skin irritation, Category 2               | H315: Causes skin irritation.                  |
| Eye irritation, Category 2                | H319: Causes serious eye irritation.           |
| Skin sensitisation, Category 1            | H317: May cause an allergic skin reaction.     |
| Reproductive toxicity, Category 2         | H361d: Suspected of damaging the unborn child. |
| Specific target organ toxicity - repeated | H373: May cause damage to organs through pro-  |

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exposure, Category 2, Central nervous system

longed or repeated exposure.

Aspiration hazard, Category 1

H304: May be fatal if swallowed and enters airways.

Chronic aquatic toxicity, Category 2

H411: Toxic to aquatic life with long lasting effects.

### 2.2 Label elements

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

Hazard pictograms



Signal word

: Danger

Hazard statements

: H225 Highly flammable liquid and vapour.  
H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H361d Suspected of damaging the unborn child.  
H373 May cause damage to organs (Central nervous system) through prolonged or repeated exposure.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

#### **Prevention:**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

#### **Response:**

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P331 Do NOT induce vomiting.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  
P391 Collect spillage.

Hazardous components which must be listed on the label:

Turpentine, oil  
toluene  
Rosemary oil

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### 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.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Paint

#### Hazardous components

| Chemical name   | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification   | Concentration<br>(% w/w) |
|-----------------|---|--|--------------------------|
| Turpentine, oil | 8006-64-2<br>232-350-7<br>650-002-00-6                | Flam. Liq. 3; H226<br>Acute Tox. 4; H302<br><b>Acute Tox. 4; H332</b><br>Acute Tox. 4; H312<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Skin Sens. 1; H317<br><b>Asp. Tox. 1; H304</b><br>Aquatic Chronic 2;<br>H411 | >= 70 - < 90             |
| Toluene         | 108-88-3<br>203-625-9<br>601-021-00-3                 | Flam. Liq. 2; H225<br>Skin Irrit. 2; H315<br><b>Repr. 2; H361d</b><br>STOT SE 3; H336<br>STOT RE 2; H373<br>Asp. Tox. 1; H304<br>Aquatic Chronic 3;<br>H412  | >= 10 - < 20             |
| Rosemary oil    | 8000-25-7   | Flam. Liq. 3; H226<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Skin Sens. 1B; H317<br><b>Asp. Tox. 1; H304</b><br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410   | >= 2.5 - < 10            |
| Lavender oil    | 8000-28-0   | <b>Skin Irrit. 2; H315</b><br>Eye Irrit. 2; H319   | >= 1 - < 10              |

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : First aider needs to protect himself.  
Move out of dangerous area.

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Show this safety data sheet to the doctor in attendance.

- If inhaled : Move to fresh air.  
If breathing is irregular or stopped, administer artificial respiration.  
Get medical attention.
- In case of skin contact : Take off all contaminated clothing immediately.  
Wash off with:  
Polyethylene glycol 400.  
Obtain medical attention.
- In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Keep eye wide open while rinsing.  
Protect unharmed eye.  
Call a physician immediately.
- If swallowed : Immediately give large quantities of water to drink.  
Do NOT induce vomiting.  
Keep respiratory tract clear.  
Get medical attention.

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

- Risks : Harmful if swallowed, in contact with skin or if inhaled.  
May be fatal if swallowed and enters airways.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
Suspected of damaging the unborn child.  
May cause damage to organs through prolonged or repeated exposure.

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

- Treatment : Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

- Specific hazards during fire-fighting : Exposure to decomposition products may be a hazard to health.
- Hazardous combustion products : Carbon oxides

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### 5.3 Advice for firefighters

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

Further information : Use a water spray to cool fully closed containers. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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## SECTION 6: Accidental release measures

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

Personal precautions : Follow safe handling advice and personal protective equipment recommendations. Ensure adequate ventilation. Evacuate personnel to safe areas. Refer to protective measures listed in sections 7 and 8.

### 6.2 Environmental precautions

Environmental precautions : Do not allow contact with soil, surface or ground water. Do not let product enter drains. 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, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Sweep up or vacuum up spillage and collect in suitable container for disposal.

### 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 : Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment. Keep away from heat and sources of ignition. Avoid inhalation, ingestion and contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area.

Hygiene measures : Keep away from food and drink. Wash hands before breaks and at the end of workday. Keep working clothes separately. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

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

Requirements for storage areas and containers : Keep tightly closed in a dry, cool and well-ventilated place. Keep locked up or in an area accessible only to qualified or authorised persons.

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components          | CAS-No.   | Value type (Form of exposure) | Control parameters               | Basis      |
|---------------------|---|-------------------------------|----------------------------------|------------|
| Turpentine, oil     | 8006-64-2   | STEL                          | 150 ppm<br>850 mg/m <sup>3</sup> | GB EH40    |
|                     |   | TWA                           | 100 ppm<br>566 mg/m <sup>3</sup> | GB EH40    |
| toluene             | 108-88-3  | TWA                           | 50 ppm<br>192 mg/m <sup>3</sup>  | 2006/15/EC |
| Further information | Indicative, Identifies the possibility of significant uptake through the skin   |                               |                                  |            |
|                     |   | STEL                          | 100 ppm<br>384 mg/m <sup>3</sup> | 2006/15/EC |
| Further information | Indicative, Identifies the possibility of significant uptake through the skin   |                               |                                  |            |
|                     |   | TWA                           | 50 ppm<br>191 mg/m <sup>3</sup>  | GB EH40    |
| Further information | Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |                               |                                  |            |
|                     |   | STEL                          | 100 ppm<br>384 mg/m <sup>3</sup> | GB EH40    |
| Further information | Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |                               |                                  |            |

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

| Substance name  | End Use   | Exposure routes | Potential health effects   | Value                  |
|-----------------|-----------|-----------------|----------------------------|------------------------|
| Turpentine, oil | Workers   | Inhalation      | Long-term systemic effects | 11.2 mg/m <sup>3</sup> |
|                 | Workers   | Skin contact    | Long-term systemic effects | 1.6 mg/kg bw/day       |
|                 | Consumers | Ingestion       | Long-term systemic effects | 0.57 mg/kg bw/day      |
| toluene         | Workers   | Inhalation      | Acute systemic effects     | 384 mg/m <sup>3</sup>  |
|                 | Workers   | Inhalation      | Acute local effects        | 384 mg/m <sup>3</sup>  |
|                 | Workers   | Skin contact    | Long-term systemic effects | 384 mg/kg bw/day       |
|                 | Workers   | Inhalation      | Long-term systemic         | 192 mg/m <sup>3</sup>  |

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|  |           |              | effects                    |                        |
|--|-----------|--------------|----------------------------|------------------------|
|  | Workers   | Inhalation   | Long-term local effects    | 192 mg/m <sup>3</sup>  |
|  | Consumers | Inhalation   | Acute systemic effects     | 226 mg/m <sup>3</sup>  |
|  | Consumers | Inhalation   | Acute local effects        | 226 mg/m <sup>3</sup>  |
|  | Consumers | Skin contact | Long-term systemic effects | 226 mg/kg bw/day       |
|  | Consumers | Inhalation   | Long-term systemic effects | 56.5 mg/m <sup>3</sup> |
|  | Consumers | Ingestion    | Long-term systemic effects | 8.13 mg/kg bw/day      |
|  | Consumers | Inhalation   | Long-term local effects    | 56.5 mg/m <sup>3</sup> |

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

| Substance name | Environmental Compartment | Value       |
|----------------|---------------------------|-------------|
| toluene        | Fresh water               | 0.68 mg/l   |
|                | Marine water              | 0.68 mg/l   |
|                | Intermittent use/release  | 0.68 mg/l   |
|                | Sewage treatment plant    | 13.61 mg/l  |
|                | Fresh water sediment      | 16.39 mg/kg |
|                | Marine sediment           | 16.39 mg/kg |
|                | Soil                      | 2.89 mg/kg  |

## 8.2 Exposure controls

### Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

### Personal protective equipment

Eye protection : Safety glasses with side-shields

Hand protection

Remarks

: Before removing gloves clean them with soap and water. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. 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. As the product is a mixture of several substances, the durability of the glove materials can-not be calculated in advance and has to be tested before use.

Skin and body protection

: Impervious clothing  
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.

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Filter type : Recommended Filter type:  
Filter type ABEK-P

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### SECTION 9: Physical and chemical properties

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

Appearance : liquid

Colour : colourless

Odour : characteristic

Odour Threshold : No data available

pH : Not applicable

Melting point/range : No data available

Boiling point/boiling range : > 35 °C  
(1,013 hPa)

Flash point : 10 °C(1,013 hPa)

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : <= 1,100 hPa (50 °C)

Relative vapour density : No data available

Relative density : No data available

Density : > 1 g/cm<sup>3</sup> (23 °C, 1,013 hPa)

Solubility(ies)

    Water solubility : insoluble (20 °C, 1,013 hPa)

    Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : No data available



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Decomposition temperature : No data available

### Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : < 40 mm<sup>2</sup>/s (23 °C)  
< 20.5 mm<sup>2</sup>/s (40 °C)

Explosive properties : Not applicable

Oxidizing properties : Not applicable

### 9.2 Other information

Self-ignition : Not applicable

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

Conditions to avoid : No data available

### 10.5 Incompatible materials

Materials to avoid : No data available

### 10.6 Hazardous decomposition products

No data available

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Harmful if swallowed, in contact with skin or if inhaled.

#### Product:

Acute oral toxicity : Acute toxicity estimate: 689.66 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Assessment: The substance/mixture is not toxic on inhalation as defined by dangerous goods regulations.

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Acute toxicity estimate: 18.9 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: 1,518 mg/kg  
Method: Calculation method

### Components:

#### **Turpentine, oil:**

Acute oral toxicity : Acute toxicity estimate: 500 mg/kg  
Method: Expert judgement  
Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

Acute inhalation toxicity : LC50 (Rat): 13.7 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : Acute toxicity estimate: 1,100 mg/kg  
Method: Expert judgement  
Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

#### **toluene:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 28.1 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

#### **Rosemary oil:**

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

Acute dermal toxicity : LD50 (Rabbit): > 10,000 mg/kg

#### **Lavender oil:**

Acute oral toxicity : LD50 (Rat): 4,250 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

#### **Skin corrosion/irritation**

Causes skin irritation.

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### Components:

#### **Turpentine, oil:**

Species : reconstructed human epidermis (RhE)  
Result : Skin irritation

#### **toluene:**

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

#### **Rosemary oil:**

Species : Rabbit  
Result : Skin irritation

#### **Lavender oil:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Skin irritation  
Remarks : Based on data from similar materials

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

Causes serious eye irritation.

### Components:

#### **Turpentine, oil:**

Result : Irritation to eyes, reversing within 21 days  
Remarks : Based on harmonised classification in EU regulation  
1272/2008, Annex VI

#### **toluene:**

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

#### **Rosemary oil:**

Result : Irritation to eyes, reversing within 21 days

#### **Lavender oil:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Irritation to eyes, reversing within 21 days  
Remarks : Based on data from similar materials

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### Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

#### Respiratory sensitisation

Not classified based on available information.

#### Components:

##### **Turpentine, oil:**

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

Assessment : Probability or evidence of skin sensitisation in humans

##### **toluene:**

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : negative

##### **Rosemary oil:**

Result : Probability or evidence of low to moderate skin sensitisation rate in humans

Remarks : Based on data from similar materials

### Germ cell mutagenicity

Not classified based on available information.

#### Components:

##### **Turpentine, oil:**

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative

##### **toluene:**

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Result: negative

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

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)  
Species: Mouse  
Application Route: Ingestion  
Result: negative

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### Rosemary oil:

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

### Carcinogenicity

Not classified based on available information.

### Components:

#### toluene:

Species : Rat  
Application Route : inhalation (vapour)  
Exposure time : 24 Months  
Result : negative

### Reproductive toxicity

Suspected of damaging the unborn child.

### Components:

#### Turpentine, oil:

Effects on fertility : Test Type: One-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Result: negative

Effects on foetal development : Test Type: Fertility/early embryonic development  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 414  
Result: negative  
Remarks: Based on data from similar materials

#### toluene:

Effects on fertility : Test Type: One-generation reproduction toxicity study  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: inhalation (vapour)  
Result: positive

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

### STOT - single exposure

Not classified based on available information.

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### Components:

#### **toluene:**

Assessment : May cause drowsiness or dizziness.

#### **STOT - repeated exposure**

May cause damage to organs (Central nervous system) through prolonged or repeated exposure.

### Components:

#### **toluene:**

Target Organs : Central nervous system  
Assessment : May cause damage to organs through prolonged or repeated exposure.

#### **Repeated dose toxicity**

### Components:

#### **toluene:**

Species : Rat  
LOAEL : 1.875 mg/l  
Application Route : inhalation (vapour)  
Exposure time : 6 Months

#### **Aspiration toxicity**

May be fatal if swallowed and enters airways.

### Components:

#### **Turpentine, oil:**

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

#### **toluene:**

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

#### **Rosemary oil:**

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

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

#### **Turpentine, oil:**

Toxicity to fish : LL50 (Danio rerio (zebra fish)): 29 mg/l

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Exposure time: 96 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 8.8 mg/l  
Exposure time: 48 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 202

Toxicity to algae : EL50 (Desmodesmus subspicatus (green algae)): 16.4 mg/l  
Exposure time: 72 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 201

### **toluene:**

Toxicity to fish : LC50 (Oncorhynchus kisutch (coho salmon)): 5.5 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Ceriodaphnia dubia (water flea)): 3.78 mg/l  
Exposure time: 48 h

Toxicity to algae : NOEC (Skeletonema costatum (marine diatom)): 10 mg/l  
Exposure time: 72 h

Toxicity to microorganisms : EC50 (Nitrosomonas sp.): 84 mg/l  
Exposure time: 24 h

Toxicity to fish (Chronic toxicity) : NOEC: 1.39 mg/l  
Exposure time: 40 d  
Species: Oncorhynchus kisutch (coho salmon)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

NOEC: 0.74 mg/l  
Exposure time: 7 d  
Species: Ceriodaphnia dubia (water flea)

### **Rosemary oil:**

Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): > 0.1 - 1 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

### **Lavender oil:**

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 11 mg/l

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- Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 15 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials
- Toxicity to algae : NOEC (Desmodesmus subspicatus (green algae)): 9.6 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials
- ErC50 (Desmodesmus subspicatus (green algae)): 62 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials
- Toxicity to microorganisms : EC50 : > 1,000 mg/l  
Exposure time: 30 min  
Method: ISO 8192  
Remarks: Based on data from similar materials

### 12.2 Persistence and degradability

#### Components:

##### **Turpentine, oil:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 71.7 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

##### **toluene:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 86 %  
Exposure time: 20 d

##### **Rosemary oil:**

Biodegradability : Result: Readily biodegradable.  
Remarks: Based on data from similar materials

##### **Lavender oil:**

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



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### 12.3 Bioaccumulative potential

#### Components:

##### **Turpentine, oil:**

Partition coefficient: n-octanol/water : log Pow: > 4  
Method: OECD Test Guideline 117  
Remarks: Based on data from similar materials

##### **toluene:**

Bioaccumulation : Species: Leuciscus idus (Golden orfe)  
Bioconcentration factor (BCF): 90

Partition coefficient: n-octanol/water : log Pow: 2.73

##### **Rosemary oil:**

Partition coefficient: n-octanol/water : log Pow: > 4

### 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..

### 12.6 Other adverse effects

No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging : Dispose of as unused product.

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## SECTION 14: Transport information

### 14.1 UN number

ADN : UN 1263

ADR : UN 1263

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**RID** : UN 1263  
**IMDG** : UN 1263  
**IATA** : UN 1263

### 14.2 UN proper shipping name

**ADN** : PAINT  
**ADR** : PAINT  
**RID** : PAINT  
**IMDG** : PAINT  
(Turpentine, Rosemary oil)  
**IATA** : Paint

### 14.3 Transport hazard class(es)

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

### 14.4 Packing group

**ADN**  
Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3  
Remarks : Special Provision 640D

**ADR**  
Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3  
Tunnel restriction code : (D/E)  
Remarks : Special Provision 640D

**RID**  
Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3  
Remarks : Special Provision 640D

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

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### IATA (Cargo)

Packing instruction (cargo aircraft) : 364  
Packing instruction (LQ) : Y341  
Packing group : II  
Labels : Flammable Liquids

### IATA (Passenger)

Packing instruction (passenger aircraft) : 353  
Packing instruction (LQ) : Y341  
Packing group : II  
Labels : Flammable Liquids

### 14.5 Environmental hazards

#### ADN

Environmentally hazardous : yes

#### ADR

Environmentally hazardous : yes

#### RID

Environmentally hazardous : yes

#### IMDG

Marine pollutant : yes

### 14.6 Special precautions for user

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

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

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

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

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

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

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

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

toluene (48)

Storage class (TRGS 510) : 3: Flammable liquids

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

|     |                       | Quantity 1 | Quantity 2 |
|-----|-----------------------|------------|------------|
| P5c | FLAMMABLE LIQUIDS     | 5,000 t    | 50,000 t   |
| E2  | ENVIRONMENTAL HAZARDS | 200 t      | 500 t      |

### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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 has not been carried out.

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## SECTION 16: Other information

### Full text of H-Statements

|       |  |
|-------|--|
| H225  | : Highly flammable liquid and vapour.                                |
| H226  | : Flammable liquid and vapour.                                       |
| H302  | : Harmful if swallowed.  |
| H304  | : May be fatal if swallowed and enters airways.                      |
| H312  | : Harmful in contact with skin.                                      |
| H315  | : Causes skin irritation.  |
| H317  | : May cause an allergic skin reaction.                               |
| H319  | : Causes serious eye irritation.                                     |
| H332  | : Harmful if inhaled.  |
| H336  | : May cause drowsiness or dizziness.                                 |
| H361d | : Suspected of damaging the unborn child.                            |
| H373  | : May cause damage to organs through prolonged or repeated exposure. |
| H400  | : Very toxic to aquatic life.  |
| H410  | : Very toxic to aquatic life with long lasting effects.              |
| H411  | : Toxic to aquatic life with long lasting effects.                   |
| H412  | : Harmful to aquatic life with long lasting effects.                 |

### Full text of other abbreviations

|                 |                            |
|-----------------|----------------------------|
| Acute Tox.      | : Acute toxicity           |
| Aquatic Acute   | : Acute aquatic toxicity   |
| Aquatic Chronic | : Chronic aquatic toxicity |
| Asp. Tox.       | : Aspiration hazard        |

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|                   |   |  |
|-------------------|---|--|
| Eye Irrit.        | : | Eye irritation   |
| Flam. Liq.        | : | Flammable liquids                                      |
| Repr.             | : | Reproductive toxicity                                  |
| Skin Irrit.       | : | Skin irritation  |
| Skin Sens.        | : | Skin sensitisation                                     |
| STOT RE           | : | Specific target organ toxicity - repeated exposure     |
| STOT SE           | : | Specific target organ toxicity - single exposure       |
| 2006/15/EC        | : | Europe. Indicative occupational exposure limit values  |
| GB EH40           | : | UK. EH40 WEL - Workplace Exposure Limits               |
| 2006/15/EC / TWA  | : | Limit Value - eight hours                              |
| 2006/15/EC / STEL | : | Short term exposure limit                              |
| GB EH40 / TWA     | : | Long-term exposure limit (8-hour TWA reference period) |
| GB EH40 / STEL    | : | Short-term exposure limit (15-minute reference period) |

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; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance 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. 2 | H225 |
| Acute Tox. 4 | H302 |
| Acute Tox. 4 | H332 |

#### Classification procedure:

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

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|                   |       |                    |
|-------------------|-------|--------------------|
| Acute Tox. 4      | H312  | Calculation method |
| Skin Irrit. 2     | H315  | Calculation method |
| Eye Irrit. 2      | H319  | Calculation method |
| Skin Sens. 1      | H317  | Calculation method |
| Repr. 2           | H361d | Calculation method |
| STOT RE 2         | H373  | Calculation method |
| Asp. Tox. 1       | H304  | Calculation method |
| Aquatic Chronic 2 | H411  | Calculation method |

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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