

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 18.06.2019

Version: 5

Revision: 14.02.2018

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

· **1.1 Product identifier**

· Trade name: **ZEPHYRA MAX AGRUMES**

· Article number: 12420001

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

· **Sector of Use**

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

· **Product category** PC3 Air care products

· **Process category**

PROC7 Industrial spraying

PROC11 Non industrial spraying

· **Application of the substance / the mixture** Odour neutralising agent

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

· **Manufacturer/Supplier:**

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UK: Tel: +44 151 422 1000 Fax: +44 151 422 1011

· **1.4 Emergency telephone number:**

Customer Service

NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710

B: Tel: +32 2 347 0117 Fax: +32 2 347 1395

IT: Tel: +39 069 266 91 Fax: +39 06.927 470 61

UK: Tel: +44 151 422 1000 Fax: +44 151 422 1011

EU: Tel. 112

**SECTION 2: Hazards identification**

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

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

Aerosol 3 H229 Pressurised container: May burst if heated.

Eye Dam. 1 H318 Causes serious eye damage.

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

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 CLP regulation.

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## · Hazard pictograms



GHS05 GHS07

## · Signal word Danger

## · Hazard-determining components of labelling:

Geranyl Acetate  
d-limonene  
3,7-Dimethyl-2,6-octadienal

## · Hazard statements

H229 Pressurised container: May burst if heated.  
H318 Causes serious eye damage.  
H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.

## · Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P251 Do not pierce or burn, even after use.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

## · 2.3 Other hazards The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds.

## · Results of PBT and vPvB assessment

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

## SECTION 3: Composition/information on ingredients

## · 3.2 Chemical characterisation: Mixtures

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

## · Dangerous components:

|   |   |        |
|---|---|--------|
| CAS: 106-97-8<br>EINECS: 203-448-7<br>Reg.nr.: 01-2119474691-32-xxxx  | butane (< 0.1% butadine)<br>⚠ Flam. Gas 1, H220<br>⚠ Press. Gas C, H280   | 25-50% |
| CAS: 75-28-5<br>EINECS: 200-857-2<br>Reg.nr.: 01-2119485395-27-xxxx   | isobutane (<0.1% butadine)<br>⚠ Flam. Gas 1, H220<br>⚠ Press. Gas C, H280   | 10-25% |
| CAS: 64-17-5<br>EINECS: 200-578-6<br>Reg.nr.: 01-2119457610-43-xxxx   | ethanol<br>⚠ Flam. Liq. 2, H225   | 10-25% |
| CAS: 74-98-6<br>EINECS: 200-827-9<br>Reg.nr.: 012119486944-21-xxxx    | propane<br>⚠ Flam. Gas 1, H220<br>⚠ Press. Gas C, H280  | 2.5-5% |
| CAS: 68439-50-9<br>NLP: 500-213-3<br>Reg.nr.: 01-2449487984-16-xxxx   | Alcohol ethoxylate C12-C14<br>⚠ Eye Dam. 1, H318<br>⚠ Aquatic Acute 1, H400<br>⚠ Acute Tox. 4, H312   | 1-2.5% |
| CAS: 105-87-3<br>EINECS: 203-341-5<br>Reg.nr.: 01-2119973480-35-XXXX  | Geranyl Acetate<br>⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317<br>⚠ Aquatic Chronic 3, H412   | 0.1-1% |
| CAS: 5989-27-5<br>EINECS: 227-813-5<br>Reg.nr.: 01-2119529223-47-xxxx | d-limonene<br>⚠ Flam. Liq. 3, H226<br>⚠ Asp. Tox. 1, H304<br>⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410<br>⚠ Skin Irrit. 2, H315; Skin Sens. 1B, H317 | 0.1-1% |
| CAS: 5392-40-5<br>EINECS: 226-394-6<br>Reg.nr.: 01-2119462829-23-xxxx | 3,7-Dimethyl-2,6-octadienal<br>⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317   | 0.1-1% |

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· **Ingredients according to Detergents Regulation 648/2004/EC** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **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:**  
If skin irritation continues, consult a doctor.  
Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Seek immediate medical advice.
- **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.
- **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.
- **Additional information** Cool endangered receptacles with water spray.

### 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:**  
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:**  
Use neutralising agent.  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
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** Keep away from heat and direct sunlight.
- **Information about fire - and explosion protection:**  
Do not spray onto a naked flame or any incandescent material.  
Keep ignition sources away - Do not smoke.  
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Observe official regulations on storing packagings with pressurised containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further relevant information available.

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## SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

### · 8.1 Control parameters

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

#### 106-97-8 butane (< 0.1% butadine) (25-50%)

|                     |   |
|---------------------|---|
| WEL (Great Britain) | Short-term value: 1810 mg/m <sup>3</sup> , 750 ppm<br>Long-term value: 1450 mg/m <sup>3</sup> , 600 ppm<br>Carc (if more than 0.1% of buta-1.3-diene) |
|---------------------|---|

#### 64-17-5 ethanol (10-25%)

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

· **DNELs**

#### 64-17-5 ethanol

|            |   |                                  |
|------------|---|----------------------------------|
| Oral       | DNEL Long term-systemic                   | 87 mg/kg human/day (consumer)    |
| Dermal     | DNEL Long term-systemic                   | 206 mg/kg human/day (consumer)   |
|            |   | 343 mg/kg human/day (worker)     |
| Inhalative | DNEL Long term-systemic mg/m <sup>3</sup> | 114 mg/m <sup>3</sup> (consumer) |
|            |   | 950 mg/m <sup>3</sup> (worker)   |
|            | DNEL Long term local mg/m <sup>3</sup>    | 950 mg/m <sup>3</sup> (consumer) |
|            |   | 1,900 mg/m <sup>3</sup> (worker) |

#### 5989-27-5 d-limonene

|            |                                       |                                 |
|------------|---------------------------------------|---------------------------------|
| Oral       | DNEL acute-systemic                   | 4.76 mg/kg human/day (consumer) |
| Inhalative | DNEL Acute-systemic mg/m <sup>3</sup> | 33.3 mg/m <sup>3</sup> (worker) |

· **PNECs**

#### 64-17-5 ethanol

|                                  |                |
|----------------------------------|----------------|
| PNEC Freshwater mg/L             | 0.96 mg/L (-)  |
| PNEC Marinewater mg/L            | 0.79 mg/L (-)  |
| PNEC Freshwater sediment         | 3.6 mg/Kg (-)  |
| PNEC Marine water sediment       | 2.9 mg/Kg (-)  |
| PNEC Intermittent release        | 2.75 (-)       |
| PNEC Soil                        | 0.63 mg/Kg (-) |
| PNEC Sewage treatment Plant mg/L | 580 mg/L (-)   |

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

### · 8.2 Exposure controls

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.

· **Protection of hands:**



Protective gloves

· **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.

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

· **Not suitable are gloves made of the following materials:** Strong material gloves

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· Eye protection:



Tightly sealed goggles

## SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

|                    |                 |
|--------------------|-----------------|
| · Form:            | Aerosol         |
| · Colour:          | Colourless      |
| · Odour:           | Characteristic  |
| · Odour threshold: | Not determined. |

· pH-value: Not determined.

· Change in condition

|  |               |
|--|---------------|
| · Melting point/freezing point:            | Undetermined. |
| · Initial boiling point and boiling range: | -11 °C        |

· Flash point: -60 °C

· Flammability (solid, gas): Not applicable.

· Ignition temperature: 365 °C

· Decomposition temperature: Not determined.

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Explosion limits:

|          |           |
|----------|-----------|
| · Lower: | 1.5 Vol % |
| · Upper: | 15 Vol %  |

· Vapour pressure at 20 °C: 3000 hPa

· Density: Not determined.

· Relative density: Not determined.

· Vapour density: Not determined.

· Evaporation rate: Not applicable.

· Solubility in / Miscibility with water:

Insoluble.

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

· Dynamic: Not determined.

· Kinematic: Not determined.

· Solvent content:

· Organic solvents: 48.6 %

· Swiss VOC: 48.56 %

· 9.2 Other information: No further relevant information available.

## SECTION 10: Stability and reactivity

· 10.1 Reactivity: No further relevant information available.

· 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.

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· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**

· **Acute toxicity** Based on available data, the classification criteria are not met.

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

**64-17-5 ethanol**

|            |              |  |
|------------|--------------|--|
| Oral       | LD50         | 7,060 mg/kg (Rat)                          |
| Inhalative | LC50 / 4 h   | 20,000 mg/ltr (Rat)                        |
|            | EC 50 / 48 h | 10,800 mg/ltr (Daphnia magna (water flea)) |

**68439-50-9 Alcohol ethoxylate C12-C14**

|        |      |                   |
|--------|------|-------------------|
| Dermal | LD50 | 2,000 mg/kg (Rat) |
|--------|------|-------------------|

**5989-27-5 d-limonene**

|        |      |  |
|--------|------|--|
| Oral   | LD50 | 4,400 mg/kg (Rat)                        |
| Dermal | LD50 | >5,000 mg/kg (Rat)                       |
|        |      | >2,000 mg/kg (Rabbit)                    |
|        | EC50 | 34.1 mg/ltr (Daphnia magna (water flea)) |

**5392-40-5 3,7-Dimethyl-2,6-octadienal**

|        |              |                                       |
|--------|--------------|---------------------------------------|
| Oral   | LD50         | 4,960 mg/kg (Rat)                     |
| Dermal | LD50         | >2,000 mg/kg (Rat)                    |
|        | EC 50 / 48 h | 7 mg/ltr (Daphnia magna (water flea)) |

· **Primary irritant effect:**

· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.

· **Serious eye damage/irritation**

Causes serious eye damage.

· **Respiratory or skin sensitisation**

May cause an allergic skin reaction.

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

· **Carcinogenicity** Based on available data, the classification criteria are not met.

· **Reproductive toxicity** Based on available data, the classification criteria are not met.

· **STOT-single exposure** Based on available data, the classification criteria are not met.

· **STOT-repeated exposure** Based on available data, the classification criteria are not met.

· **Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

**5989-27-5 d-limonene**

|                 |   |
|-----------------|---|
| OECD test 301 D | >92 (biodegradation in % after 28 days) |
|-----------------|---|

**5392-40-5 3,7-Dimethyl-2,6-octadienal**

|     |                                       |
|-----|---------------------------------------|
| COD | 2,530 (mg O <sub>2</sub> / g product) |
|-----|---------------------------------------|

· **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.

· **Ecotoxicological effects:**

· **Remark:** Harmful to fish

· **Additional ecological information:**

· **General notes:**

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.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Harmful to aquatic organisms

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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· 12.6 Other adverse effects No further relevant information available.

### SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
- Recommendation Disposal must be made according to official regulations
- Uncleaned packaging:
- Recommendation: Disposal in accordance with administrative provisions

### SECTION 14: Transport information

|   |   |
|---|---|
| · 14.1 UN-Number  | UN1950  |
| · ADR, IMDG, IATA   |   |
| · 14.2 UN proper shipping name  | 1950 AEROSOLS   |
| · ADR   | AEROSOLS  |
| · IMDG  | AEROSOLS, flammable   |
| · IATA  |   |
| · 14.3 Transport hazard class(es)   |   |
| · ADR   |   |
|    |   |
| · Class   | 2 5F Gases.   |
| · Label   | 2.1   |
| · IMDG, IATA  |   |
|  |   |
| · Class   | 2.1   |
| · Label   | 2.1   |
| · 14.4 Packing group  | Void  |
| · ADR, IMDG, IATA   |   |
| · 14.5 Environmental hazards:   |   |
| · Marine pollutant:   | No  |
| · 14.6 Special precautions for user   | Warning: Gases.   |
| · Danger code (Kemler):   | -   |
| · EMS Number:   | F-D,S-U   |
| · Stowage Code  | SW1 Protected from sources of heat.<br>SW22 For AEROSOLS with a maximum capacity of 1 litre:<br>Category A. For AEROSOLS with a capacity above 1 litre:<br>Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.  |
| · Segregation Code  | SG69 For AEROSOLS with a maximum capacity of 1 litre:<br>Segregation as for class 9. Stow "separated from" class 1 except for division 1.4.<br>For AEROSOLS with a capacity above 1 litre:<br>Segregation as for the appropriate subdivision of class 2.<br>For WASTE AEROSOLS:<br>Segregation as for the appropriate subdivision of class 2. |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code           | Not applicable.   |

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**· Transport/Additional information:**

**· ADR**  
**· Limited quantities (LQ)** IL  
**· Excepted quantities (EQ)** Code: E0  
 Not permitted as Excepted Quantity  
**· Transport category** 2  
**· Tunnel restriction code** D

**· IMDG**  
**· Limited quantities (LQ)** IL  
**· Excepted quantities (EQ)** Code: E0  
 Not permitted as Excepted Quantity

**· UN "Model Regulation":** UN 1950 AEROSOLS, 2.1

**SECTION 15: Regulatory information****· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Reg. (EC) n. 1272/2008 - CLP;  
 Reg. (EC) n. 1907/2006 – Reach;  
 Reg. (EC) n. 2015/830 annex II of REACH;  
 Reg. (EC) n. 648/04 (Detergents);  
 Reg. (EC) n. 528/12 (Biocides BPR);  
 Reg. (EC) n. 1223/2009 (Cosmetics);  
 Dir. 06/08 ADR – RID - IMDG - IATA;  
 Dir. 47/08 (Aerosols); Dir. 12/18 (Seveso III);  
 Dir. 2008/98/CE and Reg. (EC) n.1357/2014 (Waste management)

**· Directive 2012/18/EU**

**· Named dangerous substances - ANNEX I** None of the ingredients is listed.  
**· REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

**· National regulations:****· Technical instructions (air):**

| Class | Share in % |
|-------|------------|
| NK    | 25-50      |

**· 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**

H220 Extremely flammable gas.  
 H225 Highly flammable liquid and vapour.  
 H226 Flammable liquid and vapour.  
 H280 Contains gas under pressure; may explode if heated.  
 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.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H400 Very toxic to aquatic life.  
 H410 Very toxic to aquatic life with long lasting effects.  
 H412 Harmful to aquatic life with long lasting effects.

**· Department issuing SDS:**

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 NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710  
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· **Abbreviations and acronyms:**

*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*

*IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)*

*ICAO: International Civil Aviation Organisation*

*ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)*

*ADR: Accord européen sur le transport 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)*

*DNEL: Derived No-Effect Level (REACH)*

*PNEC: Predicted No-Effect Concentration (REACH)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*Flam. Gas 1: Flammable gases – Category 1*

*Aerosol 3: Aerosols – Category 3*

*Press. Gas C: Gases under pressure – Compressed gas*

*Flam. Liq. 2: Flammable liquids – Category 2*

*Flam. Liq. 3: Flammable liquids – Category 3*

*Acute Tox. 4: Acute toxicity – Category 4*

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

*Eye Dam. 1: Serious eye damage/eye irritation – Category 1*

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

*Skin Sens. 1: Skin sensitisation – Category 1*

*Skin Sens. 1B: Skin sensitisation – Category 1B*

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

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

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