**1.1 Product identifier** 

according to Regulation (EC) No. 1907/2006



## ULTRASTAR FX-1604 Silver

| Version | Revision Date: | SDS Number: | Print Date: 05.04.2024          |
|---------|----------------|-------------|---------------------------------|
| 5.2     | 03.04.2024     | 10200002449 | Date of first issue: 20.02.2014 |

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

| :    | ULTRASTAR FX-1604 Silver  |
|------|---|
| :    | 052297QQ0   |
| he s | substance or mixture and uses advised against                                 |
| :    | Colorant; Printing ink related material; Printing ink, Colouring agents, dyes |
|      | :<br>he s   |

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

| Company  | : ECKART GmbH<br>Guentersthal 4<br>91235 Hartenstein |
|--|--|
| Telephone  | : +499152770   |
| Telefax  | : +499152777008                                      |
| E-mail address of person responsible for the SDS | : msds.eckart@altana.com                             |

#### 1.4 Emergency telephone number

NCEC: +44 1235 239670 (Europe) Call and response in your language is possible. Contract no.: ECKART29003-NCEC.

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

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

Flammable liquids, Category 2 Eye irritation, Category 2 Specific target organ toxicity - single exposure, Category 3, Central nervous system H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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according to Regulation (EC) No. 1907/2006



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|----------------|------------------------------|---|---|---|
| Haz            | zard pictograms              | : |   |   |
| Sig            | nal word                     | : | Danger  |   |
| Haz            | zard statements              | : | H225<br>H319<br>H336                                | Highly flammable liquid and vapour.<br>Causes serious eye irritation.<br>May cause drowsiness or dizziness.   |
|                | pplemental Hazard<br>tements | : | EUH066  | Repeated exposure may cause skin dryness or cracking.   |
| Pre            | cautionary statements        | : | <b>Prevention:</b><br>P210<br>P233<br>P261<br>P280  | Keep away from heat, hot surfaces, sparks,<br>open flames and other ignition sources. No<br>smoking.<br>Keep container tightly closed.<br>Avoid breathing mist or vapours.<br>Wear protective gloves/ protective clothing/<br>eye protection/ face protection/ hearing<br>protection. |
|                |                              |   | <b>Response:</b><br>P303 + P361 + P3<br>P370 + P378 | 53 IF ON SKIN (or hair): Take off<br>immediately all contaminated clothing.<br>Rinse skin with water.<br>In case of fire: Use dry sand, dry chemical<br>or alcohol-resistant foam to extinguish.  |

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

1-methoxy-2-propanol ethyl acetate acetone propan-2-ol

### 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

#### Components

| Componente    |                     |                     |               |
|---------------|---------------------|---------------------|---------------|
| Chemical name | CAS-No.             | ClassificationREGUL | Concentration |
|               | EC-No.              | ATION (EC) No       | (% w/w)       |
|               | Index-No.           | 1272/2008           |               |
|               | Registration number |                     |               |
| ethanol       | 64-17-5             | Flam. Liq. 2; H225  | >= 25 - < 50  |

according to Regulation (EC) No. 1907/2006



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| sion   | Revision Date:<br>03.04.2024 | SDS Number:<br>102000002449                             | Print Date: 05.04.2024<br>Date of first issue: 20.02.20  | 14          |
|--------|------------------------------|---|--|-------------|
|        |                              | 200-578-6<br>603-002-00-5                               | Eye Irrit. 2; H319   |             |
| 1-met  | thoxy-2-propanol             | 107-98-2<br>203-539-1<br>603-064-00-3<br>01-2119457435  | Flam. Liq. 3; H226<br>STOT SE 3; H336<br>(Central nervous<br>system)                                 | >= 25 - < 3 |
| ethyl  | acetate                      | 141-78-6<br>205-500-4<br>607-022-00-5                   | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>STOT SE 3; H336<br>(Central nervous<br>system)<br>EUH066 | >= 10 - < 2 |
| alumi  | inium powder (stabilised)    | 7429-90-5<br>231-072-3<br>013-002-00-1<br>01-2119529243 | -45  | >= 1 - < 1  |
| aceto  | one                          | 67-64-1<br>200-662-2<br>606-001-00-8<br>01-2119471330   | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>STOT SE 3; H336<br>(Central nervous                      | >= 1 - < 1  |
| propa  | an-2-ol                      | 67-63-0<br>200-661-7<br>603-117-00-0<br>01-2119457558   | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>STOT SE 3; H336<br>(Central nervous<br>-25 system)       | >= 1 - < 1  |
| cellul | ose nitrate                  | 9004-70-0<br>603-037-00-6                               | Expl. 1.1; H201  | >= 1 - < 1  |

For explanation of abbreviations see section 16.

### **SECTION 4: First aid measures**

| 4.1 Description of first aid measures |   |  |  |  |
|---------------------------------------|---|--|--|--|
| General advice                        | : | Move the victim to fresh air.  |  |  |
|                                       |   | Move out of dangerous area.<br>Show this safety data sheet to the doctor in attendance.                        |  |  |
| If inhaled                            | : | Consult a physician after significant exposure.<br>If unconscious, place in recovery position and seek medical |  |  |

according to Regulation (EC) No. 1907/2006



## **ULTRASTAR FX-1604 Silver**

| Version<br>5.2 | Revision Date:<br>03.04.2024 | SDS Num<br>102000002 |              | Print Date: 05.04.2024<br>Date of first issue: 20.02.2014  |
|----------------|------------------------------|----------------------|--------------|--|
|                |                              | advice               |              |  |
| In cas         | e of skin contact            | lf on s              | kin, rinse w | ately with soap and plenty of water.<br>ell with water.<br>ove clothes.                                      |
| In cas         | e of eye contact             | : Immec              | iately flush | n eye(s) with plenty of water.   |
|                |                              | Remov                | e contact    | n eye(s) with plenty of water.<br>lenses.<br>pen while rinsing.  |
| lf swal        | lowed                        | Do no<br>Never       | give anythi  | tract clear.<br>or alcoholic beverages.<br>ing by mouth to an unconscious person.<br>sist, call a physician. |
| 4.2 Most ir    | nportant symptoms a          | nd effects,          | both acute   | e and delayed  |

#### Risks : Causes serious eye irritation. May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking.

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

This information is not available.

### **SECTION 5: Firefighting measures**

| 5.1 Extinguishing media                       |     |   |
|---|-----|---|
| Suitable extinguishing media                  | :   | Dry sand<br>ABC powder<br>Foam  |
| Unsuitable extinguishing media                | :   | High volume water jet<br>Carbon dioxide (CO2)   |
| 5.2 Special hazards arising from              | the | substance or mixture  |
| Specific hazards during<br>firefighting       | :   | Do not allow run-off from fire fighting to enter drains or water courses.   |
| 5.3 Advice for firefighters                   |     |   |
| Special protective equipment for firefighters | :   | Wear self-contained breathing apparatus for firefighting if necessary.  |
| Further information                           | :   | Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |

according to Regulation (EC) No. 1907/2006



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|---------|----------------|--------------|---|
| 5.2     | 03.04.2024     | 102000002449 | Date of first issue: 20.02.2014                                 |
|         |                |              | sons in case of fire, cans should be stored losed containments. |

### **SECTION 6: Accidental release measures**

|   | <ul> <li>e equipment and emergency procedures</li> <li>Evacuate personnel to safe areas.</li> <li>Use personal protective equipment.</li> <li>Ensure adequate ventilation.</li> <li>Remove all sources of ignition.</li> <li>Evacuate personnel to safe areas.</li> <li>Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.</li> </ul> |
|---|--|
| 6.2 Environmental precautions<br>General advice : | The product should not be allowed to enter drains, water<br>courses or the soil.<br>Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.   |

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

|                         | <b>U</b> 1   |
|-------------------------|--|
| Methods for cleaning up | : Use mechanical handling equipment.<br>Soak up with inert absorbent material (e.g. sand, silica gel,<br>acid binder, universal binder, sawdust).  |
|                         | Contain spillage, and then collect with non-combustible<br>absorbent material, (e.g. sand, earth, diatomaceous earth,<br>vermiculite) and place in container for disposal according to<br>local / national regulations (see section 13).<br>Do not flush with water. |

respective authorities.

If the product contaminates rivers and lakes or drains inform

#### 6.4 Reference to other sections

For personal protection see section 8.

### **SECTION 7: Handling and storage**

| 7.1 Precautions for safe handling |   |
|-----------------------------------|---|
| Advice on safe handling :         | Avoid formation of aerosol.<br>Do not breathe vapours/dust.<br>Avoid exposure - obtain special instructions before use.<br>Avoid contact with skin and eyes.<br>For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the<br>application area. |

according to Regulation (EC) No. 1907/2006



## ULTRASTAR FX-1604 Silver

| Version<br>5.2 | Revision Date:<br>03.04.2024           | SDS Nu<br>1020000  |   | Print Date: 05.04.2024<br>Date of first issue: 20.02.2014  |
|----------------|--|--|---|--|
|                | e on protection against<br>d explosion | Prov<br>Oper<br>Disp<br>regu<br>: Do n<br>Take<br>(whic<br>explo | ide sufficient<br>n drum carefu<br>ose of rinse v<br>lations.<br>ot spray on a<br>necessary a<br>ch might caus<br>osion-proof e | ry measures against static discharges.<br>air exchange and/or exhaust in work rooms.<br>Illy as content may be under pressure.<br>vater in accordance with local and national<br>naked flame or any incandescent material.<br>ction to avoid static electricity discharge<br>se ignition of organic vapours). Use only<br>quipment. Keep away from open flames, hot<br>rces of ignition. |
| Hygie          | ne measures                            |  |   | ot eat or drink. When using do not smoke.<br>re breaks and at the end of workday.  |
| 7.2 Condit     | ions for safe storage,                 | including  | g any incomp  | patibilities   |
|                | rements for storage<br>and containers  | with<br>mea<br>expl<br>cont<br>away                              | water liberate<br>sures to prev<br>osion-proof e<br>ainers tightly  | iners and apparatuses is essential. Reaction<br>es extremely flammable gas (hydrogen) Take<br>ent the build up of electrostatic charge. Use<br>quipment. Store in original container. Keep<br>closed in a cool, well-ventilated place. Keep<br>es of ignition - No smoking. Keep container<br>n use.   |
|                |  | vent<br>care<br>Obs<br>mate                                      | ilated place. (<br>fully resealed<br>erve label pre   | p container tightly closed in a dry and well-<br>Containers which are opened must be<br>and kept upright to prevent leakage.<br>ecautions. Electrical installations / working<br>mply with the technological safety  |
|                | er information on<br>ge conditions     | : Prot   | ect from hum  | dity and water.  |
| Advic          | e on common storage                    | Do r<br>Neve<br>stora<br>Keep                                    | er allow produ<br>age.<br>5 away from 0   | acids.<br>ther with oxidizing and self-igniting products.<br>uct to get in contact with water during<br>oxidizing agents, strongly alkaline and<br>erials in order to avoid exothermic reactions.  |
|                | er information on<br>ge stability      | : No d   | lecompositio  | n if stored and applied as directed.   |
| 7.3 Specifi    | ic end use(s)                          |  |   |  |

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

### **Occupational Exposure Limits**

| Components | CAS-No. | Value type (Form | Control parameters | Basis |
|------------|---------|------------------|--------------------|-------|
|            |         | of exposure)     |                    |       |

according to Regulation (EC) No. 1907/2006



|                   | Revision Da<br>03.04.2024 |  |   | rint Date: 05.04.2024<br>ate of first issue: 20.02.   | 2014   |  |  |
|-------------------|---------------------------|--|---|---|--|--|--|
| ethanc            | bl                        | 64-17-5  | TWA   | 1,000 ppm<br>1,920 mg/m3  | GB EH40  |  |  |
|                   |                           |  |   | ecific short-term expos<br>xposure limit should be  |  |  |  |
| 1-met             | noxy-2-                   | 107-98-2   | STEL  | 150 ppm   | 2000/39/EC   |  |  |
| propa             | nol                       |  |   | 568 mg/m3   |  |  |  |
|                   |                           | skin, Indicati   |   | possibility of significar   | it uptake through th   |  |  |
|                   |                           |  | TWA   | 100 ppm<br>375 mg/m3  | 2000/39/EC   |  |  |
|                   |                           | Further infor skin, Indicati   |   | possibility of significar   | it uptake through th   |  |  |
|                   |                           | Skill, indicati  | TWA   | 100 ppm<br>375 mg/m3  | GB EH40  |  |  |
|                   |                           |  |   | rbed through the skin. 7  |  |  |  |
|                   |                           |  | are those for which th<br>emic toxicity.  | here are concerns that c  | lermal absorption  |  |  |
|                   |                           |  | STEL  | 150 ppm<br>560 mg/m3  | GB EH40  |  |  |
|                   |                           | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption wi lead to systemic toxicity. |   |   |  |  |  |
| ethyl a           | ethyl acetate             | 141-78-6   | TWA   | 200 ppm   | GB EH40  |  |  |
|                   |                           |  | STEL  | 734 mg/m3<br>400 ppm<br>1,468 mg/m3   | GB EH40  |  |  |
|                   |                           |  | STEL  | 400 ppm<br>1,468 mg/m3  | 2017/164/E   |  |  |
|                   |                           | Further infor  | mation: Indicative  |   |  |  |  |
|                   |                           |  | TWA   | 200 ppm<br>734 mg/m3  | 2017/164/E   |  |  |
|                   | · · ·                     |  | mation: Indicative  | 40 4 0  |  |  |  |
| alumir<br>(stabil | ium powder<br>ised)       | 7429-90-5  | TWA (Inhalable)   | 10 mg/m3  | GB EH40  |  |  |
| (                 |                           |  | TWA (Respirable fraction)   | 4 mg/m3   | GB EH40  |  |  |
|                   |                           |  | TWA (inhalable<br>dust)   | 10 mg/m3  | GB EH40  |  |  |
|                   |                           | inhalable du<br>when sampl<br>MDHS14/4 (<br>respirable, th<br>substance h<br>concentratio<br>inhalable du<br>any dust will<br>levels. Some<br>must comply                  | st are those fractions<br>ing is undertaken in a<br>General methods for s<br>horacic and inhalable<br>azardous to health ind<br>n in air equal to or gro<br>st or 4 mg.m-3 8-hou<br>be subject to COSHI<br>e dusts have been as<br>y with the appropriate | oses of these limits, res<br>of airborne dust which<br>accordance with the mer<br>sampling and gravimetr<br>aerosols., The COSHH<br>cludes dust of any kind<br>eater than 10 mg.m-3 8<br>r TWA of respirable dus<br>H if people are exposed<br>signed specific WELs a<br>limits., Most industrial<br>The behaviour, depos | will be collected<br>thods described in<br>ic analysis or<br>I definition of a<br>when present at a<br>B-hour TWA of<br>st. This means that<br>d to dust above the<br>and exposure to the<br>dusts contain |  |  |

according to Regulation (EC) No. 1907/2006



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| sion   | Revision Da<br>03.04.2024 |   | OS Number:<br>2000002449  | Print Date: 05.04.202<br>Date of first issue: 20   |   |
|--------|---------------------------|---|---|--|---|
|        |                           | distinguishe<br>and 'respira'<br>material tha<br>available for<br>to the fracti<br>definitions a<br>contain cor<br>should be o<br>a figure three<br>Further infor<br>inhalable du<br>when samp<br>MDHS14/4<br>respirable,<br>substance<br>concentrationi<br>inhalable du<br>any dust wi<br>levels. Som<br>must comp<br>particles of<br>particular p<br>response the<br>distinguished<br>and 'respiration<br>material that<br>available for<br>to the fraction<br>definitions a<br>contain cor | es two size fracti<br>able'., Inhalable of<br>at enters the nos<br>or deposition in the<br>on that penetrate<br>and explanatory<br>nponents that has<br>complied with., We<br>e times the long<br>TWA (Respind<br>dust)<br>ormation: For the<br>ust are those fra-<br>bling is undertake<br>General method<br>thoracic and inha<br>hazardous to hea<br>on in air equal to<br>ust or 4 mg.m-3<br>Il be subject to 0<br>ne dusts have be<br>ly with the appro-<br>a wide range of<br>article after entry<br>nat it elicits, depo-<br>es two size fracti<br>able'., Inhalable of<br>at enters the nos<br>or deposition in the<br>on that penetrate<br>and explanatory<br>nponents that has | end on the nature and siz<br>ons for limit-setting purper<br>dust approximates to the<br>e and mouth during breat<br>he respiratory tract. Resp<br>es to the gas exchange re-<br>material are given in MDI<br>we their own assigned W<br>/here no specific short-te-<br>g-term exposure limit sho<br>rable 4 mg/m3<br>purposes of these limits<br>ctions of airborne dust when<br>in accordance with the<br>s for sampling and gravina<br>alable aerosols., The COS<br>alth includes dust of any lo<br>or greater than 10 mg.m<br>8-hour TWA of respirable<br>COSHH if people are expo-<br>ten assigned specific WE<br>priate limits., Most indust<br>sizes. The behaviour, de<br>v into the human respirato<br>en assigned specific WE<br>priate limits., Most indust<br>sizes. The behaviour, de<br>v into the human respirato<br>to ns for limit-setting purper<br>dust approximates to the<br>e and mouth during breat<br>he respiratory tract. Resp<br>es to the gas exchange re-<br>material are given in MDI<br>we their own assigned W<br>/here no specific short-te | oses termed 'inhalable'<br>fraction of airborne<br>thing and is therefore<br>irable dust approximates<br>egion of the lung. Fuller<br>HS14/4., Where dusts<br>'EL, all the relevant limits<br>erm exposure limit is listed<br>uld be used.<br>GB EH40<br>, respirable dust and<br>hich will be collected<br>e methods described in<br>metric analysis or<br>SHH definition of a<br>kind when present at a<br>h-3 8-hour TWA of<br>e dust. This means that<br>osed to dust above these<br>trial dusts contain<br>eposition and fate of any<br>ory system, and the body<br>e of the particle. HSE<br>oses termed 'inhalable'<br>fraction of airborne<br>thing and is therefore<br>irable dust approximates<br>egion of the lung. Fuller<br>HS14/4., Where dusts<br>'EL, all the relevant limits |
| acetor | ne                        | 67-64-1   | TWA   | g-term exposure limit sho<br>500 ppm<br>1,210 mg/m3  | 2000/39/EC  |
|        |                           | Further info  | ormation: Indicat   |  |   |
|        |                           |   | TWA   | 500 ppm<br>1,210 mg/m3   | GB EH40   |
|        |                           |   | STEL  | 1,500 ppm<br>3,620 mg/m3   | GB EH40   |
| propa  | n-2-ol                    | 67-63-0   | TWA   | 400 ppm<br>999 mg/m3   | GB EH40   |
|        |                           |   | STEL  | 500 ppm<br>1,250 mg/m3   | GB EH40   |

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

| Substance name | End Use | Exposure routes | Potential health effects | Value     |
|----------------|---------|-----------------|--------------------------|-----------|
| ethanol        | Workers | Inhalation      | Long-term systemic       | 950 mg/m3 |

according to Regulation (EC) No. 1907/2006



| sion              | Revision Date:<br>03.04.2024 | SDS Nu<br>1020000 |            | rint Date: 05.04.2024<br>ate of first issue: 20.02.2014 |            |
|-------------------|------------------------------|-------------------|------------|---|------------|
|                   |                              | I                 | 1          | effects   |            |
|                   |                              | Workers           | Inhalation | Long-term local<br>effects                              | 1900 mg/m  |
|                   |                              | Workers           | Dermal     | Long-term systemic<br>effects                           | 343 mg/kg  |
|                   |                              | Consumers         | Inhalation | Long-term systemic<br>effects                           | 114 mg/m3  |
|                   |                              | Consumers         | Dermal     | Long-term systemic effects                              | 206 mg/kg  |
|                   |                              | Consumers         | Oral       | Long-term systemic<br>effects                           | 87 mg/kg   |
| 1-metl            | hoxy-2-propanol              | Workers           | Inhalation | Long-term systemic effects                              | 369 mg/m3  |
|                   |                              | Workers           | Inhalation | Acute local effects                                     | 553.5 mg/n |
|                   |                              | Workers           | Dermal     | Long-term systemic<br>effects                           | 50.6 mg/kg |
|                   |                              | Consumers         | Inhalation | Long-term systemic effects                              | 43.9 mg/m  |
|                   |                              | Consumers         | Dermal     | Long-term systemic<br>effects                           | 18.1 mg/kg |
|                   |                              | Consumers         | Oral       | Long-term systemic<br>effects                           | 3.3 mg/kg  |
| ethyl a           | acetate                      | Workers           | Inhalation | Long-term systemic<br>effects                           | 734 mg/m3  |
|                   |                              | Workers           | Inhalation | Long-term local<br>effects                              | 734 mg/m3  |
|                   |                              | Workers           | Inhalation | Acute systemic<br>effects                               | 1468 mg/m  |
|                   |                              | Workers           | Inhalation | Acute local effects                                     | 1468 mg/m  |
|                   |                              | Workers           | Dermal     | Long-term systemic<br>effects                           | 63 mg/kg   |
|                   |                              | Workers           | Dermal     | Long-term local effects                                 | 63 mg/kg   |
|                   |                              | Consumers         | Inhalation | Long-term systemic<br>effects                           | 367 mg/m3  |
|                   |                              | Consumers         | Inhalation | Long-term local<br>effects                              | 367 mg/m3  |
|                   |                              | Consumers         | Inhalation | Acute systemic<br>effects                               | 734 mg/m3  |
|                   |                              | Consumers         | Inhalation | Acute local effects                                     | 734 mg/m3  |
|                   |                              | Consumers         | Dermal     | Long-term systemic<br>effects                           | 37 mg/kg   |
|                   |                              | Consumers         | Oral       | Long-term systemic<br>effects                           | 4.5 mg/kg  |
| alumir<br>(stabil | nium powder<br>lised)        | Workers           | Inhalation | Long-term systemic<br>effects                           | 3.72 mg/m3 |
|                   |                              | Workers           | Inhalation | Long-term local effects                                 | 3.72 mg/m3 |
|                   |                              | Consumers         | Oral       | Long-term systemic effects                              | 3.95 mg/kg |
| acetor            | ne                           | Workers           | Inhalation | Long-term systemic                                      | 1210 mg/m  |

according to Regulation (EC) No. 1907/2006



## ULTRASTAR FX-1604 Silver

| Version Revision Date:<br>5.2 03.04.2024 |         | SDS Number:<br>10200002449 |            | Print Date: 05.04.2024<br>Date of first issue: 20.02.2014 |            |  |
|--|---------|----------------------------|------------|---|------------|--|
|  |         |                            |            | effects   |            |  |
| -  |         | Workers                    | Inhalation | Acute local effects                                       | 2420 mg/m3 |  |
|  |         | Workers                    | Inhalation | Acute systemic<br>effects                                 | 1210 mg/m3 |  |
|  |         | Workers                    | Dermal     | Long-term systemic<br>effects                             | 186 mg/kg  |  |
|  |         | Consumers                  | Inhalation | Long-term systemic<br>effects                             | 200 mg/m3  |  |
|  |         | Consumers                  | Dermal     | Long-term systemic<br>effects                             | 62 mg/kg   |  |
|  |         | Consumers                  | Oral       | Long-term systemic<br>effects                             | 62 mg/kg   |  |
| propa                                    | an-2-ol | Workers                    | Inhalation | Long-term systemic<br>effects                             | 500 mg/m3  |  |
|  |         | Workers                    | Dermal     | Long-term systemic<br>effects                             | 888 mg/kg  |  |
|  |         | Consumers                  | Inhalation | Long-term systemic<br>effects                             | 89 mg/m3   |  |
|  |         | Consumers                  | Dermal     | Long-term systemic<br>effects                             | 319 mg/kg  |  |
|  |         | Consumers                  | Oral       | Long-term systemic<br>effects                             | 26 mg/kg   |  |

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

| Substance name                | Environmental Compartment  | Value       |
|-------------------------------|----------------------------|-------------|
| ethanol                       | Fresh water                | 0.96 mg/l   |
|                               | Marine water               | 0.79 mg/l   |
|                               | Intermittent water release | 2.75 mg/l   |
|                               | STP                        | 580 mg/l    |
|                               | Fresh water sediment       | 3.6 mg/kg   |
|                               | Marine sediment            | 2.9 mg/kg   |
|                               | Soil                       | 0.63 mg/kg  |
|                               | Secondary Poisoning        | 380 mg/kg   |
| 1-methoxy-2-propanol          | Fresh water                | 10 mg/l     |
|                               | Marine water               | 1 mg/l      |
|                               | STP                        | 100 mg/l    |
|                               | Fresh water sediment       | 41.6 mg/kg  |
|                               | Marine sediment            | 4.17 mg/kg  |
|                               | Soil                       | 2.47 mg/kg  |
|                               | periodical release         | 100 mg/l    |
| ethyl acetate                 | Fresh water                | 0.24 mg/l   |
|                               | Marine water               | 0.024 mg/l  |
|                               | STP                        | 650 mg/l    |
|                               | Fresh water sediment       | 1.15 mg/kg  |
|                               | Marine sediment            | 0.115 mg/kg |
|                               | Soil                       | 0.148 mg/kg |
|                               | periodical release         | 1.65 mg/l   |
|                               | Secondary Poisoning        | 200 mg/kg   |
| aluminium powder (stabilised) | Fresh water                | 0.0749 mg/l |
|                               | clarification plant        | 20 mg/l     |

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|----------------|------------------------------|-----------------------------|---|------------|
| aceto          | ne                           | Fresh water                 |   | 10.6 mg/l  |
|                |                              | Marine water                |   | 1.06 mg/l  |
|                |                              | Fresh water s               | sediment  | 30.4 mg/kg |
|                |                              | Marine sedim                | ient  | 3.04 mg/kg |
|                |                              | STP                         |   | 100 mg/l   |
|                |                              | Soil                        |   | 29.5 mg/kg |
|                |                              | periodical rel              | ease  | 21 mg/l    |
| propa          | an-2-ol                      | Fresh water                 |   | 140.9 mg/l |
|                |                              | Marine water                |   | 140.9 mg/l |
|                |                              | Fresh water s               | sediment  | 552 mg/kg  |
|                |                              | Marine sedim                | ient  | 552 mg/kg  |
|                |                              | STP                         |   | 2251 mg/l  |
|                |                              | Soil                        |   | 28 mg/kg   |

#### 8.2 Exposure controls

| Personal protective equipme | ent |  |
|-----------------------------|-----|--|
| Eye/face protection         | :   | Goggles<br>Wear face-shield and protective suit for abnormal processing<br>problems.   |
| Hand protection<br>Material | :   | Solvent-resistant gloves (butyl-rubber)  |
| Remarks                     | :   | Take note of the information given by the producer<br>concerning permeability and break through times, and of<br>special workplace conditions (mechanical strain, duration of<br>contact). The exact break through time can be obtained from<br>the protective glove producer and this has to be observed.<br>Please observe the instructions regarding permeability and<br>breakthrough time which are provided by the supplier of the<br>gloves. Also take into consideration the specific local<br>conditions under which the product is used, such as the<br>danger of cuts, abrasion, and the contact time.<br>Recommended preventive skin protection Skin should be<br>washed after contact. The suitability for a specific workplace<br>should be discussed with the producers of the protective<br>gloves. |
| Skin and body protection    | :   | Choose body protection according to the amount and   |
| Respiratory protection      | :   | concentration of the dangerous substance at the work place.<br>Use suitable breathing protection if workplace concentration<br>requires.   |

### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

| Form   | : liquid |  |
|--------|----------|--|
| Colour | : silver |  |

according to Regulation (EC) No. 1907/2006



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|----------------|--|-----------|--------------------------------|---|
| Odo            | ur   | :         | characteristic                 |   |
| Odo            | ur Threshold   | :         | No data available              | )   |
| Melti          | ing point/range  | :         | Not applicable                 |   |
| Boili          | ng point/boiling range                                   | :         | 76 °C                          |   |
| Flam           | nmability  | :         | No data available              |   |
|                | er explosion limit / Upper<br>mability limit             | :         | No data available              | 3   |
|                | er explosion limit / Lower<br>mability limit             | :         | No data available              |   |
| Flas           | h point  | :         | -4 °C                          |   |
| Auto           | -ignition temperature                                    | :         | No data available              | )   |
| Deco           | omposition temperature                                   | :         | No data available              | )   |
| pН             |  | :         | substance/mixtur               | re is non-soluble (in water)                              |
| Visc           | osity, kinematic   | :         | No data available              | )   |
| Wate           | bility(ies)<br>er solubility<br>bility in other solvents | :         | insoluble<br>No data available | 9   |
|                | tion coefficient: n-                                     | :         | No data available              | )   |
|                | nol/water<br>our pressure                                | :         | No data available              | )   |
|                | or Pressure for Componen<br>hanol                        | nts:<br>: | 59 hPa (20 °C)                 |   |
| 1-             | methoxy-2-propanol                                       | :         | 11.3 hPa (20 °C                | )   |
| et             | hyl acetate  | :         | 98.4 hPa (20 °C                | )   |
| ac             | etone  | :         | 240 hPa (20 °C)                |   |
| pr             | opan-2-ol  | :         | 44 hPa (20 °C)                 |   |
| Rela           | tive density   | :         | No data available              | )   |
| Dens           | sity   | :         | 0.9 - 1.0 g/cm3                |   |
| Rela           | tive vapour density                                      | :         | No data available              |   |

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|---------------------------|---|----------------------------|---|
| Pa                        | le characteristics<br>article Size Distribution | : No data availa           | ble   |
|                           | <b>information</b><br>ata available             |                            |   |
| SECTIO                    | N 10: Stability and re                          | activity                   |   |
| <b>10.1 Reac</b><br>No de | <b>tivity</b><br>ecomposition if stored a       | nd applied as directe      | d.  |
|                           | nical stability<br>ecomposition if stored a     | nd applied as directe      | d.  |
|                           | ibility of hazardous re<br>dous reactions       |                            | cids and alkalis may release hydrogen.                    |
|                           |   | Stable under re            | ecommended storage conditions.                            |
|                           |   | Vapours may f              | orm explosive mixture with air.                           |
| 10.4 Cond                 | litions to avoid                                |                            |   |
| Cond                      | itions to avoid                                 | : Do not allow ev          | vaporation to dryness.                                    |
|                           |   | Heat, flames a             | nd sparks.  |
| 10.5 Incor                | npatible materials                              |                            |   |
| Mater                     | ials to avoid                                   | : Acids<br>Bases           |   |

Oxidizing agents

#### 10.6 Hazardous decomposition products

This information is not available.

### **SECTION 11: Toxicological information**

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

## Acute toxicity

Not classified based on available information.

#### Components:

#### ethanol:

Acute oral toxicity

: LD50 (Rat, male and female): 10,470 mg/kg Method: OECD Test Guideline 401

according to Regulation (EC) No. 1907/2006



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|-------------|---------|------------------------------|------|--|---|
|             | Acute i | nhalation toxicity           | :    | LC50 (Rat, male a<br>Exposure time: 4<br>Test atmosphere:<br>Method: OECD Te | vapour  |
|             | 1-meth  | oxy-2-propanol :             |      |  |   |
|             |         | oral toxicity                | :    | LD50 (Rat): 4,016  | mg/kg   |
|             | Acute i | nhalation toxicity           | :    | LC50 (Rat): > 25.8<br>Exposure time: 4<br>Test atmosphere:                   | h   |
|             | Acute o | dermal toxicity              | :    | LD50 (Rabbit): > 2   | 2,000 mg/kg   |
|             | ethyl a | cetate:                      |      |  |   |
|             | -       | oral toxicity                | :    | (Rat): 5,620 mg/k  | g   |
|             | Acute i | nhalation toxicity           | :    | LC50 (Rat): 56 mg<br>Exposure time: 4<br>Test atmosphere:                    | h   |
|             | Acute o | lermal toxicity              | :    | LD50 (Rabbit): > 1   | 18,000 mg/kg  |
|             | alumin  | ium powder (stabilise        | ed): |  |   |
|             |         | nhalation toxicity           | :    | LC50 (Rat): > 5 m<br>Exposure time: 4<br>Test atmosphere:                    | ĥ   |
|             | aceton  | e:                           |      |  |   |
|             | Acute o | oral toxicity                | :    | LD50 (Rabbit): 4,7   | 700 - 5,800 mg/kg   |
|             |         |                              |      | (Mouse): 3,000 m   | ng/kg   |
|             |         |                              |      | (Rat): 9,800 mg/k  | g   |
|             | Acute i | nhalation toxicity           | :    | LC50 (Rat): 76 mg<br>Exposure time: 4<br>Test atmosphere:                    | ĥ   |
|             | Acute o | dermal toxicity              | :    | LD50 (Rabbit): > 2   | 2,000 mg/kg   |
|             | propan  | -2-ol:                       |      |  |   |
|             | • •     | oral toxicity                | :    | LD50 (Rat): > 2,00   | 00 mg/kg  |
|             | Acute o | dermal toxicity              | :    | LD50 (Rabbit): > 2   | 2,000 mg/kg   |
|             |         |                              |      |  |   |

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| rsion        | Revision Date:<br>03.04.2024                 | SDS Number:<br>102000002449 | Print Date: 05.04.2024<br>Date of first issue: 20.02.2014  |
|--------------|--|-----------------------------|--|
|              | corrosion/irritation                         | auga akin dhunaan a         | rorocking  |
|              | ated exposure may c                          | ause skin uryness (         | or cracking.   |
| <u>Produ</u> |  |                             |  |
| Rema         | rks  | : May cause                 | skin irritation in susceptible persons.  |
| <u>Com</u> p | oonents:                                     |                             |  |
| ethan        | ol:  |                             |  |
| Resul        | t  | : No skin irrit             | ation  |
| Rema         | rks  | : Based on a                | vailable data, the classification criteria are not m   |
| aceto        | ne:  |                             |  |
| Rema         | rks  |                             | r prolonged contact with the mixture may cause<br>natural fat from the skin resulting in desiccation |
|              | us eye damage/eye<br>es serious eye irritati |                             |  |
| Produ        | uct:   |                             |  |
| Rema         | rks  | : Eye irritatio             | n  |
| <u>Com</u> p | oonents:                                     |                             |  |
| ethan        | ol:  |                             |  |
| Resul        | t  | : Eye irritatio             | n  |
| Rema         | rks  | : Based on a                | vailable data, the classification criteria are not m   |
| ethyl        | acetate:                                     |                             |  |
| Resul        | t  | : Eye irritatio             | n  |
| aceto        | ne:  |                             |  |
| Resul        | t  | : Eye irritatio             | n  |
| propa        | ın-2-ol:                                     |                             |  |
| Resul        | t  | : Eye irritatio             | n  |
| Respi        | ratory or skin sens                          | itisation                   |  |
|              | <b>sensitisation</b><br>assified based on av | ailable information         |  |
|              | ratory sensitisation                         |                             |  |

Not classified based on available information.

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|-----------------------|--|--|--|
|                       | <b>cell mutagenicity</b><br>assified based on av | ailable information.                           |  |
|                       | n <b>ogenicity</b><br>assified based on av       | ailable information.                           |  |
| -                     | oductive toxicity<br>assified based on av        | ailable information.                           |  |
|                       | - single exposure<br>ause drowsiness or          | dizziness.                                     |  |
| <u>Comp</u>           | oonents:   |  |  |
| -                     | acetate:<br>ssment                               | : May cause d                                  | Irowsiness or dizziness.   |
| <b>aceto</b><br>Asses | <b>ne:</b><br>ssment                             | : May cause d                                  | rowsiness or dizziness.  |
|                       | n <b>-2-ol:</b><br>ssment                        | : May cause d                                  | lrowsiness or dizziness.   |
|                       | - repeated exposur<br>assified based on av       |  |  |
| -                     | <b>ation toxicity</b><br>assified based on av    | ailable information.                           |  |
| 11.2 Infor            | mation on other haz                              | ards   |  |
| Furth                 | er information                                   |  |  |
| <u>Prodı</u><br>Rema  |  | tiredness, na<br>Concentratio<br>narcotic effe | of overexposure may be headache, dizziness,<br>nusea and vomiting.<br>ns substantially above the TLV value may cause<br>cts.<br>y degrease the skin. |

## 12.1 Toxicity

#### **Components:**

#### ethyl acetate:

Toxicity to daphnia and other : (Daphnia (water flea)): 717 mg/l aquatic invertebrates

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|-------------------------|---|------|---|---|--|--|--|
|                         | one:<br>city to daphnia and other<br>atic invertebrates   | :    | (Daphnia magna  | (Water flea)): 21,600 mg/l  |  |  |  |
|                         | sistence and degradabi  | lity |   |   |  |  |  |
|                         | accumulative potential<br>lata available  |      |   |   |  |  |  |
|                         | <b>ility in soil</b><br>lata available  |      |   |   |  |  |  |
| 12.5 Res                | ults of PBT and vPvB a  | sse  | ssment  |   |  |  |  |
| <u>Proc</u><br>Asse     | <b>luct:</b><br>essment   | :    | to be either persis                                       | nixture contains no components considered<br>stent, bioaccumulative and toxic (PBT), or<br>nd very bioaccumulative (vPvB) at levels of        |  |  |  |
| No d                    | <ul> <li>12.6 Endocrine disrupting properties</li> <li>No data available</li> <li>12.7 Other adverse effects</li> </ul> |      |   |   |  |  |  |
| Proc                    |   |      |   |   |  |  |  |
| Addi                    | itional ecological<br>mation  | :    | No data available   |   |  |  |  |
| SECTIO                  | N 13: Disposal consi  | der  | ations  |   |  |  |  |
| Euro                    | pean Waste Catalogue  | :    | 08 03 12 - waste  | ink containing dangerous substances   |  |  |  |
| <b>13.1 Was</b><br>Prod | te treatment methods  | :    | Do not contamina<br>chemical or used<br>Send to a license | f waste into sewer.<br>ite ponds, waterways or ditches with<br>container.<br>d waste management company.<br>h local and national regulations. |  |  |  |
| Cont                    | aminated packaging  | :    |   | used product.   |  |  |  |

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|--|---|----|------------------------------|---|
| SECTION 1                                  | 4: Transport infor  | na | tion                         |   |
| 14.1 UN num                                | ber or ID number  |    |                              |   |
| ADR  |   | :  | UN 1210                      |   |
| IMDG                                       |   | :  | UN 1210                      |   |
| ΙΑΤΑ                                       |   | :  | UN 1210                      |   |
| 14.2 UN prop                               | per shipping name   |    |                              |   |
| ADR  |   | :  | PRINTING INK                 |   |
| IMDG                                       |   | :  | PRINTING INK                 |   |
| ΙΑΤΑ                                       |   | :  | Printing ink                 |   |
| 14.3 Transpo                               | ort hazard class(es)  |    |                              |   |
|  |   |    | Class                        | Subsidiary risks  |
| ADR  |   | :  | 3                            |   |
| IMDG                                       |   | :  | 3                            |   |
| ΙΑΤΑ                                       |   | :  | 3                            |   |
| 14.4 Packing                               | ı group   |    |                              |   |
| Hazard I<br>Labels                         | group<br>ation Code<br>dentification Number<br>estriction code                | :  | II<br>F1<br>33<br>3<br>(D/E) |   |
| <b>IMDG</b><br>Packing<br>Labels<br>EmS Co |   | :  | ll<br>3<br>F-E, S-D          |   |
| <b>IATA (C</b> a<br>Packing<br>aircraft)   | <b>argo)</b><br>instruction (cargo  | :  | 364                          |   |
|  | instruction (LQ)<br>group   | :  | Y341<br>II<br>3              |   |
| Packing<br>(passeng                        | <b>assenger)</b><br>instruction<br>ger aircraft)<br>instruction (LQ)<br>group | :  | 353<br>Y341<br>II<br>3       |   |
| 14.5 Environ                               | mental hazards  |    |                              |   |

ADR

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|--------------------------|------------------------------|-----------------------------|---|
|                          | nmentally hazardous          | : no                        |   |
| IMDG<br>Marine pollutant |                              | : no                        |   |

#### 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 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

### **SECTION 15: Regulatory information**

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

Relevant EU provisions transposed through retained EU law

| REACH - Restrictions on the manufacture, placing on<br>the market and use of certain dangerous substances,<br>mixtures and articles (Annex XVII)                             | :   | Conditions of restriction for the<br>following entries should be<br>considered:<br>Number on list 3<br>ethanol (Number on list 3)<br>1-methoxy-2-propanol (Number on<br>list 40, 3)<br>ethyl acetate (Number on list 3)<br>aluminium powder (stabilised)<br>(Number on list 40)<br>acetone (Number on list 3)<br>propan-2-ol (Number on list 3) |
|--|-----|---|
| UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation  | :   | Not applicable  |
| The Persistent Organic Pollutants Regulations (retained<br>Regulation (EU) 2019/1021 as amended for Great<br>Britain)  | :   | Not applicable  |
| Regulation (EC) No 1005/2009 on substances that deplete the ozone layer  |     | Not applicable  |
| Regulation (EU) 2019/1148 on the marketing and use of explosives precursors  | :   | acetone   |
| UK REACH List of substances subject to authorisation (Annex XIV)   | :   | Not applicable  |
| Regulation (EU) 2019/1148 on the marketing and use of explosives precursors  |     |   |
| This product is regulated by Regulation (EU) 2019/1148: suspicious transactions, and significant disappearances a should be reported to the relevant national contact point. | and | acetone (ANNEX II)<br>thefts  |

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#### 15.2 Chemical safety assessment

No data available

#### **SECTION 16: Other information**

| Full text of H-Statements      |    |  |
|--------------------------------|----|--|
| H201                           | :  | Explosive; mass explosion hazard.                            |
| H225                           | ÷  | Highly flammable liquid and vapour.                          |
| H226                           | :  | Flammable liquid and vapour.                                 |
| H228                           | :  | Flammable solid.   |
| H319                           | :  | Causes serious eye irritation.                               |
| H336                           | :  | May cause drowsiness or dizziness.                           |
| EUH066                         | :  | Repeated exposure may cause skin dryness or cracking.        |
| Full text of other abbreviatio | ns |  |
| Expl.                          | :  | Explosives   |
| Eye Irrit.                     | :  | Eye irritation   |
| Flam. Liq.                     | :  | Flammable liquids  |
| Flam. Sol.                     | :  | Flammable solids   |
| STOT SE                        | :  | Specific target organ toxicity - single exposure             |
| 2000/39/EC                     | :  | Europe. Commission Directive 2000/39/EC establishing a first |
|                                |    | list of indicative occupational exposure limit values        |
| 2017/164/EU                    | :  | Europe. Commission Directive 2017/164/EU establishing a      |
|                                |    | fourth list of indicative occupational exposure limit values |
| GB EH40                        | :  | UK. EH40 WEL - Workplace Exposure Limits                     |
| 2000/39/EC / TWA               | :  | Limit Value - eight hours                                    |
| 2000/39/EC / STEL              | :  | Short term exposure limit                                    |
| 2017/164/EU / STEL             | :  | Short term exposure limit                                    |
| 2017/164/EU / TWA              | :  | Limit Value - eight hours                                    |
| 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 - Agreement concerning the International Carriage of Dangerous Goods by Road; AllC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally 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

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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; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

| Classification of the mixture: |      | Classification procedure:           |
|--------------------------------|------|-------------------------------------|
| Flam. Liq. 2                   | H225 | Based on product data or assessment |
| Eye Irrit. 2                   | H319 | Calculation method                  |
| STOT SE 3                      | H336 | Calculation method                  |

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