# Safety data sheet

according to 1907/2006/EC, Article 31

*Printing date 07.09.2020* *Version number 28* *Revision: 31.01.2020*

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

· **1.1 Product identifier**

· **Trade name: Zink-Alu Spray**

· **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** Coating

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

· **Manufacturer/Supplier:**
MIPA SE
Am Oberen Moos 1
D-84051 Essenbach
Tel.: +49(0)8703-922-0
Fax.: +49(0)8703-922-100
e-mail: sdb-registratur@mipa-paints.com
www.mipa-paints.com

**Distributor in New Zealand:**
**Mipa New Zealand**
33 Ha Crescent, Wiri, Auckland 2104
New Zealand
Phone: +64 9 25000 91
Fax: +64 9 25000 92
Email: sales@mipa.nz
Web: www.mipa.nz

**24hr Emergency Assistance in New Zealand**
National Poison Control Centre: 0800 POISON [764 766]

· **1.4 Emergency telephone number:** +49(0)700 24112112 (MIP)

## SECTION 2: Hazards identification

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

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

GHS02 flame

| | | |
|---|---|---|
| Aerosol 1 | H222-H229 | Extremely flammable aerosol. Pressurised container: May burst if heated. |

GHS09 environment

| | | |
|---|---|---|
| Aquatic Chronic 2 | H411 | Toxic to aquatic life with long lasting effects. |

GHS07

| | | |
|---|---|---|
| Eye Irrit. 2 | H319 | Causes serious eye irritation. |
| STOT SE 3 | H336 | May cause drowsiness or dizziness. |
| Asp. Tox. 1 | H304 | May be fatal if swallowed and enters airways. |

· **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***

GHS02 GHS07 GHS09

· ***Signal word*** *Danger*

· ***Hazard-determining components of labelling:***
*Xylene*
*acetone*
*Solvent naphtha (petroleum), light arom.*
*Naphtha (petroleum), hydrotreated heavy, benzene content < 0,1%*

· ***Hazard statements***
*H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.*
*H319 Causes serious eye irritation.*
*H336 May cause drowsiness or dizziness.*
*H411 Toxic 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 label before use.*
*P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.*
*P211 Do not spray on an open flame or other ignition source.*
*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.*
*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.*

· ***Additional information:***
*EUH066 Repeated exposure may cause skin dryness or cracking.*
*EUH208 Contains 2-Butanone oxime. May produce an allergic reaction.*

· ***2.3 Other hazards***

· ***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: 115-10-6*<br>*EINECS: 204-065-8*<br>*Reg.nr.: 01-2119472128-37* | *dimethyl ether*<br>*Flam. Gas 1, H220; Press. Gas (Liq.), H280* | *50-100%* |

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| | | |
|---|---|---|
| CAS: 67-64-1<br>EINECS: 200-662-2<br>Reg.nr.: 01-2119471330-49 | acetone<br>Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336 | ≥10-≤20% |
| CAS: 1330-20-7<br>EINECS: 215-535-7<br>Reg.nr.: 01-2119488216-32 | Xylene<br>Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 | 5-<10% |
| CAS: 2310-72-3 | Aluminiumpulver (phlegmatisiert)<br>Water-react. 2, H261 | 2.5-<10% |
| CAS: 7440-66-6<br>EINECS: 231-175-3<br>Reg.nr.: 01-2119467174-37 | zinc powder - zinc dust (stabilized)<br>Aquatic Acute 1, H400; Aquatic Chronic 1, H410 | 2.5-<10% |
| CAS: 64742-95-6<br>EINECS: 265-199-0 | Solvent naphtha (petroleum), light arom.<br>Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Acute Tox. 4, H332; STOT SE 3, H335 | 2.5-<10% |
| CAS: 100-41-4<br>EINECS: 202-849-4<br>Reg.nr.: 01-2119489370-35 | ethylbenzene<br>Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412 | <2.5% |
| CAS: 64742-48-9<br>EINECS: 265-150-3 | Naphtha (petroleum), hydrotreated heavy, benzene content < 0,1%<br>Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336 | <2.5% |
| CAS: 96-29-7<br>EINECS: 202-496-6<br>Reg.nr.: 01-2119539477-28 | 2-Butanone oxime<br>Carc. 2, H351; Eye Dam. 1, H318; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Sens. 1, H317 | ≥0.1-<1% |

· **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; consult doctor in case of complaints.
· **After skin contact:** Generally the product does not irritate the skin.
· **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· **After swallowing:** Seek immediate medical advice.
· **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

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· ***Information for doctor:***

## SECTION 5: Firefighting measures

· ***5.1 Extinguishing media***
· ***Suitable extinguishing agents:*** *CO2, sand, extinguishing powder. Do not use water.*
· ***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:***
*Wear self-contained respiratory protective device.*
*Do not inhale explosion gases or combustion gases.*

## 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:***
*Ensure adequate ventilation.*
*Do not flush with water or aqueous cleansing agents*
· ***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.*
*Ensure good ventilation/exhaustion at the workplace.*
*Open and handle receptacle with care.*
· ***Information about fire - and explosion protection:***
*Do not spray onto a naked flame or any incandescent material.*
*Keep ignition sources away - Do not smoke.*
*Protect against electrostatic charges.*
*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:***
*Store in a cool location.*
*Observe official regulations on storing packagings with pressurised containers.*

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· **Information about storage in one common storage facility:**
Store away from foodstuffs.
· **Further information about storage conditions:**
Do not seal receptacle gas tight.
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
· **Storage class:** 2 B
· **7.3 Specific end use(s)** No further relevant information available.

## 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:** | |
|---|---|
| **115-10-6 dimethyl ether** | |
| WEL | Short-term value: 958 mg/m³, 500 ppm<br>Long-term value: 766 mg/m³, 400 ppm |
| **67-64-1 acetone** | |
| WEL | Short-term value: 3620 mg/m³, 1500 ppm<br>Long-term value: 1210 mg/m³, 500 ppm |
| **1330-20-7 Xylene** | |
| WEL | Short-term value: 441 mg/m³, 100 ppm<br>Long-term value: 220 mg/m³, 50 ppm<br>Sk; BMGV |
| **100-41-4 ethylbenzene** | |
| WEL | Short-term value: 552 mg/m³, 125 ppm<br>Long-term value: 441 mg/m³, 100 ppm<br>Sk |

| · **Ingredients with biological limit values:** | |
|---|---|
| **1330-20-7 Xylene** | |
| BMGV | 650 mmol/mol creatinine<br>Medium: urine<br>Sampling time: post shift<br>Parameter: methyl hippuric acid |

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

· **8.2 Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
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.

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*Use suitable respiratory protective device in case of insufficient ventilation.*

· **Protection of hands:**

*Protective gloves (EN 374)*

*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.*

· **Breakthrough time of glove material**
*The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.*

· **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:** | *According to product specification* |
| · **Odour:** | *Characteristic* |
| · **Odour threshold:** | *Not determined.* |
| · **pH-value:** | *Not determined.* |
| · **Change in condition** | |
| **Melting point/freezing point:** | *Undetermined.* |
| **Initial boiling point and boiling range:** | *-24.9 °C* |
| · **Flash point:** | *<0 °C (DIN 53213)* |
| · **Flammability (solid, gas):** | *Not applicable.* |
| · **Ignition temperature:** | *235 °C (DIN 51794)* |
| · **Decomposition temperature:** | *Not determined.* |

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| | |
|---|---|
| · **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:** | 2.6 Vol % |
| **Upper:** | 18.6 Vol % |
| · **Vapour pressure at 20 °C:** | 5,200 hPa |
| · **Density at 20 °C:** | 0.773 g/cm³ (DIN EN ISO 2811-1) |
| · **Relative density** | Not determined. |
| · **Vapour density** | Not determined. |
| · **Evaporation rate** | Not applicable. |
| · **Solubility in / Miscibility with water:** | Not miscible or difficult to mix. |
| · **Partition coefficient: n-octanol/water:** | Not determined. |
| · **Viscosity:** | |
| **Dynamic:** | Not determined. |
| **Kinematic:** | Not determined. |
| · **Solvent content:** | |
| **VOC (EC)** | 90.20 % |
| **Solids content (weight-%):** | 4.9 % |
| · **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.
· **10.6 Hazardous decomposition products:** Carbon monoxide

## 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:** | | |
|---|---|---|
| **1330-20-7 Xylene** | | |
| Oral | LD50 | 5,251 mg/kg (rat) |

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| | | |
|---|---|---|
| Dermal | LD50 | >5,000 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 29 mg/l (rat) |
| **64742-95-6 Solvent naphtha (petroleum), light arom.** | | |
| Oral | LD50 | >6,800 mg/kg (rat) |
| Dermal | LD50 | >3,400 mg/kg (rab) |
| Inhalative | LC50/4 h | >10.2 mg/l (rat) |
| **96-29-7 2-Butanone oxime** | | |
| Oral | LD50 | 3,700 mg/kg (rat) |
| Dermal | LD50 | 1,100 mg/kg (rat) |
| Inhalative | LC50/4 h | 20 mg/l (rat) |

· **Primary irritant effect:**
· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
· **Serious eye damage/irritation**
Causes serious eye irritation.
· **Respiratory or skin sensitisation**
Based on available data, the classification criteria are not met.
· **CMR effects (carcinogenity, 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**
May cause drowsiness or dizziness.
· **STOT-repeated exposure**
Based on available data, the classification criteria are not met.
· **Aspiration hazard**
May be fatal if swallowed and enters airways.

## SECTION 12: Ecological information

· **12.1 Toxicity**

| · **Aquatic toxicity:** | |
|---|---|
| **7440-66-6 zinc powder - zinc dust (stabilized)** | |
| EC50 (dynamic) | 0.9 mg/kg (daphnia) (US EPA 821-R-02-012) |

· **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.
· **Ecotoxical effects:**
· **Remark:** Toxic for fish
· **Additional ecological information:**
· **General notes:**
Water hazard class 2 (German Regulation) : 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.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms

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· **12.5 Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **12.6 Other adverse effects** No further relevant information available.

## 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.

| · **European waste catalogue** | |
|---|---|
| 08 01 11* | waste paint and varnish containing organic solvents or other hazardous substances |
| 15 01 04 | metallic packaging |

· **Uncleaned packaging:**
· **Recommendation:** Disposal must be made according to official regulations.

## SECTION 14: Transport information

· **14.1 UN-Number**
· **ADR, IMDG, IATA** UN1950

· **14.2 UN proper shipping name**
· **ADR** UN1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS
· **IMDG** AEROSOLS (zinc powder - zinc dust (stabilized), Solvent naphtha (petroleum), light arom.), MARINE POLLUTANT
· **IATA** AEROSOLS, flammable

· **14.3 Transport hazard class(es)**

· **ADR**

· **Class** 2 5F Gases.
· **Label** 2.1

· **IMDG**

· **Class** 2.1

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| | |
|---|---|
| · **Label** | 2.1 |
| · **IATA** | |
|  | |
| · **Class** | 2.1 |
| · **Label** | 2.1 |
| · **14.4 Packing group** | |
| · **ADR, IMDG, IATA** | Void |
| · **14.5 Environmental hazards:** | Product contains environmentally hazardous substances: zinc powder - zinc dust (stabilized) |
| · **Marine pollutant:** | Yes<br>Symbol (fish and tree) |
| · **Special marking (ADR):** | Symbol (fish and tree) |
| · **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: Category A. For AEROSOLS with a capacity above 1 litre: 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. |
| · **Transport/Additional information:** | |
| · **ADR** | |
| · **Transport category** | 2 |
| · **Tunnel restriction code** | D |
| · **IMDG** | |
| · **Limited quantities (LQ)** | 1L |

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

* 

## SECTION 15: Regulatory information

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

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.
· **Seveso category**
P3a FLAMMABLE AEROSOLS
E2 Hazardous to the Aquatic Environment
· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· **National regulations:**

| Class | Share in % |
|---|---|
| I | <1 |
| NK | 50-100 |

**NEW ZEALAND:**
Class 3.1A Extremely Flammable Liquid
Class 2.1.2A Aerosol
Class 9.1C Aquatic Toxicity
Class 6.4A Eye Irritation
Class 6.1E Inhalation
Class 6.1E Aspiration

HSR002515 Aerosols (Flammable)

· **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.
H261 In contact with water releases flammable gases.
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.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.

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*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.*

· ***Classification according to Regulation (EC) No 1272/2008***
*The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.*

· ***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)*
*VOC: Volatile Organic Compounds (USA, EU)*
*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 1: Aerosols – Category 1*
*Press. Gas (Liq.): Gases under pressure – Liquefied gas*
*Flam. Liq. 2: Flammable liquids – Category 2*
*Flam. Liq. 3: Flammable liquids – Category 3*
*Water-react. 2: Substances and mixtures which in contact with water emit flammable gases – Category 2*
*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*
*Carc. 2: Carcinogenicity – Category 2*
*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*
*STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2*
*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.***