

Printing date 23.07.2024 Version number 305 (replaces version 304) Revision: 23.07.2024

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

· 1.1 Product identifier 600281

· Trade name: Ice rust remover E-COLL

· Article number: 4317784389990

· UFI: G70R-74GQ-MC0J-PY19

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 Lubricant
- · 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.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

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.

· Hazard pictograms







GHS02 GHS07

GHS08



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· Signal word Danger

· Hazard-determining components of labelling:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics 2-25% Distillates (petroleum), hydro-treated light

· Hazard statements

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

H315 Causes skin irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

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.

P260 Do not breathe spray.

P273 Avoid release to the environment.

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

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

P332+P313 If skin irritation occurs: 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:

EUH208 Contains Betula Oil. May produce an allergic reaction. Buildup of explosive mixtures possible without sufficient ventilation.

· 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:				
EINECS: 203-448-7	butane, pure Flam. Gas 1A, H220 Press. Gas (Comp.), H280	25-50%		
1 L	propane Flam. Gas 1A, H220	2.5-10%		



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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	2.5-10%
CAS: 92128-66-0 EC number: 921-024-6 Reg.nr.: 01-2119475514-35-xxxx	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 Skin Irrit. 2, H315; STOT SE 3, H336	2.5-10%
CAS: 64742-47-8 EC number: 926-141-6 Reg.nr.: 01-2119456620-43	Distillates (petroleum), hydro- treated light \$\infty\$ Asp. Tox. 1, H304 EUH066	<1.25%
CAS: 64742-82-1 EC number: 919-164-8 Index number: 649-330-00-2 Reg.nr.: 01-2119473977-17-xxxx	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics 2-25% STOT RE 1, H372; Asp. Tox. 1, H304 Aquatic Chronic 3, H412 EUH066	<1.25%
CAS: 119-36-8	Betula Oil Repr. 2, H361 Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Sens. 1B, H317 Aquatic Chronic 3, H412	0.1-<1%

· 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: 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.

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• 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.
- · Additional information

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

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:

Inform respective authorities in case of seepage into water course or sewage system.

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.



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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: None.
- · 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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs

CAS: 92128-66-0 Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane

Inhalative Long term value for employees 2,035 mg/m³ (humen)

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see section 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:

Use suitable respiratory protective device in case of insufficient ventilation.

Short term filter device:

Filter A/P2

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· Hand protection



· 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



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

Colour:
 Odour:
 Odour threshold:
 Melting point/freezing point:
 Colourless
 Characteristic
 Not determined.
 Undetermined.

· Boiling point or initial boiling point and boiling

range Not applicable, as aerosol.

· Flammability Not applicable.

· Lower and upper explosion limit

• **Lower:** 0.6 Vol %

• **Upper:** 10.9 Vol % (CAS: 74-98-6 propane)

· Flash point: Not applicable, as aerosol.

· Auto-ignition temperature: 230 °C

Decomposition temperature:pHNot determined.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: 4000 hPa

· Density and/or relative density

Density at 20 °C:
 Relative density
 0.6 g/cm³
 Not determined.

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· Vapour density Not determined.

· 9.2 Other information

· Appearance:

· Form: Aerosol

· Important information on protection of health and environment, and on safety.

• **Ignition temperature:** Product is not selfigniting.

• Explosive properties: Not determined.

· Solvent separation test:

· Organic solvents: 98.34 %

· Change in condition

· Drip point:

Oxidising propertiesEvaporation rateNot determined.Not applicable.

Information with regard to physical hazard classes

• Explosives Void
• Flammable gases Void

· Aerosols Extremely flammable aerosol. Pressurised container:

Void

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

SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability

· Desensitised explosives

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions Reacts with oxidising agents.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.

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· 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: 74-9	CAS: 74-98-6 propane				
Inhalative	LC50/4h	>20 mg/m³ (rat)			
CAS: 92128-66-0 Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane					
Oral	LD50	>5,000 mg/kg (rat)			
Dermal	LD50	2,800 mg/kg (rat)			
CAS: 119-36-8 Betula Oil					
Oral	LD50	890 mg/kg (not defined)			
		887 mg/kg (rat)			

· Skin corrosion/irritation

Causes skin irritation.

- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · 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 Based on available data, the classification criteria are not met.
- · STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

· 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: 75-28-5 isobutane					
	EC50 (48h)	69.43 mg/L (daphnia)			
CAS: 92128-66-0 Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane					
Inhalative	LC50	25.2 mg/L (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 For information on endocrine disrupting properties see section 11.
- · 12.7 Other adverse effects
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies.

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 15 01 10* packaging containing residues of or contaminated by hazardous substances 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



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· 14.2 UN proper shipping name

· ADR UN1950 AEROSOLS · IMDG, IATA AEROSOLS

· 14.3 Transport hazard class(es)

· ADR





· Class 2 5F Gases.

· Label 2.1

· IMDG





Class
 Label
 2 Gases.
 2.1

·IATA



Class
 Label
 2 Gases.
 2.1

· 14.4 Packing group

· ADR, IMDG, IATA Void

• 14.5 Environmental hazards: Product contains environmentally hazardous

substances: Hydrocarbons, C6-C7, n-alkanes,

isoalkanes, cyclics, <5% n-hexane

· Marine pollutant: No

Symbol (fish and tree)

· Special marking (ADR): Symbol (fish and tree)

· 14.6 Special precautions for user

Warning: Gases.

· Hazard identification number (Kemler code):

F-D,S-U

· 14.7 Maritime transport in bulk according to IMO

instruments Not applicable.

· Transport/Additional information:

· ADR

· EMS Number:

· Limited quantities (LQ) 1L

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• Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity

Transport categoryTunnel restriction code

· IMDG

Limited quantities (LQ)Excepted quantities (EQ)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.

Labelling according to Regulation (EC) No 1272/2008

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

· Hazard pictograms







GHS02 GHS07 GHS08

· Signal word Danger

· Hazard-determining components of labelling:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, >5% n-hexane Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics 2-25%

Distillates (petroleum), hydro- treated light

· Hazard statements

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

H315 Causes skin irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

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

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.

P273 Avoid release to the environment.

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

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

P332+P313 If skin irritation occurs: 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.

· Chemical safety assessment

· Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t

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- · Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · 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.

- Highly flammable liquid and vapour. H225
- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- May cause an allergic skin reaction. H317
- H318 Causes serious eye damage.
- H336 May cause drowsiness or dizziness.
- H361 Suspected of damaging fertility or the unborn child.
- H372 Causes damage to organs through prolonged or repeated exposure.
- 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.

- Date of previous version: 22.02.2023
- · Version number of previous version: 304

· 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

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

Acute Tox. 4: Acute toxicity - Category 4

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

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Skin Sens. 1B: Skin sensitisation - Category 1B

Repr. 2: Reproductive toxicity - 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 Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

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Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

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Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

· * Data compared to the previous version altered.

- EU ---