



# Safety data sheet according to UK REACH

Printing date 10.03.2025

Version number 5 (replaces version 4)

Revision: 25.02.2025

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

- **1.1 Product identifier**
- **Trade name: JOHA Italian balsamic oil varnish dilution**
- **Article number:** 2440
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture**  
As solution for natural resins.  
As dilution for varnish.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Hammerl GmbH & Co. KG  
Geigenlacke / Violin varnishes  
Hauptstraße 18  
91083 Baiersdorf  
Phone +49 (0)9133 2330  
Fax +49 (0)9133 5171  
e-mail [joha@hammerl.com](mailto:joha@hammerl.com)
- **1.4 Emergency telephone number:**  
Giftinformationszentrale Universitätsklinikum Mainz  
International  
24h Emergency number in German and English  
Phone: +49 6131 19240

## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 2      H225 Highly flammable liquid and vapour.



GHS07

Skin Sens. 1      H317 May cause an allergic skin reaction.

STOT SE 3      H336 May cause drowsiness or dizziness.

Aquatic Chronic 3      H412 Harmful to aquatic life with long lasting effects.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the GB CLP regulation.
- **Hazard pictograms**



GHS02      GHS07

- **Signal word** Danger

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**Trade name: JOHA Italian balsamic oil varnish dilution**

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· **Hazard-determining components of labelling:**

1-methoxy-2-propanol  
dipentene  
Turpentine, oil

· **Hazard statements**

H225 Highly flammable liquid and vapour.  
H317 May cause an allergic skin reaction.  
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.  
P103 Read carefully and follow all instructions.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P241 Use explosion-proof [electrical/ventilating/lighting] equipment.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**

39.7 % of the mixture consists of component(s) of unknown toxicity.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.  
· **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

|                                    |  |          |
|------------------------------------|--|----------|
| CAS: 64-17-5<br>EINECS: 200-578-6  | ethanol<br>Flam. Liq. 2, H225  | 25-50%   |
| CAS: 107-98-2<br>EINECS: 203-539-1 | 1-methoxy-2-propanol<br>Flam. Liq. 3, H226<br>STOT SE 3, H336  | 25-50%   |
| CAS: 138-86-3<br>EINECS: 205-341-0 | dipentene<br>Flam. Liq. 3, H226<br>Aquatic Acute 1, H400; Aquatic Chronic 1, H410<br>Skin Irrit. 2, H315; Skin Sens. 1, H317 | ≥1-<2.5% |
|                                    | Pineöl<br>Skin Irrit. 2, H315; Eye Irrit. 2, H319  | ≤2.5%    |
| CAS: 79-92-5<br>EINECS: 201-234-8  | camphene<br>Flam. Liq. 3, H226<br>Eye Irrit. 2, H319   | ≤2.5%    |
| CAS: 78-93-3<br>EINECS: 201-159-0  | butanone<br>Flam. Liq. 2, H225<br>Eye Irrit. 2, H319; STOT SE 3, H336<br>EUH066  | ≤2.5%    |

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|-------------------------------------|--|--------------------|
| CAS: 76-22-2<br>EINECS: 200-945-0   | 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one<br>Flam. Sol. 2, H228<br>Acute Tox. 3, H301  | ≤2.5%              |
| CAS: 8006-64-2<br>EINECS: 232-350-7 | Turpentine, oil<br>Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411<br>Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 | ≥0.1-<0.25%        |

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

#### · 4.1 Description of first aid measures

##### · After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:** Rinse opened eye for several minutes under running water.

· **After swallowing:** If symptoms persist consult doctor.

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

No further relevant information available.

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

No further relevant information available.

### SECTION 5: Firefighting measures

#### · 5.1 Extinguishing media

##### · Suitable extinguishing agents:

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

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

No further relevant information available.

#### · 5.3 Advice for firefighters

· **Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

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

Wear protective equipment. Keep unprotected persons away.

#### · 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

#### · 6.4 Reference to other sections

See Section 7 for information on safe handling.

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See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
  - **Storage:**
  - **Requirements to be met by storerooms and receptacles:** Store in a cool location.
  - **Information about storage in one common storage facility:** Not required.
  - **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

#### · **Ingredients with limit values that require monitoring at the workplace:**

##### **64-17-5 ethanol**

|     |  |
|-----|--|
| WEL | Long-term value: 1920 mg/m <sup>3</sup> , 1000 ppm |
|-----|--|

##### **107-98-2 1-methoxy-2-propanol**

|     |   |
|-----|---|
| WEL | Short-term value: 560 mg/m <sup>3</sup> , 150 ppm<br>Long-term value: 375 mg/m <sup>3</sup> , 100 ppm<br>Sk |
|-----|---|

##### **78-93-3 butanone**

|     |   |
|-----|---|
| WEL | Short-term value: 899 mg/m <sup>3</sup> , 300 ppm<br>Long-term value: 600 mg/m <sup>3</sup> , 200 ppm<br>Sk, BMGV |
|-----|---|

##### **76-22-2 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one**

|     |   |
|-----|---|
| WEL | Short-term value: 19 mg/m <sup>3</sup> , 3 ppm<br>Long-term value: 13 mg/m <sup>3</sup> , 2 ppm |
|-----|---|

##### **8006-64-2 Turpentine, oil**

|     |   |
|-----|---|
| WEL | Short-term value: 850 mg/m <sup>3</sup> , 150 ppm<br>Long-term value: 566 mg/m <sup>3</sup> , 100 ppm |
|-----|---|

#### · **Ingredients with biological limit values:**

##### **78-93-3 butanone**

|      |   |
|------|---|
| BMGV | 70 µmol/L<br>Medium: urine<br>Sampling time: post shift<br>Parameter: butan-2-one |
|------|---|

· **Additional information:** The lists valid during the making were used as basis.

#### · **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

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- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Hand protection**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye/face protection**



Tightly sealed goggles

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Physical state** Liquid
- **Colour:** Yellowish
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** Undetermined.
- **Boiling point or initial boiling point and boiling range** 78 °C
- **Flammability** Highly flammable.
- **Lower and upper explosion limit**
- **Lower:** 2.3 Vol %
- **Upper:** 20 Vol %
- **Flash point:** 13 °C
- **Auto-ignition temperature:** 270 °C
- **Decomposition temperature:** Not determined.
- **pH** Not determined.

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|  |   |
|--|---|
| · <b>Viscosity:</b>  |   |
| · <b>Kinematic viscosity</b>   | Not determined.   |
| · <b>Dynamic:</b>  | Not determined.   |
| · <b>Solubility</b>  |   |
| · <b>water:</b>  | Not miscible or difficult to mix.   |
| · <b>Partition coefficient n-octanol/water (log value)</b>                             | Not determined.   |
| · <b>Vapour pressure at 20 °C:</b>   | 59 hPa  |
| · <b>Density and/or relative density</b>   |   |
| · <b>Density at 20 °C:</b>   | 0.85851 g/cm <sup>3</sup>   |
| · <b>Relative density</b>  | Not determined.   |
| · <b>Vapour density</b>  | Not determined.   |
| · <b>9.2 Other information</b>   |   |
| · <b>Appearance:</b>   |   |
| · <b>Form:</b>   | Fluid   |
| · <b>Important information on protection of health and environment, and on safety.</b> |   |
| · <b>Ignition temperature:</b>   | Product is not selfigniting.  |
| · <b>Explosive properties:</b>   | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| · <b>Solvent content:</b>  |   |
| · <b>Organic solvents:</b>   | 76.8 %  |
| · <b>Solids content:</b>   | 11.5 %  |
| · <b>Change in condition</b>   |   |
| · <b>Evaporation rate</b>  | Not determined.   |
| · <b>Information with regard to physical hazard classes</b>                            |   |
| · <b>Explosives</b>  | Void  |
| · <b>Flammable gases</b>   | Void  |
| · <b>Aerosols</b>  | Void  |
| · <b>Oxidising gases</b>   | Void  |
| · <b>Gases under pressure</b>  | Void  |
| · <b>Flammable liquids</b>   | Highly flammable liquid and vapour.   |
| · <b>Flammable solids</b>  | Void  |
| · <b>Self-reactive substances and mixtures</b>   | Void  |
| · <b>Pyrophoric liquids</b>  | Void  |
| · <b>Pyrophoric solids</b>   | Void  |
| · <b>Self-heating substances and mixtures</b>  | Void  |
| · <b>Substances and mixtures, which emit flammable gases in contact with water</b>     | Void  |
| · <b>Oxidising liquids</b>   | Void  |
| · <b>Oxidising solids</b>  | Void  |
| · <b>Organic peroxides</b>   | Void  |
| · <b>Corrosive to metals</b>   | Void  |
| · <b>Desensitised explosives</b>   | Void  |

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.

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- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**SECTION 11: Toxicological information**

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values relevant for classification:**

**64-17-5 ethanol**

|            |          |  |
|------------|----------|--|
| Oral       | LD50     | 3,450 mg/kg (mouse)<br>7,060 mg/kg (rat)<br>6,300 mg/kg (rabbit) |
| Dermal     | LD50     | >2,000 mg/kg (rat)   |
| Inhalative | LC50/4 h | 20,000 mg/l (rat)  |

**107-98-2 1-methoxy-2-propanol**

|        |      |                       |
|--------|------|-----------------------|
| Oral   | LD50 | 4,016 mg/kg (rat)     |
| Dermal | LD50 | 13,000 mg/kg (rabbit) |

**98-55-5 alpha-Terpineol**

|      |      |                   |
|------|------|-------------------|
| Oral | LD50 | 4,300 mg/kg (rat) |
|------|------|-------------------|

**79-92-5 camphene**

|        |      |                   |
|--------|------|-------------------|
| Oral   | LD50 | 5,000 mg/kg (rat) |
| Dermal | LD50 | 2,500 mg/kg (rab) |

- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **STOT-single exposure** May cause drowsiness or dizziness.
- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

|         |          |         |
|---------|----------|---------|
| 78-93-3 | butanone | List II |
|---------|----------|---------|

**SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.

- **Type of test** Effective concentration Method Assessment

**64-17-5 ethanol**

|            |                                 |
|------------|---------------------------------|
| EC50 (48h) | 9,268 mg/l (daphnia magna)      |
| LC50 (48h) | 8,140 mg/l (gol)                |
| LC50 (24h) | >100 mg/l (daphnia magna)       |
| EC5 (16h)  | 6,500 mg/l (Pseudomonas Putita) |

**107-98-2 1-methoxy-2-propanol**

|            |                             |
|------------|-----------------------------|
| LC50 (48h) | 23,300 mg/l (daphnia magna) |
| LC50 (96h) | >6,800 mg/l (gol)           |

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EC50 (3h) &gt;1,000 mg/l (Pseudomonas Putita)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**  
For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.  
Harmful to aquatic organisms

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- **14.1 UN number or ID number**
- **ADR, IMDG, IATA** UN1170
- **14.2 UN proper shipping name**
- **ADR** 1170 ETHANOL (ETHYL ALCOHOL)
- **IMDG** ETHANOL (ETHYL ALCOHOL)
- **IATA** ETHANOL
- **14.3 Transport hazard class(es)**
- **ADR, IMDG, IATA**
- 
- **Class** 3 Flammable liquids.
- **Label** 3
- **14.4 Packing group**
- **ADR, IMDG, IATA** II
- **14.5 Environmental hazards:**
- **Marine pollutant:** No

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|   |   |
|---|---|
| · <b>14.6 Special precautions for user</b>                            | Warning: Flammable liquids.   |
| · <b>Hazard identification number (Kemler code):</b>                  | 33  |
| · <b>EMS Number:</b>  | F-E,S-D   |
| · <b>Stowage Category</b>   | A   |
| · <b>14.7 Maritime transport in bulk according to IMO instruments</b> | Not applicable.   |
| · <b>Transport/Additional information:</b>                            |   |
| · <b>ADR</b>  |   |
| · <b>Limited quantities (LQ)</b>                                      | 1L  |
| · <b>Excepted quantities (EQ)</b>                                     | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| · <b>Transport category</b>   | 2   |
| · <b>Tunnel restriction code</b>                                      | D/E   |
| · <b>IMDG</b>   |   |
| · <b>Limited quantities (LQ)</b>                                      | 1L  |
| · <b>Excepted quantities (EQ)</b>                                     | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| · <b>UN "Model Regulation":</b>                                       | UN 1170 ETHANOL (ETHYL ALCOHOL), 3, II  |

**SECTION 15: Regulatory information**

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

**· Regulated explosives precursors**

None of the ingredients is listed.

**· Regulated poisons**

None of the ingredients is listed.

**· Reportable explosives precursors**

None of the ingredients is listed.

**· Reportable poisons**

None of the ingredients is listed.

**· Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the GB CLP regulation.

**· Hazard pictograms**

GHS02 GHS07

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- **Signal word** Danger
- **Hazard-determining components of labelling:**
  - 1-methoxy-2-propanol
  - dipentene
  - Turpentine, oil
- **Hazard statements**
  - H225 Highly flammable liquid and vapour.
  - H317 May cause an allergic skin reaction.
  - 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.
  - P103 Read carefully and follow all instructions.
  - P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
  - P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
  - P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
  - P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
  - P405 Store locked up.
  - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category** P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t
- **National regulations:**
- **Additional classification according to Decree on Hazardous Materials, Annex II:** Carcinogenic hazardous material group III (dangerous).
- **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **15.2 Chemical safety assessment:**  
A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
  - H225 Highly flammable liquid and vapour.
  - H226 Flammable liquid and vapour.
  - H228 Flammable solid.
  - H301 Toxic if swallowed.
  - 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.

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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.  
EUH066 Repeated exposure may cause skin dryness or cracking.

· **Department issuing SDS:** Abteilung Umweltschutz

· **Contact:** Hr. Hammerl

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Flam. Sol. 2: Flammable solids – Category 2

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· \* **Data compared to the previous version altered.**

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