

Printing date 09.03.2023

Version number 302 (replaces version 301)

Revision: 09.03.2023

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

- · 1.1 Product identifier 600338
- · Trade name: PRO marker spray E-COLL
- · Article number:

4317784565448, 4317784565455, 4317784565462, 4317784565479, 4317784565431, 4317784565493, 4317784565486

- · UFI: KNND-SUSA-TD6V-57YH
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Sector of Use

SU21 Consumer uses: Private households / general public / consumersSU22 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

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

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 labelling of an aspiration hazard (Asp.Tox.1 H304) is not required for aerosol dispensers and containers with a sealed spray device (Regulation (EC) 1272/2008, Annex 1,1.3.3). The product is classified and labelled according to the CLP regulation.

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· Hazard pictograms



· Signal word Danger

Hazard-determining components of labelling: ethyl acetate Kohlenwasserstoffe, C9-C11, n-Alkane, Isoalkane, Cycloalkane, < 2% Aromaten Naphtha (petroleum), hydrotreated light

· 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

· Fredautionally statements			
If medical advice is needed, have product container or label at hand.			
Keep out of reach of children.			
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.			
Do not spray on an open flame or other ignition source.			
Do not pierce or burn, even after use.			
Avoid breathing spray.			
Use only outdoors or in a well-ventilated area.			
FIN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.			
Dispose of contents/container in accordance with local/regional/national/international regulations.			

· Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

· 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.

· Dangerous components: CAS: 74-98-6 propane 10-<25%</td> EINECS: 200-827-9 Index number: 601-003-00-5 Flam. Gas 1A, H220 10-<25%</td> Index number: 01-2119486944-21-xxxx Press. Gas (Comp.), H280 Contd. on page 3)



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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	10-<25%
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	10-<25%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27-xxxx	isobutane Flam. Gas 1A, H220 Press. Gas (Comp.), H280	10-<25%
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29-xxxx	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226	2.5-10%
EC number: 919-857-5 Reg.nr.: 01-2119463258-33	Kohlenwasserstoffe, C9-C11, n-Alkane, Isoalkane, Cycloalkane, < 2% Aromaten Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 EUH066	2.5-10%
CAS: 64742-49-0 EC number: 927-241-2 Reg.nr.: 01-2119471843-32	Naphtha (petroleum), hydrotreated light Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 3, H412 EUH066	2.5-10%

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

SECTION 4: First aid measures

· 4.1 Description of first aid measures

• General information: Personal protection for the First Aider.

- · 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. Do not induce vomiting; call for medical help immediately.



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- **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 fire with alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- · Additional information Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation Keep away from ignition sources.
- · 6.2 Environmental precautions: No special measures required.
- 6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation.
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 6.4 Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

SECTION 7: Handling and storage

• 7.1 Precautions for safe handling

Keep receptacles tightly sealed. Ensure good ventilation/exhaustion at the workplace.

· Information about fire - and explosion protection:



Keep ignition sources away - Do not smoke.



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Protect from heat.

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:

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: None.
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredie	ents with limit values that require monitoring at the workplace:
CAS: 14	41-78-6 ethyl acetate
	Short-term value: 1468 mg/m³, 400 ppm Long-term value: 734 mg/m³, 200 ppm
CAS: 10	08-65-6 2-methoxy-1-methylethyl acetate
	Short-term value: 550 mg/m³, 100 ppm Long-term value: 275 mg/m³, 50 ppm Skin
·DNELs	
CAS: 64	1742-49-0 Naphtha (petroleum), hydrotreated light
Dermal	Long term value for employees 300 mg/kg bw/Tag (cosumer use)

• 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. Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.
- **Respiratory protection:** Not necessary if room is well-ventilated. Use suitable respiratory protective device in case of insufficient ventilation. Filter A/P2

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· Hand protection



Protective gloves

Material of gloves

Nitrile rubber, NBR 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 Recommendation: safety glasses with side protection shield
- Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

0.1 Information on basic physical and chamical	reportion
 9.1 Information on basic physical and chemical General Information 	bioperties
· Colour:	Different according to colouring
· Odour:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling	Shactermined.
range	Not applicable, as aerosol.
· Flammability	Not applicable, as acrosol.
· Lower and upper explosion limit	Not applicable.
· Lower:	1.5 Vol %
· Upper:	10.9 Vol %
· Flash point:	Not applicable, as aerosol.
· Auto-ignition temperature:	>200 °C
· 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)	Not determined.
· Vapour pressure at 20 °C:	4200 hPa
 Density and/or relative density 	
· Density at 20 °C:	0.64 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
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9.2 Other information

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Appearance: Form: Aerosol Important information on protection of health
Important information on protection of health
and environment, and on safety.
Ignition temperature: Product is not selfigniting.
• Explosive properties: Not determined.
Change in condition
· Drip point:
• Oxidising properties Not determined.
• Evaporation rate Not applicable.
Information with reverse to physical because
 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 Reacts with strong oxidising agents.
- · 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:

CAS: 74-9	8-6 propa	ane
Inhalative	LC50/4h	>20 mg/m ³ (rat)
CAS: 106-97-8 butane, pure		
Inhalative	LC50/4h	658 ppm (rat)
CAS: 141-	78-6 ethy	I acetate
Oral	LD50	5,620 mg/kg (rabbit)
Inhalative	LC50/4h	1,600 ppm (rat)
CAS: 108-	•65-6 2-m	ethoxy-1-methylethyl acetate
Oral	LD50	8,532 mg/kg (rat)
Inhalative	LC50/4h	35.7 ppm (rat)

· 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.
- · 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.

SECTION 12: Ecological information

· 12.1 Toxicity

Aquatic toxicity:

CAS: 75-28-5 isobutane

EC50 (48h) 69.43 mg/L (daphnia)

· 12.2 Persistence and degradability No further relevant information available.



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• **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 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:

Containers can be recycled if completely empty; if not, dispose product/containers as dangerous waste. Observe local regulations.

· European waste catalogue		
16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST	
16 05 00	gases in pressure containers and discarded chemicals	
16 05 04*	gases in pressure containers (including halons) containing hazardous substances	
HP3	Flammable	
HP4	Irritant - skin irritation and eye damage	
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity	

UN1950

SECTION 14: Transport information

· 14.1 UN number or ID number

- · ADR, IMDG, IATA
- · 14.2 UN proper shipping name
- · ADR
- ·IMDG
- · IATA

UN1950 AEROSOLS AEROSOLS AEROSOLS, flammable

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· 14.3 Transport hazard class(es)	
ADR	
· Class · Label	2 5F Gases. 2.1
· IMDG, IATA	
· Class · Label	2.1 Gases. 2.1
	2.1
 · 14.4 Packing group · ADR, IMDG, IATA 	Void
· 14.5 Environmental hazards:	Not applicable.
 14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Code Segregation Code 	Warning: Gases. F-D,S-U SW1 Protected from sources of heat. 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. SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
 14.7 Maritime transport in bulk according to IM instruments 	O Not applicable.
· Transport/Additional information:	
 ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category 	1L Code: E0 Not permitted as Excepted Quantity 2
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· Tunnel restriction code	(Contd. of pag	ge 10)
·IMDG		
 Limited quantities (LQ) 	1L	
 Excepted quantities (EQ) 	Code: E0	
UN "Model Regulation":	Not permitted as Excepted Quantity UN 1950 AEROSOLS, 2.1	

SECTION 15: Regulatory information

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Labelling according to Regulation (EC) No 1272/2008

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

Hazard pictograms



· Signal word Danger

· Hazard-determining components of labelling:

ethyl acetate

Kohlenwasserstoffe, C9-C11, n-Alkane, Isoalkane, Cycloalkane, < 2% Aromaten Naphtha (petroleum), hydrotreated light

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.
- P261 Avoid breathing spray.
- 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.
- · Directive 2012/18/EU
- Named dangerous substances ANNEX I Methanol
- · 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



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• REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

• DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

 Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

• Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

• 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.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- H336 May cause drowsiness or dizziness.
- H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

- · Contact: sdb@ede.de
- · Date of previous version: 09.03.2023

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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 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) DNEL: Derived No-Effect Level (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic



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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. 1: Acute toxicity – Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Asp. Tox. 1: Aspiration hazard – Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

 \cdot * Data compared to the previous version altered.