

Printing date 13.05.2022

Version number 1

Revision: 13.05.2022

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

- · 1.1 Product identifier
- · Trade name: Safety brake cleaner PRO E-COLL
- · Article number: 4317784638012
- · UFI: DAH0-MNJC-G807-WTMV

· 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 Cleaning agent/ Cleaner

· 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 2	H223-H229	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.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
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.

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· Hazard pictograms



· Signal word Warning

· Hazard-determining components of labelling:

Hydrocarbons, C7-C9, isoalkanes propan-2-ol Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics acetone

· Hazard statements

H223-H229 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

Frecautionary Sta	liements
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
	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.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear eye protection / face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P312	IF INHALED: Call a POISON CENTER/doctor if you feel unwell.
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
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:

EUH018 In use may form flammable/explosive vapour-air mixture.

Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9.

Buildup of explosive mixtures possible without sufficient ventilation.

· 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.

· Dangerous components:		
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25-xxxx	propan-2-ol Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	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	20-25%
EC number: 921-728-3 Reg.nr.: 01-2119471305-42	Hydrocarbons, C7-C9, isoalkanes Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 Skin Irrit. 2, H315; STOT SE 3, H336	3-5%
CAS: 124-38-9 EINECS: 204-696-9	carbon dioxide substance with a Community workplace exposure limit	3-5%
EC number: 927-241-2 Reg.nr.: 01-2119471843-32-XXXX	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 3, H412 EUH066	3-5%

· Regulation (EC) No 648/2004 on detergents / Labelling for contents

15 % or over but less than 30 % aliphatic hydrocarbons

· 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.

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- 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.
- **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: 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 Wear protective equipment. Keep unprotected persons away.
 Ensure adequate ventilation
- · 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.

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SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling
- · Information about fire and explosion protection:



Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

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: 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 va	IOELV Long-term value: 1210 mg/m ³ , 500 ppm			
CAS: 124-38-9 carbo	CAS: 124-38-9 carbon dioxide			
IOELV Long-term va	IOELV Long-term value: 9000 mg/m ³ , 5000 ppm			
·DNELs	·DNELs			
CAS: 67-63-0 propa	CAS: 67-63-0 propan-2-ol			
Inhalative DNEL (wo	orker)	500 mg/m ³ (Workers)		
DNEL (po	pulation)	89 mg/m³ (cus)		

- 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.



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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:** 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

· Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

 \cdot 9.1 Information on basic physical and chemical properties

of the matter of basic physical and chemical		
· General Information		
· Physical state	Aerosol	
Colour:	Colourless	
· Odour:	Solvent-like	
· Odour threshold:	Not determined.	
 Melting point/freezing point: 	Undetermined.	
· Boiling point or initial boiling point and boiling		
range	55 °C	
· Flammability	Not applicable.	
 Lower and upper explosion limit 		
· Lower:	0.7 Vol %	
· Upper:	14.3 Vol %	
· Flash point:	-17 °C	
 Decomposition temperature: 	Not determined.	
∙рН	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.	
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· Vapour pressure:	Not determined.
 Density and/or relative density 	
· Density at 20 °C:	0.755 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.	
• Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of
	explosive air/vapour mixtures are possible.
 Change in condition 	
· Evaporation rate	Not applicable.
 Information with regard to physical hazard classes 	
· Explosives	Void
Flammable gases	Void
· Aerosols	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 flammabl	e
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.

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• 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	· LD/LC50 values relevant for classification:				
CAS: 67-6	CAS: 67-63-0 propan-2-ol				
Oral	LD50	5,045 mg/kg (rat)			
Dermal	LD50	12,800 mg/kg (rabbit)			
Inhalative	LC50/4h	30 ppm (rat)			
CAS: 67-64-1 acetone					
Oral	LD50	5,800 mg/kg (rat)			
Dermal	LD50	20,000 mg/kg (rabbit)			
Inhalative	LC50/4h	76 mg/m³ (rat)			
Hydrocarbons, C7-C9, isoalkanes					
Oral	LD50	7,100-7,800 mg/kg (rat)			
Dermal	LD50	2,200-2,500 mg/kg (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 May be fatal if swallowed and enters airways.

· 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: 67-63-0 propan-2-ol

CAS. 01-03				
EC50/24h	EC50/24h >10,000 mg/l (daphnia)			
CAS: 67-64	-1 acetone			
LC50 (96h)	5,000 mg/L (Lepomis macrochirus)			
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)			
Hydrocarbo	Hydrocarbons, C7-C9, isoalkanes			
LC50	21 mg/L /Dämpfe (rat)			

• 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 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
I	16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
Ī	16 05 00	gases in pressure containers and discarded chemicals
I	16 05 04*	gases in pressure containers (including halons) containing hazardous substances
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Safety data sheet according to 1907/2006/EC, Article 31

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HP3	Flammable
HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP14	Ecotoxic

SECTION 14: Transport information

· 14.1 UN number or ID number	
· ADR, IMDG, IATA	UN1950
 14.2 UN proper shipping name ADR IMDG IATA 	UN1950 AEROSOLS AEROSOLS AEROSOLS, flammable
· 14.3 Transport hazard class(es)	
ADR	
· Class · Label	2 5F Gases. 2.1
· IMDG, IATA	
· Class · Label	2.1 Gases. 2.1
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Warning: Gases.
 Hazard identification number (Kemler code): EMS Number: Stowage Code Segregation Code 	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.
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	For WASTE AEROS Segregation as for the 2.	(Contd. of page 10) OLS: e appropriate subdivision of class
 14.7 Maritime transport in bulk according instruments 	to IMO Not applicable.	
· Transport/Additional information:		
 ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code 	1L Code: E0 Not permitted as Exce 2 D	epted Quantity
 IMDG Limited quantities (LQ) Excepted quantities (EQ) UN "Model Regulation": 	1L Code: E0 Not permitted as Exc UN 1950 AEROSOLS	

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 Warning

· Hazard-determining components of labelling:

Hydrocarbons, C7-C9, isoalkanes

propan-2-ol

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

acetone

· Hazard statements

H223-H229 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.

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P251	Do not pierce or burn, even after use.
P260	Do not breathe spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear eye protection / face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P312	IF INHALED: Call a POISON CENTER/doctor if you feel unwell.
P305+P351+P338	B IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
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 P3b FLAMMABLE AEROSOLS
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 5.000 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 50.000 t
- · 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

CAS: 67-64-1 acetone

Regulation (EC) No 273/2004 on drug precursors

CAS: 67-64-1 acetone

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors 3

CAS: 67-64-1 acetone

· National regulations:

· Information about limitation of use: Employment restrictions concerning pregnant and lactating women must be observed.

· 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.

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· Relevant phrases

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.
- 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: 13.05.2022

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 (RÈACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Aerosol 2: Aerosols - Category 2 Flam. Liq. 2: Flammable liquids - Category 2 Flam. Liq. 3: Flammable liquids - Category 3 Skin Irrit. 2: Skin corrosion/irritation - Category 2 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 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

·* Data compared to the previous version altered.

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