

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

### · 1.1 Product identifier

· **Trade name:** Stainless steel spray E-COLL

· **Article number:** 4317784349123

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

#### · Sector of Use

SU21 Consumer uses: Private households / general public / consumers

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

· **Application of the substance / the mixture** Colour spray

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

#### · **Manufacturer/Supplier:**

E/D/E - Einkaufsbuero Deutscher Eisenhaendler GmbH

EDE Platz 1

D-42389 Wuppertal

Germany

Tel. +49 202 6096-0

e-mail: sdb@ede.de

· **Further information obtainable from:** Product safety department

· **1.4 Emergency telephone number:** Giftinformationszentrum Mainz – Tel.: +49 (6131) 19240

## SECTION 2: Hazards identification

### · 2.1 Classification of the substance or mixture

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



GHS02 flame

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



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

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

### · 2.2 Label elements

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

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

· **Hazard pictograms**



GHS02



GHS07

· **Signal word** Danger

· **Hazard statements**

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

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P251 Do not pierce or burn, even after use.

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- P211 Do not spray on an open flame or other ignition source.  
 P271 Use only outdoors or in a well-ventilated area.  
 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.

Contains N-(3-(trimethoxysilyl)propyl)ethylenediamine, nickel powder (particle diameter < 1 mm). 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: 74-98-6<br>EINECS: 200-827-9<br>Reg.nr.: 01-2119486944-21-xxxx       | propane<br>⚠ Flam. Gas 1, H220; Press. Gas C, H280   | 10-25%  |
| CAS: 106-97-8<br>EINECS: 203-448-7<br>Reg.nr.: 01-2119474691-32-xxxx      | butane<br>⚠ Flam. Gas 1, H220; Press. Gas C, H280  | 10-25%  |
| CAS: 75-28-5<br>EINECS: 200-857-2<br>Reg.nr.: 01-2119485395-27-xxxx       | isobutane<br>⚠ Flam. Gas 1, H220; Press. Gas C, H280   | 10-25%  |
| 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   | 10-25%  |
| CAS: 141-78-6<br>EINECS: 205-500-4<br>Reg.nr.: 01-2119475103-46-xxxx      | ethyl acetate<br>⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336   | 2.5-10% |
| CAS: 1330-20-7<br>EINECS: 215-535-7<br>Reg.nr.: 01-2119486136-34          | xylene<br>⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315  | 2.5-10% |
| CAS: 64742-95-6<br>EC number: 918-668-5<br>Reg.nr.: 01-2119455851-35-xxxx | Solvent naphtha (petroleum), light arom.<br>⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H335-H336 | 2.5-10% |
| CAS: 1314-13-2<br>EINECS: 215-222-5                                       | zinc oxide<br>⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410   | < 1%    |
| CAS: 78-78-4<br>EINECS: 201-142-8   | isopentane<br>⚠ Flam. Liq. 1, H224; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H336                                    | < 1%    |
| CAS: 7440-02-0<br>EINECS: 231-111-4                                       | nickel powder (particle diameter < 1 mm)<br>⚠ Carc. 2, H351; STOT RE 1, H372; ⚠ Skin Sens. 1, H317; Aquatic Chronic 3, H412              | < 1%    |

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|                                     |   | (Contd. of page 2) |
|-------------------------------------|---|--------------------|
| CAS: 1760-24-3<br>EINECS: 217-164-6 | N-(3-(trimethoxysilyl)propyl)ethylenediamine<br>---<br>Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 3, H412 | < 1%               |
| CAS: 91-20-3<br>EINECS: 202-049-5   | naphthalene<br>---<br>Carc. 2, H351; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302   | < 1%               |

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

## SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:**  
Personal protection for the First Aider.  
Immediately remove any clothing soiled by the product.
- **After inhalation:**  
Supply fresh air.  
Seek medical treatment in case of complaints.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

## SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture** Can form explosive gas-air mixtures.
- **5.3 Advice for firefighters**
- **Protective equipment:** Do not inhale explosion gases or combustion gases.
- **Additional information** Cool endangered receptacles with water spray.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:** 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**

Open and handle receptacle with care.  
Use only in well ventilated areas.

**· Information about fire - and explosion protection:**



Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Do not spray onto a naked flame or any incandescent material.

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.

**· Information about storage in one common storage facility: Store away from oxidising agents.**

**· Further information about storage conditions:**

Keep container tightly sealed.

Protect from heat and direct sunlight.

**· 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:**

**106-97-8 butane**

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

**67-64-1 acetone**

|     |  |
|-----|--|
| WEL | Short-term value: 3620 mg/m <sup>3</sup> , 1500 ppm<br>Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm |
|-----|--|

**141-78-6 ethyl acetate**

|     |   |
|-----|---|
| WEL | Short-term value: 400 ppm<br>Long-term value: 200 ppm |
|-----|---|

**1330-20-7 xylene**

|     |  |
|-----|--|
| WEL | Short-term value: 441 mg/m <sup>3</sup> , 100 ppm<br>Long-term value: 220 mg/m <sup>3</sup> , 50 ppm<br>Sk; BMGV |
|-----|--|

**· 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.**

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- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes.
- **Respiratory protection:**  
Short term filter device:  
Use suitable respiratory protective device in case of insufficient ventilation - filter AX.
- **Protection of hands:**



Protective gloves

- **Material of gloves**  
Butyl rubber, BR  
Recommended thickness of the material:  $\geq 0.4$  mm
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

## 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/Melting range: | Undetermined.               |
| Boiling point/Boiling range: | Not applicable, as aerosol. |
- **Flash point:** Not applicable, as aerosol.
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** 365 °C
- **Decomposition temperature:** Not determined.
- **Self-igniting:** Product is not selfigniting.
- **Danger of explosion:** Not determined.
- **Explosion limits:**

|        |            |
|--------|------------|
| Lower: | 0.7 Vol %  |
| Upper: | 13.0 Vol % |
- **Vapour pressure at 20 °C:** 4200 hPa

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|   |  |
|---|--|
| · <b>Density at 20 °C:</b>                        | 0.718 g/cm <sup>3</sup>                    |
| · <b>Relative density</b>                         | Not determined.                            |
| · <b>Vapour density</b>                           | Not determined.                            |
| · <b>Evaporation rate</b>                         | Not applicable.                            |
| · <b>Solubility in / Miscibility with water:</b>  | Not miscible or difficult to mix.          |
| · <b>Partition coefficient (n-octanol/water):</b> | Not determined.                            |
| · <b>Viscosity:</b>                               |  |
| <b>Dynamic:</b>                                   | Not determined.                            |
| <b>Kinematic:</b>                                 | Not determined.                            |
| <b>VOC (EC) %</b>                                 | 84.48 %                                    |
| <b>VOC (EC) g/l</b>                               | 577.0 g/l                                  |
| <b>VOCV (CH)</b>                                  | 84.48 %                                    |
| · <b>9.2 Other information</b>                    | 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:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**

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

**1330-20-7 xylene**

|        |      |                     |
|--------|------|---------------------|
| Oral   | LD50 | 4300 mg/kg (rat)    |
| Dermal | LD50 | 2000 mg/kg (rabbit) |

**64742-95-6 Solvent naphtha (petroleum), light arom.**

|        |      |                   |
|--------|------|-------------------|
| Oral   | LD50 | >6800 mg/kg (rat) |
| Dermal | LD50 | >3400 mg/kg (rab) |

**1314-13-2 zinc oxide**

|      |      |                    |
|------|------|--------------------|
| Oral | LD50 | > 5000 mg/kg (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 (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.

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

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **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.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **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:**  
Containers can be recycled if completely empty; if not, dispose product/containers as dangerous waste. Observe local regulations.
- **Recommendation**  
Completely emptied packagings can be given for recycling. (In accordance with local authority regulations, take to chemical/physical treatment plant.)

· **European waste catalogue**

16 05 04\* gases in pressure containers (including halons) containing dangerous substances

### SECTION 14: Transport information

- |   |                     |
|---|---------------------|
| · <b>14.1 UN-Number</b>   | UN1950              |
| · <b>ADR, IMDG, IATA</b>  | UN1950              |
| · <b>14.2 UN proper shipping name</b>   |                     |
| · <b>ADR</b>  | UN1950 AEROSOLS     |
| · <b>IMDG</b>   | AEROSOLS            |
| · <b>IATA</b>   | AEROSOLS, flammable |
| · <b>14.3 Transport hazard class(es)</b>  |                     |
| · <b>ADR</b>  |                     |
|  |                     |
| · <b>Class</b>  | 2 5F Gases.         |
| · <b>Label</b>  | 2.1                 |

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· **IMDG, IATA**



|   |                                 |
|---|---------------------------------|
| · <b>Class</b>  | 2.1                             |
| · <b>Label</b>  | 2.1                             |
| · <b>14.4 Packing group</b><br>· <b>ADR, IMDG, IATA</b>   | Void                            |
| · <b>14.5 Environmental hazards:</b><br>· <b>Marine pollutant:</b>  | No                              |
| · <b>14.6 Special precautions for user</b><br>· <b>Danger code (Kemler):</b><br>· <b>EMS Number:</b>                | Warning: Gases.<br>-<br>F-D,S-U |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>                                    | Not applicable.                 |
| · <b>Transport/Additional information:</b>  |                                 |
| · <b>ADR</b><br>· <b>Limited quantities (LQ)</b><br>· <b>Transport category</b><br>· <b>Tunnel restriction code</b> | 1L<br>3<br>E                    |
| · <b>UN "Model Regulation":</b>   | UN1950, AEROSOLS, 2.1           |

### SECTION 15: Regulatory information

· **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.  
 H224 Extremely flammable liquid and vapour.  
 H225 Highly flammable liquid and vapour.  
 H226 Flammable liquid and vapour.  
 H280 Contains gas under pressure; may explode if heated.  
 H302 Harmful if swallowed.  
 H304 May be fatal if swallowed and enters airways.  
 H312 Harmful in contact with skin.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 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.  
 H372 Causes damage to organs through prolonged or repeated exposure.  
 H400 Very toxic to aquatic life.  
 H410 Very toxic to aquatic life with long lasting effects.

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H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

· **Department issuing MSDS:** Product safety department

· **Contact:** Head of Product Safety Department

· **Abbreviations and acronyms:**

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)

VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)

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, Hazard Category 1

Flam. Aerosol 1: Flammable aerosols, Hazard Category 1

Press. Gas C: Gases under pressure: Compressed gas

Flam. Liq. 1: Flammable liquids, Hazard Category 1

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Carc. 2: Carcinogenicity, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3