



# Eni Inhibitor CC

Material number 395

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

Revision date: 20.3.2024

Version: 6.0

Replaces version: 5.3

Language: en-DE

Date of print: 4.4.2024

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

### 1.1 Product identifier

Trade name: Eni Inhibitor CC  
UFI: F630-W0C9-0006-97Q9

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

General use: Metalworking fluid.

### 1.3 Details of the supplier of the safety data sheet

Company name: Enilive Schmiertechnik GmbH  
Street/POB-No.: Paradiesstraße 14  
Postal Code, city: 97080 Würzburg  
Germany  
E-mail: info.wuerzburg@enilive.com  
Telephone: +49 (0)931-90098-0  
Telefax: +49 (0)931-98442  
Department responsible for information:  
Application Engineering & Product Management (AEPM)  
Telephone: +49 (0)931-90098-0  
E-mail: technik.wuerzburg@enilive.com

### 1.4 Emergency telephone number

**GIZ-Nord, Göttingen**  
**Telephone: +49 (0)551-19240**

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to EC regulation 1272/2008 (CLP)

Eye Irrit. 2; H319 Causes serious eye irritation.  
Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling (CLP)



Signal word: **Warning**  
Hazard statements: H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.



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### Precautionary statements:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501	Dispose of contents/container to hazardous or special waste collection point.

### 2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

The product does not contain any substances classified as PBT or vPvB.

CAS No.	Designation	PBT/vPvB	ED Human	ED Environment
95-14-7	Benzotriazole			List II

## SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

### 3.2 Mixtures

Chemical characterisation: Mixture of the substance mentioned below with non-hazardous additions

Hazardous ingredients:

Identifiers	Designation Classification	Content
REACH 01-2119475104-44-xxxx EC No. 203-961-6 CAS 112-34-5	2-(2-Butoxyethoxy)ethanol Eye Irrit. 2; H319.	< 80 %
REACH 01-2119979079-20-xxxx EC No. 202-394-1 CAS 95-14-7	Benzotriazole Acute Tox. 4; H302. Eye Irrit. 2; H319. Aquatic Chronic 2; H411.	< 25 %

Full text of H- and EUH-statements: see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General information:	If medical advice is needed, have product container or label at hand. Take off contaminated clothing and wash it before reuse.
In case of inhalation:	Remove casualty to fresh air and keep warm and at rest. If breathing becomes irregular or ceases, apply rescue breathing or artificial respiration immediately, where required supply oxygen. If unconscious place in recovery position and seek medical advice.
Following skin contact:	Immediately clean with water and soap followed by thorough rinsing. In case of skin reactions, consult a physician.



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After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an ophthalmologist.

After swallowing: Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Seek medical attention.

### 4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye irritation.

### 4.3 Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media:

Water spray jet, water mist, extinguishing powder, foam, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet.

### 5.2 Special hazards arising from the substance or mixture

May form dangerous gases and vapours in case of fire. Do not inhale explosion and combustion gases.

Furthermore, there may develop: Nitrogen oxides (NO<sub>x</sub>), Smoke, traces of incompletely burned carbon compounds, carbon monoxide and carbon dioxide.

### 5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

Use fine water spray to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely.

Contaminated fire-fighting water must be collected separately. Do not allow water used to extinguish fire to enter drains, ground or waterways.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapour/aerosol/mist. Avoid contact with the substance.

If possible, eliminate leakage. Provide adequate ventilation.

Wear appropriate protective equipment. Keep unprotected people away.

Take off contaminated clothing and wash it before reuse.

### 6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains.

If necessary notify appropriate authorities.



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### 6.3 Methods and material for containment and cleaning up

Make sure spills can be contained, e.g. in sump pallets or kerbed areas. Prevent spread over a wide area (e.g. by containment or oil barriers).

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal.

Never return spills in original containers for re-use.

Additional information: Special danger of slipping by leaking/spilling product.

### 6.4 Reference to other sections

Refer additionally to section 8 and 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Do not breathe vapour/aerosol/mist.

Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment.

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

Have eye wash bottle or eye rinse ready at work place.

Precautions against fire and explosion:

Keep away from heat.

When handling larger quantities, take precautionary measures against electrostatic charging.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place.

Keep container dry. Keep only in the original container.

Protect from heat and direct sunlight. Protect from frost.

Storage temperature: 5 - 40 °C

Storage stability: 24 months

Hints on joint storage:

Do not store together with: strong oxidizing agents.

Keep away from food, drink and animal feedingstuffs.

Storage class:

10 = Combustible liquids, unless storage class 3

### 7.3 Specific end use(s)

No information available.



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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
112-34-5	2-(2-Butoxyethoxy) ethanol	Europe: IOELV: STEL	101,2 mg/m <sup>3</sup> ; 15 ppm
		Europe: IOELV: TWA	67,5 mg/m <sup>3</sup> ; 10 ppm
		Germany: TRGS 900 Kurzzeit	100,5 mg/m <sup>3</sup> ; 15 ppm (Aerosol and vapour)
		Germany: TRGS 900 Langzeit	67 mg/m <sup>3</sup> ; 10 ppm (Aerosol and vapour)

DNEL/DMEL:

Information about 2-(2-Butoxyethoxy)ethanol:

DNEL workers, inhalative, long-term, local: 67,5 mg/m<sup>3</sup>

DNEL workers, inhalative, short-term, local: 101,2 mg/m<sup>3</sup>

Information about Benzotriazole:

DNEL workers, dermal, long-term, systemic: 0,24 mg/kg bw/d

DNEL workers, dermal, long-term, systemic: NOAEL: 36 mg/kg bw/d

DNEL workers, inhalative, long-term, systemic: 4,2 mg/m<sup>3</sup>

DNEL workers, inhalative, long-term, systemic: NOAEL: 36 mg/kg bw/d

DNEL workers, inhalative, long-term, systemic: NOAEC: 635 mg/m<sup>3</sup>

PNEC:

Information about 2-(2-Butoxyethoxy)ethanol:

PNEC water (freshwater): 1,1 mg/L

PNEC water (marine water): 0,11 mg/L

PNEC sediment (freshwater): 4,4 mg/kg/dw

PNEC sediment (marine water): 0,44 mg/kg dw

PNEC floor: 0,32 mg/kg dw

PNEC oral: 56 mg/kg Food

Information about Benzotriazole:

PNEC water (freshwater): 97 µg/L

PNEC water (marine water): 9,7 µg/L

PNEC sediment (freshwater): 1,1 mg/kg/dw

PNEC sediment (marine water): 0,11 mg/kg dw

PNEC floor: 0,169 mg/kg dw

PNEC sewage treatment plant: 9,4 mg/L

### 8.2 Exposure controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment.

### Personal protection equipment

#### Occupational exposure controls

Respiratory protection:

Respiratory protection must be worn whenever the WEL levels have been exceeded.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.

Use filter type A/P2 according to EN 14387.



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Hand protection:	Protective gloves according to DIN EN 374. During full contact: Glove material: NBR nitrile rubber, CR (polychloroprene, chloroprene rubber). Breakthrough time: > 480 min Layer thickness: >= 0,70 mm During splash contact: Glove material: NBR nitrile rubber, CR (polychloroprene, chloroprene rubber). Breakthrough time: > 30 min Layer thickness: >= 0,40 mm Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
Eye protection:	Tightly sealed goggles according to DIN EN ISO 16321-1:2022.
Body protection:	Wear suitable protective clothing.
General protection and hygiene measures:	Do not breathe vapour/aerosol/mist. Do not get in eyes, on skin, or on clothing. Take off contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Have eye wash bottle or eye rinse ready at work place.

### Environmental exposure controls

Do not allow to enter into ground-water, surface water or drains.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa	liquid
Colour:	yellow
Odour:	Characteristic
Odour threshold:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	> 180 °C (1013 hPa)
Flammability:	No data available
Upper/lower flammability or explosive limits:	No data available
Flash point/flash point range:	115 °C (DIN EN ISO 2592)
Auto-ignition temperature:	> 220 °C (DIN 51794)
Decomposition temperature:	No data available
pH:	at 20 °C, 1%: 6 - 7
Viscosity, kinematic:	at 20 °C: 14 mm <sup>2</sup> /s (DIN EN ISO 3104)
Water solubility:	at 20 °C: Miscible
Partition coefficient: n-octanol/water:	Not applicable
Vapour pressure:	No data available
Density:	at 15 °C: 1,02 g/mL (DIN EN ISO 12185)
Vapour density:	No data available
Particle characteristics:	Not applicable

### 9.2 Other information

Explosive properties:	No data available
Oxidizing characteristics:	No data available



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Auto-ignition temperature: No data available

Evaporation rate: No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Refer to subsection "Possibility of hazardous reactions".

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4 Conditions to avoid

Keep away from heat sources, sparks and open flames.  
Protect from direct sunlight. Protect from frost.

### 10.5 Incompatible materials

Strong oxidizing agents.

### 10.6 Hazardous decomposition products

No hazardous decomposition products when regulations for storage and handling are observed.

Thermal decomposition: No data available



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## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.  
ATEmix (calculated): 2.000 mg/kg < ATE ≤ 5.000 mg/kg

Acute toxicity (dermal): Based on available data, the classification criteria are not met.  
ATEmix (calculated): 2.000 mg/kg < ATE ≤ 5.000 mg/kg

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.  
ATEmix (calculated): > 20 mg/L

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation.

Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.

Skin sensitisation: Based on available data, the classification criteria are not met.

Germ cell mutagenicity/Genotoxicity: 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.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

Specific target organ toxicity (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:

No data available

Other information:

Information about 2-(2-Butoxyethoxy)ethanol:

LD50 Mouse, oral: 2.410 mg/kg bw (OECD 401)

LD50 Rabbit, dermal: 2.764 mg/kg bw (OECD 402)

LC50 Rat, inhalative: > 29 ppm/2h Aerosol

Information about Benzotriazole:

LD50 Rat, oral: ca. 500 mg/kg bw (OECD 423)

LD50 Rabbit, dermal: > 2.000 mg/kg bw (OECD 402)

LC50 Rat, inhalative: > 1,91 mg/L/3h Aerosol

### Symptoms

Processing vapours can irritate the respiratory tracts, skin and eyes.

After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.



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## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity: Harmful to aquatic life with long lasting effects.  
Information about 2-(2-Butoxyethoxy)ethanol:  
LC50 freshwater fish *Lepomis macrochirus* (bluegill): > 1.300 mg/L/96h.  
Fish toxicity:  
LC50 marine water fish: > 2.000 mg/L  
Daphnia toxicity:  
EC50 *Daphnia magna* (Big water flea): > 100 mg/L/48h (OECD 202)  
Algae toxicity:  
EC50 Green algae: > 100 mg/L/96h (OECD 201)

Water Hazard Class: 2 = obviously hazardous to water (Self-classification (mixture).)

### 12.2 Persistence and degradability

Further details: Part of the components is biodegradable.

### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:  
No indication of bioaccumulation potential.  
Not applicable

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

The product does not contain any substances classified as PBT or vPvB.

### 12.6 Endocrine disrupting properties

This product contains a substance that has endocrine disrupting properties with respect to non-target organisms.

### 12.7 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Waste key number: 12 01 07\* = Mineral-based machining oils free of halogens (except emulsions and solutions).  
\* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation.  
Do not dispose of with household waste.



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### Package

Recommendation: Dispose of waste according to applicable legislation.  
Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR/RID, IMDG, IATA-DGR:

not applicable

ADN: ID 9006

### 14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

Not restricted

ADN: ID 9006, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

### 14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:

not applicable

ADN: Class 9, Code: M12

### 14.4 Packing group

ADR/RID, ADN, IMDG, IATA-DGR:

not applicable

### 14.5 Environmental hazards

Dangerous for the environment:

Substance/mixture is not environmentally hazardous according to the criteria of the UN model regulations.

Marine pollutant - IMDG: no

### 14.6 Special precautions for user

#### Inland waterway craft (ADN)

Hazard label: -  
Transport permitted: T  
Equipment necessary: PP

### 14.7 Maritime transport in bulk according to IMO instruments

No data available

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations - Germany

Storage class: 10 = Combustible liquids, unless storage class 3

Water Hazard Class: 2 = obviously hazardous to water (Self-classification (mixture).)

Technical guidance air: 5.2.5

Information on working limitations:

Observe employment restrictions for young people.

Further regulations, limitations and legal requirements:

The product is not subject to the Chemicals Prohibition Ordinance (ChemVerbotsV).

### National regulations - EC member states

Volatile organic compounds (VOC):

76 % by weight

### Labelling of packaging with <= 125mL content



Signal word:

**Warning**

Hazard statements: 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.

Further regulations, limitations and legal requirements:

Use restriction according to REACH annex XVII, no.: 3, 55, 75.

## 15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

## SECTION 16: Other information

Wording of the H-phrases under paragraph 2 and 3:

H302 = Harmful if swallowed.

H319 = Causes serious eye irritation.

H411 = Toxic to aquatic life with long lasting effects.

H412 = Harmful to aquatic life with long lasting effects.

Reason of change: Changes in section 1: Details of the supplier of the safety data sheet  
General revision

Date of first version: 23.3.2022

Department issuing data sheet:

see section 1: Department responsible for information



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### Abbreviations and acronyms:

Acute Tox.: Acute toxicity  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
Aquatic Chronic: Hazardous to the aquatic environment - chronic  
AS/NZS: Australian Standards/New Zealand Standards  
ATE: Acute toxicity estimate  
CAS: Chemical Abstracts Service  
CFR: Code of Federal Regulations  
CLP: Classification, Labelling and Packaging  
DMEL: Derived minimal effect level  
DNEL: Derived no-effect level  
EC: European Community  
EC50: Effective Concentration 50%  
EN: European Standard  
EQ: Excepted quantities  
EU: European Union  
Eye Irrit.: Eye irritation  
IATA: International Air Transport Association  
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations  
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IMDG Code: International Maritime Dangerous Goods Code  
LC50: Median lethal concentration  
LD50: Lethal dose 50%  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
OECD: Organisation for Economic Co-operation and Development  
OEL: Occupational Exposure Limit Value  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, bioaccumulative and toxic  
PNEC: Predicted no-effect concentration  
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail  
TLV: Threshold Limit Value  
TRGS: Technical Rules for Hazardous Substances  
vPvB: Very persistent and very bioaccumulative  
WEL: Workplace Exposure Limit

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

Most recent product information is available at:  
<http://sumdat.net/yzc5nxml4>

