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Version number 303

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

· 1.1 Product identifier

· Trade name: Boiler cleaner E-COLL

· Article number: 4317784244886

- · 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 Cleaning material/ Detergent

 \cdot 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



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

· 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



· Signal word Danger

· Hazard statements

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

· 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.
- Do not pierce or burn, even after use. P251
- P211 Do not spray on an open flame or other ignition source.
- Use only outdoors or in a well-ventilated area. P271
- 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:

Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2Hisothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.

(Contd. on page 2)

GB



Version number 303

Revision: 24.04.2015

Trade name: Boiler cleaner E-COLL

- · 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	propane	2.5-10%
EINECS: 200-827-9	🛞 Flam. Gas 1, H220; Press. Gas C, H280	
Reg.nr.: 01-2119486944-21-xxxx		
CAS: 106-97-8	butane	2.5-10%
EINECS: 203-448-7	🛞 Flam. Gas 1, H220; Press. Gas C, H280	
Reg.nr.: 01-2119474691-32-xxxx		
CAS: 75-28-5	isobutane	2.5-10%
EINECS: 200-857-2	🛞 Flam. Gas 1, H220; Press. Gas C, H280	
Reg.nr.: 01-2119485395-27-xxxx		
CAS: 78-78-4	isopentane	< 1%
EINECS: 201-142-8	♦ Flam. Liq. 1, H224; ♦ Asp. Tox. 1, H304; ♦ Aquatic Chronic 2, H411; ↑ STOT SE 3, H336	
CAS: 55965-84-9	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC	< 1%
	no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-	
	239-6] (3:1)	
	♦ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ♦ Skin Corr. 1B, H314; ♦ Aquatic Acute 1, H400;	
	Aquatic Chronic 1, H410; Skin Sens. 1, H317	

· 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 risk phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air.
- · 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: 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.

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

(Contd. on page 3)

(Contd. of page 1)

GB



Version number 303

Revision: 24.04.2015

(Contd. of page 2)

Trade name: Boiler cleaner E-COLL

- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 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 product to reach sewage system or any water course. Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.
- 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.

· 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/m³, 750 ppm

Long-term value: 1450 mg/m³, 600 ppm

Carc (if more than 0.1% of buta-1.3-diene)

· Additional information: The lists valid during the making were used as basis.

(Contd. on page 4)

GB

GB



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

Version number 303

Revision: 24.04.2015

Trade name: Boiler cleaner E-COLL

	(Contd. of page 3)
· 8.2 Exposure controls	
· Personal protective equipment:	
· General protective and hygienic measures:	
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 skin.	
· Respiratory protection:	
Use suitable respiratory protective device in case of insufficient ventilation.	
Filter A/P2	
· Protection of hands:	
Protective gloves	
Recommendation: 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 glove observed.	es and has to be
· Eye protection:	



Tightly sealed goggles

SECTION 9: Physical and ch	emical properties	
• 9.1 Information on basic physical a	nd chemical properties	
• General Information		
· Appearance:	4 7	
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:	Not determined.	
Upper:	Not determined.	
		(Contd. on page 5



Version number 303

Revision: 24.04.2015

Trade name: Boiler cleaner E-COLL

		(Contd. of page 4
• Vapour pressure at 20 •C:	23 hPa	
· Density at 20 •C:	$0.89 \ g/cm^3$	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/w	vater): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
VOC(EC) g/l	140 g/l	
VOCV (CH)	15.73 %	
· 9.2 Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

· 10.1 Reactivity

· 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:
- · Primary irritant effect:
- on the skin: No irritant effect.
- \cdot on the eye: Strong irritant with the danger of severe eye injury.
- Sensitisation: Sensitisation possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant

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.
- \cdot 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. Danger to drinking water if even small quantities leak into the ground.

- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.

(Contd. on page 6)

GB



Version number 303

Revision: 24.04.2015

(Contd. of page 5)

Trade name: Boiler cleaner E-COLL

- · 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.

· European waste catalogue

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

14.1 UN-Number ADR, IMDG, IATA	UN1950	
14.2 UN proper shipping name ADR IMDG, IATA	UN1950 AEROSOLS AEROSOLS	
14.3 Transport hazard class(es)		
ADR		
Class Label	2 5F Gases. 2.1	
IMDG, IATA		
Class Label	2 Gases. 2.1	
14.4 Packing group ADR	Void	
14.5 Environmental hazards: Marine pollutant:	No	
14.6 Special precautions for user EMS Number:	Warning: Gases. F-D,S-U	
14.7 Transport in bulk according to Anne MARPOL73/78 and the IBC Code	x II of Not applicable.	
Transport/Additional information:		
ADR Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity	
Transport category	2	
Tunnel restriction code	D	



Version number 303

Revision: 24.04.2015

(Contd. of page 6)

Trade name: Boiler cleaner E-COLL

· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity	
· 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.

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. H280 Contains gas under pressure; may explode if heated. H301 Toxic if swallowed. H304 May be fatal if swallowed and enters airways. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H331 Toxic if inhaled. H336 May cause drowsiness or dizziness. 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. · 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, Schweis (Swiss Ordinance on volatile organic compounds) 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 Acute Tox. 3: Acute toxicity, Hazard Category 3

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

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

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

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

Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, 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

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