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

Printing date 21.04.2023 Version number 6 (replaces version 5) Revision: 12.05.2022

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

· **1.1 Product identifier**

· **Trade name:** **COLORS RAL - Spray 400ml**

· **Article number:**
101294, 101295, 101296, 101297, 101299, 101300, 101301, 101302, 101303, 101304, 101305, 348815, 348822, 348846, 348853, 348860, 404801, 404818, 404825, 407375, 407382, 407399, 407405, 408693, 408709, 408716, 408723, 408730, 408747, 408754, 408761, 408778, 408785, 408792, 408808, 408815, 408822, 408839, 408846, 408853, 408860, 408877, 408884, 409102, 409119, 409584, 481741, 487071, 487088, 522901, 524172, 319211alt

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.

· **Sector of Use**
SU21 Consumer uses: Private households / general public / consumers
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

· **Product category** PC9a Coatings and paints, thinners, paint removers

· **Process category**
PROC7 Industrial spraying
PROC11 Non industrial spraying

· **Application of the substance / the mixture** Lacquer

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

· **Manufacturer/Supplier:**
European Aerosols GmbH*
Kurt Vogelsang Strasse 6
D-74855 Haßmersheim
Tel.: +49 (0) 6266 750
e-mail: sds-de@european-aerosols.com

*Formerly known as Motip Dupli GmbH

· **Further information obtainable from:** Department Product Safety

· **1.4 Emergency telephone number:**
Tel.:+49 6266-75-310
Fax +49 6266-75-362
(Mo - Th 08:00 am - 04:00 pm, Fr 08:00 am - 00:30 pm)

UK:
Public emergeny phone no: 111
Only for healthcare professionals: 0344 892 0111

Ireland:
Poison center if childs have been poisened: 01 809 2166 (8:00 am - 10:00 pm, 7 days)
Only for healthcare professionals: 01 809 2566 (24 h / 7 days)

Tox Info Suisse 145 (24-h-emergency number)

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## SECTION 2: Hazards identification

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

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

flame

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

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| | | |
|---|---|---|
| Eye Irrit. 2 | H319 | Causes serious eye irritation. |
| STOT SE 3 | H336 | May cause drowsiness or dizziness. |

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

GHS02 GHS07

· **Signal word** Danger

· **Hazard-determining components of labelling:**
acetone
n-butyl acetate
2-methoxy-1-methylethyl acetate
· **Hazard statements**
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
· **Precautionary statements**
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
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.
P260 Do not breathe spray.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents / container in accordance with regional regulations.
· **Additional information:**
EUH066 Repeated exposure may cause skin dryness or cracking.
Buildup of explosive mixtures possible without sufficient ventilation.
EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
· **2.3 Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

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## SECTION 3: Composition/information on ingredients

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

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· **Dangerous components:**

| | | |
|---|---|---|
| CAS: 67-64-1<br>EINECS: 200-662-2<br>Index number: 606-001-00-8<br>Reg.nr.: 01-2119471330-49 | acetone<br>Flam. Liq. 2, H225<br>Eye Irrit. 2, H319; STOT SE 3, H336<br>EUH066 | 25-<50% |
| CAS: 115-10-6<br>EINECS: 204-065-8<br>Index number: 603-019-00-8<br>Reg.nr.: 01-2119472128-37 | dimethyl ether<br>Flam. Gas 1A, H220<br>Press. Gas (Comp.), H280 | 12.5-<20% |
| CAS: 74-98-6<br>EINECS: 200-827-9<br>Index number: 601-003-00-5<br>Reg.nr.: 01-2119486944-21 | propane<br>Flam. Gas 1A, H220<br>Press. Gas (Comp.), H280 | 12.5-<20% |
| CAS: 123-86-4<br>EINECS: 204-658-1<br>Index number: 607-025-00-1<br>Reg.nr.: 01-2119485493-29 | n-butyl acetate<br>Flam. Liq. 3, H226<br>STOT SE 3, H336<br>EUH066 | 10-<12.5% |
| CAS: 106-97-8<br>EINECS: 203-448-7<br>Index number: 601-004-00-0<br>Reg.nr.: 01-2119474691-32 | butane (containing < 0,1 % butadiene (203-450-8))<br>Flam. Gas 1A, H220<br>Press. Gas (Comp.), H280 | 5-<10% |
| CAS: 108-65-6<br>EINECS: 203-603-9<br>Index number: 607-195-00-7<br>Reg.nr.: 01-2119475791-29 | 2-methoxy-1-methylethyl acetate<br>Flam. Liq. 3, H226<br>STOT SE 3, H336 | 5-<10% |
| CAS: 75-28-5<br>EINECS: 200-857-2<br>Index number: 601-004-00-0<br>Reg.nr.: 01-2119485395-27 | isobutane (containing < 0,1 % butadiene (203-450-8))<br>Flam. Gas 1A, H220<br>Press. Gas (Comp.), H280 | 2.5-<5% |
| CAS: 9004-70-0 | cellulose nitrate<br>Expl. 1.1, H201 | 2.5-<5% |
| EC number: 905-588-0<br>Index number: 601-022-00-9<br>Reg.nr.: 01-2119488216-32 | xylene<br>Flam. Liq. 3, H226<br>STOT RE 2, H373; Asp. Tox. 1, H304<br>Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 | <2.5% |
| CAS: 64-17-5<br>EINECS: 200-578-6<br>Index number: 603-002-00-5<br>Reg.nr.: 01-2119457610-43 | ethanol<br>Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>Specific concentration limit: Eye Irrit. 2; H319: C ≥ 50 % | <2.5% |
| CAS: 13463-67-7<br>EINECS: 236-675-5<br>Index number: 022-006-00-2<br>Reg.nr.: 01-2119489379-17 | titanium dioxide<br>Carc. 2, H351 | <2.5% |

· **Additional information:**
xylene: Contains ethylbenzene CAS 100-41-4
CAS 9004-70-0: GB CLP Note T
For the wording of the listed hazard phrases refer to section 16.

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## 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.

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· **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.
· **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.

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## SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· **Suitable extinguishing agents:**
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.
· **5.2 Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
· **5.3 Advice for firefighters** -
· **Protective equipment:** Mouth respiratory protective device.

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## SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
Keep away from ignition sources.
· **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
· **6.3 Methods and material for containment and cleaning up:**
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.

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## SECTION 7: Handling and storage

· **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
· **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Keep respiratory protective device available.

· **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 container tightly sealed.
· **Storage class:** 2 B
· **7.3 Specific end use(s)** No further relevant information available.



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## SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

| · **Ingredients with limit values that require monitoring at the workplace:** | |
|---|---|
| **67-64-1 acetone** | |
| WEL | Short-term value: 3620 mg/m³, 1500 ppm<br>Long-term value: 1210 mg/m³, 500 ppm |
| **115-10-6 dimethyl ether** | |
| WEL | Short-term value: 958 mg/m³, 500 ppm<br>Long-term value: 766 mg/m³, 400 ppm |
| **123-86-4 n-butyl acetate** | |
| WEL | Short-term value: 966 mg/m³, 200 ppm<br>Long-term value: 724 mg/m³, 150 ppm |
| **106-97-8 butane (containing < 0,1 % butadiene (203-450-8))** | |
| WEL | Short-term value: 1810 mg/m³, 750 ppm<br>Long-term value: 1450 mg/m³, 600 ppm<br>Carc (if more than 0.1% of buta-1.3-diene) |
| **108-65-6 2-methoxy-1-methylethyl acetate** | |
| WEL | Short-term value: 548 mg/m³, 100 ppm<br>Long-term value: 274 mg/m³, 50 ppm<br>Sk |
| **xylene** | |
| WEL | Short-term value: 441 mg/m³, 100 ppm<br>Long-term value: 220 mg/m³, 50 ppm<br>Sk; BMGV |
| **64-17-5 ethanol** | |
| WEL | Long-term value: 1920 mg/m³, 1000 ppm |
| **13463-67-7 titanium dioxide** | |
| WEL | Long-term value: 10* 4** mg/m³<br>*total inhalable **respirable |

| · **DNELs** | | |
|---|---|---|
| **67-64-1 acetone** | | |
| Oral | DNEL | 62 mg/kg /per day (Consumer, longterm systemic) |
| Dermal | DNEL | 62 mg/kg /per day (Consumer, longterm systemic) |
| | DNEL | 186 mg/kg /per day (Worker, longterm systemic) |
| Inhalative | DNEL | 2420 mg/m3 (Worker, acute local) |
| | DNEL | 1210 mg/m3 (Worker, longterm systemic) |
| | DNEL | 200 mg/m3 (Consumer, longterm systemic) |
| | DNEL | 60 mg/m3 |
| **123-86-4 n-butyl acetate** | | |
| Oral | DNEL | 2 mg/kg /per day (Consumer, longterm systemic) |
| | DNEL | 2 mg/kg /per day (Consumer, acute systemic) |
| Dermal | DNEL | 11 mg/kg /per day (Worker, longterm systemic) |
| | DNEL | 11 mg/kg /per day (Worker, acute systemic) |
| | DNEL | 6 mg/kg /per day (Consumer, longterm systemic) |
| | DNEL | 6 mg/kg /per day (Consumer, acute systemic) |
| Inhalative | DNEL | 300 mg/m3 (Worker, longterm systemic) |
| | DNEL | 600 mg/m3 (Worker, acute systemic) |
| | DNEL | 300 mg/m3 (Worker, longterm local) |

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| | | |
|---|---|---|
| | DNEL | 600 mg/m3 (Worker, acute local) |
| | DNEL | 35.7 mg/m3 (Consumer, longterm systemic) |
| | DNEL | 300 mg/m3 (Consumer; acute systemic) |
| | DNEL | 35.7 mg/m3 (Consumer, longterm local) |
| **108-65-6 2-methoxy-1-methylethyl acetate** | | |
| Dermal | DNEL | 796 mg/kg /per day (Worker, longterm systemic) |
| | DNEL | 320 mg/kg /per day (Consumer, longterm systemic) |
| Inhalative | DNEL | 275 mg/m3 (Worker, longterm systemic) |
| | DNEL | 33 mg/m3 (Consumer, longterm systemic) |
| **xylene** | | |
| Oral | DNEL | 1.6 mg/kg /per day (Consumer, longterm systemic) |
| Dermal | DNEL | 180 mg/kg /per day (Worker, longterm systemic) |
| Inhalative | DNEL | 211 mg/m3 (Worker, longterm systemic) |
| | DNEL | 221 mg/m3 (Worker, longterm local) |
| | DNEL | 442 mg/m3 (Worker, acute systemic) |
| | DNEL | 289 mg/m3 (Worker, acute local) |
| | DNEL | 14.8 mg/m3 (Consumer, longterm systemic) |
| | DNEL | 260 mg/m3 (Consumer; acute systemic) |
| | DNEL | 65.3 mg/m3 (Consumer, longterm local) |
| | DNEL | 260 mg/m3 (Consumer, acute local) |
| **64-17-5 ethanol** | | |
| Oral | DNEL | 87 mg/kg /per day (Consumer, longterm systemic) |
| Dermal | DNEL | 343 mg/kg /per day (Worker, longterm systemic) |
| | DNEL | 206 mg/kg /per day (Consumer, longterm systemic) |
| Inhalative | DNEL | 950 mg/m3 (Worker, longterm systemic) |
| | DNEL | 1900 mg/m3 (Worker, acute local) |
| | DNEL | 114 mg/m3 (Consumer, longterm systemic) |
| | DNEL | 950 mg/m3 (Consumer, acute local) |

| | |
|---|---|
| · **PNECs** | |
| **67-64-1 acetone** | |
| PNEC | 10.6 mg/l (Freshwater) |
| PNEC | 1.06 mg/l (Seawater) |
| PNEC | 21 mg/l (Sporadic release) |
| PNEC | 100 mg/l (Sewage treatment plant) |
| PNEC | 30.4 mg/kg (Freshwater sediment) |
| PNEC | 3.04 mg/kg (Seawater sediment) |
| PNEC | 29.5 mg/kg (Soil) |
| **123-86-4 n-butyl acetate** | |
| PNEC | 0.18 mg/l (Freshwater) |
| PNEC | 0.018 mg/l (Seawater) |
| PNEC | 0.36 mg/l (Sporadic release) |
| PNEC | 35.6 mg/l (Sewage treatment plant) |
| PNEC | 0.981 mg/kg (Freshwater sediment) |
| PNEC | 0.0981 mg/kg (Seawater sediment) |
| PNEC | 0.0903 mg/kg (Soil) |

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| **108-65-6 2-methoxy-1-methylethyl acetate** | |
|---|---|
| PNEC | 0.635 mg/l (Freshwater) |
| PNEC | 0.064 mg/l (Seawater) |
| PNEC | 100 mg/l (Sewage treatment plant) |
| PNEC | 3.29 mg/kg (Freshwater sediment) |
| PNEC | 0.329 mg/kg (Seawater sediment) |
| PNEC | 0.29 mg/kg (Soil) |
| **64-17-5 ethanol** | |
| PNEC | 0.96 mg/l (Freshwater) |
| PNEC | 0.79 mg/l (Seawater) |
| PNEC | 2.75 mg/l (Sporadic release) |
| PNEC | 580 mg/l (Sewage treatment plant) |
| PNEC | 3.6 mg/kg (Freshwater sediment) |
| PNEC | 2.9 mg/kg (Seawater sediment) |
| PNEC | 0.63 mg/kg (Soil) |

| · **Ingredients with biological limit values:** | |
|---|---|
| **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**
· **Appropriate engineering controls** No further data; see item 7.
· **Individual protection measures, such as 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.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
Avoid contact with the eyes.
· **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.

Filter A2/P3
· **Hand protection**

Protective gloves

· **Material of gloves**
Butyl rubber, BR
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.
· **Penetration time of glove material**
Butyl rubber gloves with a thickness of 0.4 mm are resistant to:
Acetone: 480 min
Butyl acetate: 60 min
Ethyl acetate: 170 min
Xylene: 42 min

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*Butyl rubber gloves with a thickness of 0.4 mm are solvent resistant for 42- 480 minutes. As protective measure, we recommend that users and responsible persons for work safety assume solvent resistance length of 42 minutes. Considering the data in section 3 of this SDS, one can assume longer resistance length in particular cases.*

· **Eye/face protection**

*Tightly sealed goggles*

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## SECTION 9: Physical and chemical properties

| | |
|---|---|
| · **9.1 Information on basic physical and chemical properties** | |
| · **General Information** | |
| · **Physical state** | Aerosol |
| · **Colour:** | According to product specification |
| · **Odour:** | Characteristic |
| · **Odour threshold:** | Not determined. |
| · **Melting point/freezing point:** | Undetermined. |
| · **Boiling point or initial boiling point and boiling range** | Not applicable, as aerosol. |
| · **Flammability** | Not applicable. |
| · **Lower and upper explosion limit** | |
| · **Lower:** | 1.2 Vol % (123-86-4 n-butyl acetate) |
| · **Upper:** | 26.2 Vol % (115-10-6 dimethyl ether) |
| · **Flash point:** | Not applicable, as aerosol. |
| · **Auto-ignition temperature:** | 240 °C (464 °F) |
| · **Decomposition temperature:** | Not determined. |
| · **pH** | Mixture is non-soluble (in water). |
| · **Viscosity:** | |
| · **Kinematic viscosity** | Not determined. |
| · **Dynamic:** | Not determined. |
| · **Solubility** | |
| · **water:** | Not miscible or difficult to mix. |
| · **Partition coefficient n-octanol/water (log value)** | Not determined. |
| · **Vapour pressure at 20 °C (68 °F):** | 13 hPa (9.8 mm Hg) (123-86-4 n-butyl acetate) |
| · **Density and/or relative density** | |
| · **Density at 20 °C (68 °F):** | 0.8 g/cm³ (6.7 lbs/gal) |
| · **Relative density** | Not determined. |
| · **Vapour density** | Not determined. |

| | |
|---|---|
| · **9.2 Other information** | |
| · **Appearance:** | |
| · **Form:** | Aerosol |
| · **Important information on protection of health and environment, and on safety.** | |
| · **Explosive properties:** | Not determined. |
| · **Solvent content:** | |
| · **Organic solvents:** | 89.7 % |
| · **VOC (EC)** | --- |
| | 717.3 g/l |
| · **VOC-EU%** | 89.66 % |
| · **Solids content:** | 7.5 % |
| · **Change in condition** | |
| · **Evaporation rate** | Not applicable. |

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| | |
|---|---|
| · **Information with regard to physical hazard classes** | |
| · **Explosives** | Void |
| · **Flammable gases** | Void |
| · **Aerosols** | Extremely flammable aerosol. Pressurised container: May burst if heated. |
| · **Oxidising gases** | Void |
| · **Gases under pressure** | Void |
| · **Flammable liquids** | Void |
| · **Flammable solids** | Void |
| · **Self-reactive substances and mixtures** | Void |
| · **Pyrophoric liquids** | Void |
| · **Pyrophoric solids** | Void |
| · **Self-heating substances and mixtures** | Void |
| · **Substances and mixtures, which emit flammable gases in contact with water** | Void |
| · **Oxidising liquids** | Void |
| · **Oxidising solids** | Void |
| · **Organic peroxides** | Void |
| · **Corrosive to metals** | Void |
| · **Desensitised explosives** | Void |

## 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:** No dangerous decomposition products known.

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## SECTION 11: Toxicological information

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

| · **LD/LC50 values relevant for classification:** | | |
|---|---|---|
| **67-64-1 acetone** | | |
| Oral | LD50 | 5800 mg/kg (rat) |
| Dermal | LD50 | >15800 mg/kg (rabbit) |
| Inhalative | LC50 / 4h | 76 mg/l (rat) |
| **123-86-4 n-butyl acetate** | | |
| Oral | LD50 | 10800 mg/kg (rat) (OECD 401) |
| Dermal | LD50 | >17600 mg/kg (rabbit) |
| Inhalative | LC50 / 4 h | >21 mg/m3 (rat) |
| **108-65-6 2-methoxy-1-methylethyl acetate** | | |
| Oral | LD50 | 8530 mg/kg (rat) |
| Dermal | LD50 | >5000 mg/kg (rabbit) |
| Inhalative | LC50 / 4 h | >10000 mg/m3 (rat) |
| **xylene** | | |
| Oral | LD50 | 3523 mg/kg (rat) |
| Dermal | LD50 | 2000 mg/kg (rabbit) |

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| | | |
|---|---|---|
| Inhalative | LC50 / 4 h | 29000 mg/m3 (rat) |
| **64-17-5 ethanol** | | |
| Oral | LD50 | 10470 mg/kg (rat) |
| Dermal | LD50 | >2000 mg/kg (rat) |
| Inhalative | LC50 / 4h | 120 mg/l (rat) |

· **Skin corrosion/irritation** No irritant effect.
· **Serious eye damage/irritation** Causes serious eye irritation.
· **Respiratory or skin sensitisation** No sensitising effects known.
· **STOT-single exposure** May cause drowsiness or dizziness.
· **11.2 Information on other hazards**

| |
|---|
| · **Endocrine disrupting properties** |
| None of the ingredients is listed. |

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## SECTION 12: Ecological information

· **12.1 Toxicity**

| | |
|---|---|
| · **Aquatic toxicity:** | |
| **67-64-1 acetone** | |
| LC50/96h | 8300 mg/l (fish) |
| EC50/96h | 7200 mg/l (algae) |
| LC50 / 48 h | 8450 mg/l (crustacean (water flea)) |
| **115-10-6 dimethyl ether** | |
| EC50 / 96 h | 155 mg/l (algae) |
| LC50 / 48 h | >4000 mg/l (daphnia magna) |
| LC50 / 96 h | >4000 mg/l (fish) |
| **108-65-6 2-methoxy-1-methylethyl acetate** | |
| EC50 / 48 h | >500 mg/l (daphnia magna) |
| LC50 / 96 h | 100-180 mg/l (oncorhynchus mykiss / Regenbogenforelle) |
| **xylene** | |
| EC50 / 48 h | 7.4 mg/l (daphnia magna) |
| LC50 / 96 h | 13.5 mg/l (fish) |
| **64-17-5 ethanol** | |
| LC50/96h | 13000 mg/l (oncorhynchus mykiss / Regenbogenforelle) |
| EC50 / 48 h | 12900 mg/l (algae) |
| LC50 / 48 h | 12340 mg/l (daphnia magna) |

· **12.2 Persistence and degradability** No further relevant information available.
· **12.3 Bioaccumulative potential** No further relevant information available.
· **12.4 Mobility in soil** No further relevant information available.
· **12.5 Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
· **12.7 Other adverse effects**
· **Additional ecological information:**
· **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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*Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.*

* 

## SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**
· **Recommendation**
*Must not be disposed together with household garbage. Do not allow product to reach sewage system.*

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

* 

## SECTION 14: Transport information

| | |
|---|---|
| · **14.1 UN number or ID number** | |
| · **ADR, IMDG, IATA** | UN1950 |
| · **14.2 UN proper shipping name** | |
| · **ADR** | 1950 AEROSOLS |
| · **IMDG** | AEROSOLS |
| · **IATA** | AEROSOLS, flammable |
| · **14.3 Transport hazard class(es)** | |
| · **ADR** | |
| | |
| · **Class** | 2 5F Gases. |
| · **Label** | 2.1 |
| · **IMDG, IATA** | |
| | |
| · **Class** | 2.1 Gases. |
| · **Label** | 2.1 |
| · **14.4 Packing group** | |
| · **ADR, IMDG, IATA** | not regulated |
| · **14.5 Environmental hazards:** | Not applicable. |
| · **14.6 Special precautions for user** | Warning: Gases. |
| · **Hazard identification number (Kemler code):** | - |
| · **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: |

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| | |
|---|---|
| · | 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 Maritime transport in bulk according to IMO instruments** | Not applicable. |
| · **Transport/Additional information:** | |
| · **ADR** | |
| · **Limited quantities (LQ)** | 1L |
| · **Excepted quantities (EQ)** | Code: E0<br>Not permitted as Excepted Quantity |
| · **Transport category** | 2 |
| · **Tunnel restriction code** | D |
| · **IMDG** | |
| · **Limited quantities (LQ)** | 1L |
| · **Excepted quantities (EQ)** | Code: E0<br>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**

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.
· **Seveso category** P3a FLAMMABLE AEROSOLS
· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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## 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**
H201 Explosive; mass explosion hazard.
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.
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.
EUH066 Repeated exposure may cause skin dryness or cracking.

· **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

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*ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)*
*IMDG: International Maritime Code for Dangerous Goods*
*IATA: International Air Transport Association*
*GHS: Globally Harmonised System of Classification and Labelling of Chemicals*
*EINECS: European Inventory of Existing Commercial Chemical Substances*
*ELINCS: European List of Notified Chemical Substances*
*CAS: Chemical Abstracts Service (division of the American Chemical Society)*
*VOC: Volatile Organic Compounds (USA, EU)*
*DNEL: Derived No-Effect Level (UK REACH)*
*PNEC: Predicted No-Effect Concentration (UK REACH)*
*LC50: Lethal concentration, 50 percent*
*LD50: Lethal dose, 50 percent*
*PBT: Persistent, Bioaccumulative and Toxic*
*vPvB: very Persistent and very Bioaccumulative*
*Expl. 1.1: Explosives – Division 1.1*
*Flam. Gas 1A: Flammable gases – Category 1A*
*Aerosol 1: Aerosols – Category 1*
*Press. Gas (Comp.): 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 Irrit. 2: Serious eye damage/eye irritation – Category 2*
*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*

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