

Printing date 06.01.2021 Version number 309 Revision: 06.01.2021

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

· 1.1 Product identifier 600012

· 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 Dyestuff/Colouring agent
- · 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

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

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

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



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### · Hazard-determining components of labelling:

acetone

ethyl acetate

Solvent naphtha (petroleum), light arom.

#### · Hazard statements

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

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

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:

EUH208 Contains 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 Mixtures

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

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· Dangerous components:		
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32-xxxx	butane, pure     Flam. Gas 1A, H220 Press. Gas (Comp.), H280	25-<50%
CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8 Reg.nr.: 01-2119471330-49-xxxx 01-2119498062-37-xxxx	acetone      Flam. Liq. 2, H225     Eye Irrit. 2, H319; STOT SE 3, H336 EUH066	10-<25%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21-xxxx	propane  Flam. Gas 1A, H220  Press. Gas (Comp.), H280	10-<25%
CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32-xxxx	xylene Flam. Liq. 3, H226 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	5-<10%
CAS: 141-78-6 EINECS: 205-500-4 Index number: 607-022-00-5 Reg.nr.: 01-2119475103-46-xxxx	ethyl acetate  Flam. Liq. 2, H225  Eye Irrit. 2, H319; STOT SE 3, H336  EUH066	5-<10%
CAS: 100-41-4 EINECS: 202-849-4 Index number: 601-023-00-4 Reg.nr.: 01-2119489370-35-xxxx	ethylbenzene  Flam. Liq. 2, H225  STOT RE 2, H373; Asp. Tox. 1, H304  Acute Tox. 4, H332  Aquatic Chronic 3, H412	1-<5%
CAS: 1314-13-2 EINECS: 215-222-5 Index number: 030-013-00-7 Reg.nr.: 01-2119463881-32	zinc oxide � Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<1%
CAS: 7440-02-0 EINECS: 231-111-4 Index number: 028-002-01-4	nickel powder (particle diameter < 1 mm) Carc. 2, H351; STOT RE 1, H372 Aquatic Acute 1, H400 Skin Sens. 1, H317 Aquatic Chronic 3, H412	<1%
CAS: 7440-47-3 EINECS: 231-157-5	chromium Aquatic Chronic 4, H413	1-<5%
CAS: 60580-61-2 EINECS: 262-309-9	zinc 5-nitroisophthalate Aquatic Chronic 3, H412	1-<5%
EC number: 918-668-5 Index number: 649-356-00-4 Reg.nr.: 01-2119455851-35-xxxx	Solvent naphtha (petroleum), light arom.  Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 TOTICS 3, H335-H336	1-<5%

• Additional information: 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

#### · 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:

CO2, 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.

Mouth respiratory protective device.

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.



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Ensure adequate ventilation

### · 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

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.

## **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

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

CAS: 67-64-1 acetone

IOELV Long-term value: 1210 mg/m³, 500 ppm

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CAS: 1330-20-7 xylene

IOELV Short-term value: 442 mg/m³, 100 ppm
Long-term value: 221 mg/m³, 50 ppm
Skin

CAS: 141-78-6 ethyl acetate

IOELV Short-term value: 1468 mg/m³, 400 ppm
Long-term value: 734 mg/m³, 200 ppm

CAS: 100-41-4 ethylbenzene

IOELV Short-term value: 884 mg/m³, 200 ppm
Long-term value: 442 mg/m³, 100 ppm
Skin

CAS: 7440-47-3 chromium

IOELV Long-term value: 2 mg/m³

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls

as Cr

- · Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as 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:

Not necessary if room is well-ventilated. Self-contained respiratory protective device.

### · Hand protection



Protective gloves

## · Material of gloves

Butyl rubber, BR

Recommended thickness of the material: ≥ 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/face protection



Tightly sealed goggles



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· Body protection: Protective work clothing

### **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: CharacteristicOdour threshold: Not determined.

Melting point/freezing point:
 Boiling point or initial boiling point and boiling

range Not applicable, as aerosol.

• Flammability Extremely flammable aerosol.

· Lower and upper explosion limit

• Lower: 1.1 Vol %
• Upper: 15 Vol %

Flash point: Not applicable, as aerosol.
 Auto-ignition temperature: Product is not selfigniting.

Decomposition temperature: Not determined.pH Not determined.

· Viscosity:

· Kinematic viscosity Not determined.

· Kinematic: 23 °C - 4 mm (ISO 2431)

- **Dynamic:** Not determined.

Solubility

• water: Not miscible or difficult to mix.

Partition coefficient n-octanol/water (log value)
 Vapour pressure at 20 °C:
 7,400 hPa

· Density and/or relative density

Density at 20 °C: 0.67 g/cm³
 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.

Ignition temperature: 400 °C

• Explosive properties: Not determined.

· Solvent separation test:

 ⋅ VOC (EC) %
 97.50 %

 ⋅ VOC (EC) g/l
 655.3 g/l

 ⋅ VOCV (CH)
 97.50 %

Change in conditionSoftening point/range

Oxidising properties
 Evaporation rate
 Not determined.
 Not applicable.

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· Information with regard to physical hazard

classes

Explosives VoidFlammable gases Void

· Aerosols

Extremely flammable aerosol. Pressurised container: May burst if heated.

<ul><li>Oxidising gases</li><li>Gases under pressure</li><li>Flammable liquids</li></ul>	Void Void Void
Flammable solids     Self-reactive substances and mixtures	Void Void
· Pyrophoric solids	Void Void
Self-heating substances and mixtures Substances and mixtures, which emit flammable	Void e
gases in contact with water Oxidising liquids	Void Void
Oxidising solids Organic peroxides	Void Void
<ul><li>Corrosive to metals</li><li>Desensitised explosives</li></ul>	Void 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.

## **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:		
CAS: 106-97-8 butane, pure		
Inhalative	LC50/4h	658 ppm (rat)
CAS: 67-64-1 acetone		
Oral	LD50	5,800 mg/kg (rat)

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Dermal	LD50	20,000 mg/kg (rabbit)	
Inhalative	LC50/4h	76 mg/m³ (rat)	
CAS: 74-9	CAS: 74-98-6 propane		
Inhalative	LC50/4h	>20 mg/m³ (rat)	
CAS: 1330	CAS: 1330-20-7 xylene		
Oral	LD50	4,300 mg/kg (rat)	
Dermal	LD50	2,000 mg/kg (rabbit)	
CAS: 141-	78-6 ethy	l acetate	
Oral	LD50	5,620 mg/kg (rabbit)	
Inhalative	LC50/4h	1,600 ppm (rat)	
CAS: 100-41-4 ethylbenzene			
Oral	LD50	3,500 mg/kg (rat)	
Dermal	LD50	17,800 mg/kg (rabbit)	
CAS: 1314	1-13-2 zin	c oxide	
Oral	LD50	>5,000 mg/kg (rat)	
Solvent naphtha (petroleum), light arom.			
Oral	LD50	>6,800 mg/kg (rat)	
Dermal	LD50	>3,400 mg/kg (rab)	
Inhalative	LC50/4h	>10.2 ppm (rat)	

## · Skin corrosion/irritation

Causes skin irritation.

## · Serious eye damage/irritation

Causes serious eye irritation.

- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure

May cause drowsiness or dizziness.

- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- · 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:		
CAS: 67-64-1 acetone		
LC50/48h	8,800 mg/l (Daphnia magna)	
NOEC	430 mg/l (algae)	
NOEC/16h	1,700 mg/l (Pseudomonas putida)	
NOEC/48h	4,740 mg/l (Pseudokirchneriella subcapitata)	
96h LC50	5,540 mg/l (Oncorhynchus mykiss)	

- · 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 For information on endocrine disrupting properties see section 11.
- · 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system.

## **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods:
- · European waste catalogue

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

## **SECTION 14: Transport information**

· 14.1 UN number or ID number

· ADR, IMDG, IATA UN1950

· 14.2 UN proper shipping name

· **ADR** UN1950 AEROSOLS

· IMDG AEROSOLS

· IATA AEROSOLS, flammable

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- · 14.3 Transport hazard class(es)
- · ADR



· Class 2 5F Gases.

· Label 2.1

· IMDG, IATA



ClassLabel2.1

· 14.4 Packing group

· ADR, IMDG, IATA Void

· 14.5 Environmental hazards:

· Marine pollutant: No

• 14.6 Special precautions for user Warning: Gases.

· Hazard identification number (Kemler code): -

• **EMS Number**: F-D,S-U

· 14.7 Maritime transport in bulk according to IMO

**instruments** Not applicable.

· Transport/Additional information:

· ADR

Limited quantities (LQ)
 Transport category
 Tunnel restriction code

· UN "Model Regulation": UN1950, AEROSOLS, 2.1

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

- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.
- · Directive 2012/18/EU
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 27

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#### · Exposure scenario(s)

Exposure scenario(s) of ingredients (if present) are available on request at: sdb@ede.de

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

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

## · Relevant phrases

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
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.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

### · Department issuing SDS: Product safety department

· Contact: Head of Product Safety Department · Date of previous version: 06.01.2021 · Version number of previous version: 308

## · Abbreviations and acronyms:

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

EUH066 Repeated exposure may cause skin dryness or cracking.

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 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



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Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4

· \* Data compared to the previous version altered.