



# Eni metalClean NR

Material number 928

## Safety Data Sheet

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

Revision date: 23.4.2026  
Version: 3.0  
Replaces version: 2.0  
Language: en-DE  
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name: Eni metalClean NR  
UFI: 3UE0-N0XG-Y00J-AJY9

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

General use: Cleaner

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

Company name: Enilive Schmiertechnik GmbH  
Street/POB-No.: Paradiesstraße 14  
Postcode, city: 97080 Würzburg  
Germany  
Email: 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  
Email: 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)

Skin Irrit. 2; H315 Causes skin irritation.  
Eye Dam. 1; H318 Causes serious eye damage.  
Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling (CLP)



Signal word: **Danger**  
Hazard statements: H315 Causes skin irritation.  
H318 Causes serious eye damage.  
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.  
P264 Wash hands and face thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face 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.  
P310 Immediately call a POISON CENTER/doctor.  
P501 Dispose of contents/container to hazardous or special waste collection point.

### Special labelling

- EUH208 Contains Biphenyl-2-ol and 2-n-Butyl-benzo[d]isothiazol-3-one. May produce an allergic reaction.

### Text for labelling:

Contains:  
2-(2-Aminoethoxy)ethanol  
Alcohols, C8-10, ethers with polyethylene-polypropylene glycol monobenzyl ether  
Alcohols, C12–14 (even-numbered), ethoxylated  
Labelling for contents according to regulation (EC) No 648/2004, annex VII:  
Contains:  
- less than 5% non-ionic surfactants, cationic surfactants

## 2.3 Other hazards

Special danger of slipping by leaking/spilling product.

### Endocrine disrupting properties, Results of PBT and vPvB assessment:

This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% (w/w) or higher. The product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable



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### 3.2 Mixtures

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.	< 10 %
REACH 01-2119520701-52-xxxx EC No. 213-195-4 CAS 929-06-6	2-(2-Aminoethoxy)ethanol Skin Corr. 1B; H314. Eye Dam. 1; H318.	< 3 %
list no. 627-098-3 CAS 68154-99-4	Alcohols, C8-10, ethers with polyethylene-polypropylene glycol monobenzyl ether Acute Tox. 4; H312. Skin Irrit. 2; H315. Eye Dam. 1; H318.	< 3 %
list no. 932-106-6 CAS 68439-50-9	Alcohols, C12-14 (even-numbered), ethoxylated Acute Tox. 4; H302. Eye Dam. 1; H318. Aquatic Chronic 3; H412.	< 3 %
REACH 01-2119511183-53-xxxx EC No. 201-993-5 CAS 90-43-7	Biphenyl-2-ol Skin Corr. 1; H314. Eye Dam. 1; H318. Skin Sens. 1B; H317. Carc. 2; H351. Aquatic Acute 1; H400. Aquatic Chronic 1; H410. M-factors: Aquatic Acute 1: M = 1. Aquatic Chronic 1: M = 1.	< 0,5 %
list no. 608-578-1 CAS 31075-24-8	1,2-Ethanediamine, N,N,N',N'-tetramethyl-, polymer with 1,1'-oxybis(2-chloroethane) Acute Tox. 4; H302. Acute Tox. 4; H332. Aquatic Acute 1; H400. Aquatic Chronic 1; H410. M-factors: Aquatic Acute 1: M = 1. Aquatic Chronic 1: M = 1.	< 0,5 %
EC No. 420-590-7 CAS 4299-07-4	2-n-Butyl-benzo[d]isothiazol-3-one Skin Corr. 1B; H314. Eye Dam. 1; H318. Skin Sens. 1; H317. Aquatic Acute 1; H400. Aquatic Chronic 1; H410. M-factors: Aquatic Acute 1: M = 10. Aquatic Chronic 1: M = 1.	< 0,25 %

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

Additional information: Contains Triethanolamine (CAS 102-71-6). The maximum workplace exposure limits are, where necessary, listed in section 8.

Labelling for contents according to regulation (EC) No 648/2004, annex VII:

Contains:

- less than 5% non-ionic surfactants, cationic surfactants



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

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

Causes skin irritation.  
Causes serious eye damage.  
May cause allergic reactions in already sensitized persons.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media:	Water spray jet, water mist, extinguishing powder, alcohol resistant 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.  
Furthermore, there may develop: Smoke, nitrogen oxides (NO<sub>x</sub>), sulphur oxides, 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. 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.



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## SECTION 6: Accidental release measures

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

Do not breathe mist/vapours/spray. Avoid contact with the substance.  
Eliminate all ignition sources if safe to do so. Provide adequate ventilation.  
Keep unprotected people away.  
Wear appropriate protective equipment. 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. Do not allow to enter into soil/subsoil.  
If necessary, notify appropriate authorities.

### 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 mist/vapours/spray. 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.  
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 and in a well-ventilated place.  
Keep container dry. Keep only in the original container.  
Protect from heat and direct sunlight. Protect from frost.  
Store containers in upright position.  
Recommended storage temperature: 5-40 °C  
Shelf life: 12 months

Hints on joint storage: Keep away from food, drink and animal feedingstuffs.

Storage class: 10 = Combustible liquids that cannot be assigned to any of the above storage classes



### 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
102-71-6	Triethanolamine	Germany: TRGS 900 Kurzzeit	1 mg/m <sup>3</sup> (inhalable fraction)
		Germany: TRGS 900 Langzeit	1 mg/m <sup>3</sup> (inhalable fraction)
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)
929-06-6	2-(2-Aminoethoxy)ethanol	Germany: TRGS 900 Kurzzeit	0,87 mg/m <sup>3</sup> ; 0,2 ppm (Aerosol and vapour, may be absorbed through the skin)
		Germany: TRGS 900 Langzeit	0,87 mg/m <sup>3</sup> ; 0,2 ppm (Aerosol and vapour, may be absorbed through the skin)
90-43-7	Biphenyl-2-ol	Germany: TRGS 900 Kurzzeit	5 mg/m <sup>3</sup> (Aerosol and vapour, inhalable fraction)
		Germany: TRGS 900 Langzeit	5 mg/m <sup>3</sup> (Aerosol and vapour, inhalable fraction)

DNEL/DMEL:

Information about Triethanolamine (CAS 102-71-6):

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

DNEL, workers, dermal, systemic, long-term: 6,3 mg/kg bw/d

Information about 2-(2-Butoxyethoxy)ethanol (CAS 112-34-5):

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

DNEL, consumers, oral, systemic, long-term: 6,25 mg/kg bw/d

Information about 2-(2-Aminoethoxy)ethanol (CAS 929-06-6):

DNEL, workers, inhalative, systemic, long-term: 16,8 mg/m<sup>3</sup>

DNEL, workers, inhalative, local, long-term: 0,15 mg/m<sup>3</sup>

DNEL, workers, dermal, systemic, long-term: 4,8 mg/kg bw/d

DNEL, consumers, oral, systemic, long-term: 1,7 mg/kg bw/d

Information about Biphenyl-2-ol (CAS 90-43-7):

DNEL, workers, inhalative, systemic, long-term: 19,25 mg/m<sup>3</sup>

DNEL, workers, dermal, systemic, long-term: 21,84 mg/kg bw/d

DNEL, consumers, inhalative, systemic, long-term: 1,2 mg/m<sup>3</sup>

DNEL, consumers, dermal, systemic, long-term: 0,4 mg/kg bw/d

DNEL, consumers, oral, systemic, long-term: 0,4 mg/kg bw/d



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PNEC: Information about Triethanolamine (CAS 102-71-6):  
PNEC water (freshwater): 0,32 mg/L  
PNEC water (marine water): 0,032 mg/L  
PNEC sediment (freshwater): 1,7 mg/kg dw  
PNEC sediment (marine water): 0,17 mg/kg dw  
PNEC soil: 0,151 mg/kg dw

Information about 2-(2-Butoxyethoxy)ethanol (CAS 112-34-5):  
PNEC water (freshwater): 1 mg/L  
PNEC water (marine water): 0,1 mg/L  
PNEC sediment (freshwater): 4 mg/kg dw  
PNEC sediment (marine water): 0,4 mg/kg dw  
PNEC sewage treatment plant: 200 mg/L

Information about 2-(2-Aminoethoxy)ethanol (CAS 929-06-6):  
PNEC water (freshwater): 0,0202 mg/L  
PNEC water (marine water): 0,0202 mg/L  
PNEC sediment (freshwater): 0,945 mg/kg dw  
PNEC sediment (marine water): 0,0945 mg/kg dw  
PNEC sewage treatment plant: 28 mg/L

Information about Biphenyl-2-ol (CAS 90-43-7):  
PNEC water (freshwater): 0,0009 mg/L  
PNEC water (marine water): 0,00009 mg/L  
PNEC sediment (freshwater): 0,1284 mg/kg dw  
PNEC sewage treatment plant: 0,56 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. In case of inadequate ventilation wear respiratory protection.  
Respiratory protection in case of aerosol or vapour formation. Recommendation: Combination filtering device (EN 14387).  
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection: Protective gloves according to DIN EN ISO 374-1.  
permanent contact: Glove material: Nitrile rubber, > 0,7 mm  
Breakthrough time: > 480 min  
During splash contact: Glove material: Nitrile rubber, > 0,4 mm  
Breakthrough time: > 30 min  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to DIN EN ISO 16321-1.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:  
Do not breathe mist/vapours/spray. 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.



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### Environmental exposure controls

Refer to "6.2 Environmental precautions".

## 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
Melting point/freezing point:	No data available
Boiling point or initial boiling point and boiling range:	> 100 °C (1013 hPa)
Flammability:	This material is combustible, but will not ignite readily.
Lower and upper explosion limit:	No data available
Flash point:	> 100 °C (DIN EN ISO 2592)
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
pH:	at 20 °C, 3%: 9,2
Kinematic viscosity:	at 20 °C: approx. 10 mm <sup>2</sup> /s (DIN EN ISO 3104)
Water solubility:	at 20 °C: Miscible
Partition coefficient n-octanol/water (log value):	Not applicable
Vapour pressure:	No data available
Density:	at 15 °C: 1,056 g/mL (DIN EN ISO 12185)
Relative vapour density:	No data available
Particle characteristics:	Not applicable

### 9.2 Other information

Explosive properties:	No data available
Oxidizing characteristics:	No data available
Auto-ignition temperature:	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.



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### 10.5 Incompatible materials

No data available

### 10.6 Hazardous decomposition products

No decomposition when used properly.

Thermal decomposition: Not determined

## 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.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Skin Irrit. 2; H315 = Causes skin irritation.

Serious eye damage/irritation: Eye Dam. 1; H318 = Causes serious eye damage.

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.

Contains Biphenyl-2-ol and 2-n-Butyl-benzo[d]isothiazol-3-one. May produce an allergic reaction.

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.



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### 11.2 Information on other hazards

Endocrine disrupting properties:

None

Other information:

Information about 2-(2-Butoxyethoxy)ethanol (CAS 112-34-5):

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

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

Information about 2-(2-Aminoethoxy)ethanol (CAS 929-06-6):

LD50 Rat, oral: approx. 3.400 mg/kg (OECD 401)

LD50 Rabbit, dermal: > 3.000 mg/kg (OECD 402, no mortality occurred)

LC0 Rat, inhalative: > 8,7 mg/m<sup>3</sup> (OECD 403, saturated vapour concentration (SVC))

Information about Alcohols, C8-10, ethers with polyethylene-polypropylene glycol monobenzyl ether (CAS 68154-99-4):

ATE, dermal: 1.100 mg/kg

Information about Alcohols, C12-14 (even-numbered), ethoxylated (CAS 68439-50-9):

LD50 Rat, oral: 300 - 2.000 mg/kg

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

Information about Biphenyl-2-ol (CAS 90-43-7):

LD50 Rat, oral: 2.733 mg/kg (OECD 401)

LD50 Rat, dermal: > 2.000 mg/kg (OECD 402, no mortality occurred)

LC50 Rat, inhalative (vapour): > 36 mg/m<sup>3</sup> (OECD 403, no mortality occurred)

Information about 1,2-Ethanediamine, N,N,N',N'-tetramethyl-, polymer with 1,1'-oxybis(2-chloroethane) (CAS 31075-24-8):

LD50 Rabbit, oral: 1.951 mg/kg

LD50 Rat, dermal: > 2.000 mg/kg

LC50 Rat, inhalative (dusts/mist): 2,9 mg/L/4h

### Symptoms

After eye contact: Upon direct contact with eyes may cause burning, tearing, redness. Prolonged eye contact may damage the cornea.



## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity: Harmful to aquatic life with long lasting effects.

Information about 2-(2-Butoxyethoxy)ethanol (CAS 112-34-5):

Fish toxicity:

LC50 *Lepomis macrochirus* (Bluegill): 1.300 mg/L/96h (OECD 203)

Daphnia toxicity:

EC50 *Daphnia magna* (Big water flea): > 100 mg/L/48h (EU Method C.2)

Information about 2-(2-Aminoethoxy)ethanol (CAS 929-06-6):

Fish toxicity:

LC50 *Leuciscus idus*: > 681 mg/L/96h

Daphnia toxicity:

EC50 *Daphnia magna* (Big water flea): > 500 mg/L/48h (EU Method C.2)

Algae toxicity:

EC50 *Desmodesmus subspicatus* (green algae): 202 mg/L/72h (growth rate)

Information about Alcohols, C12–14 (even-numbered), ethoxylated (CAS 68439-50-9):

Fish toxicity:

LC50 *Cyprinus carpio* (Common Carp): 1 - 10 mg/L/96h (OECD 203)

Daphnia toxicity:

EC50 *Daphnia magna* (Big water flea): 1 - 10 mg/L/48h (OECD 202)

Algae toxicity:

EC50 *Desmodesmus subspicatus* (green algae): 1 - 10 mg/L/72h (OECD 201)

Information about 1,2-Ethanediamine, N,N,N',N'-tetramethyl-, polymer with 1,1'-oxybis(2-chloroethane) (CAS 31075-24-8):

Fish toxicity:

LC50 *Oncorhynchus mykiss*: 0,047 mg/L/96h

NOEC *Oncorhynchus mykiss*: 0,037 mg/L/96h

Daphnia toxicity:

EC50 *Daphnia magna* (Big water flea): 0,37 mg/L/48h

NOEC *Daphnia magna* (Big water flea): 0,08 mg/L/48h

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

### 12.2 Persistence and degradability

Further details: The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:

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.



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### 12.6 Endocrine disrupting properties

None

### 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: 07 06 01\* = Aqueous washing liquids and mother liquors  
\* = Evidence for disposal must be provided.

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

#### Package

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

## 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

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### 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 that cannot be assigned to any of the above storage classes

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.

Observe employment restrictions for expectant or nursing mothers.

Further regulations, limitations and legal requirements:

No data available

#### National regulations - EC member states

Volatile organic compounds (VOC):

5,7 % by weight

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



Signal word: **Danger**

Hazard statements: H318 Causes serious eye damage.  
H412 Harmful to aquatic life with long lasting effects.  
EUH208 Contains Biphenyl-2-ol and 2-n-Butyl-benzo[d]isothiazol-3-one. May produce an allergic reaction.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P280 Wear protective gloves/protective clothing/eye protection/face 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.  
P310 Immediately call a POISON CENTER/doctor.

Further regulations, limitations and legal requirements:

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

#### International Conventions

Triethanolamine: Chemical Weapons Convention (CWC): Schedule 3B (Precursors)



# Eni metalClean NR

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## Safety Data Sheet

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

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### 15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

## SECTION 16: Other information

Classification procedure: Physical hazards: on basis of test data  
Health hazards, environmental hazards: calculation method

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

H302 = Harmful if swallowed.  
H312 = Harmful in contact with skin.  
H314 = Causes severe skin burns and eye damage.  
H315 = Causes skin irritation.  
H317 = May cause an allergic skin reaction.  
H318 = Causes serious eye damage.  
H319 = Causes serious eye irritation.  
H332 = Harmful if inhaled.  
H351 = Suspected of causing cancer.  
H400 = Very toxic to aquatic life.  
H410 = Very toxic to aquatic life with long lasting effects.  
H412 = Harmful to aquatic life with long lasting effects.  
EUH208 = Contains Biphenyl-2-ol and 2-n-Butyl-benzo[d]isothiazol-3-one. May produce an allergic reaction.

Reason of change: Changes in section 1: Product identifier (UFI)  
Changes in section 2: Labelling  
Changes in section 3: Composition / Information on ingredients  
Changes in section 8: Exposure controls/personal protection  
Changes in section 9: Physical and chemical properties  
Changes in section 15: WGK  
General revision

Date of first version: 6.6.2023

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 Acute: Hazardous to the aquatic environment - acute  
Aquatic Chronic: Hazardous to the aquatic environment - chronic  
AS/NZS: Australian Standards/New Zealand Standards  
ATE: Acute toxicity estimate  
Carc.: Carcinogenicity  
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%  
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods  
EN: European Standard  
EQ: Excepted quantities  
EU: European Union  
Eye Dam.: Eye damage  
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  
IMO: International Maritime Organization  
LC0: Lethal concentration 0%  
LC50: Median lethal concentration  
LD50: Lethal dose 50%  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
M-factor: Multiplication factor  
NOEC: No Observed Effect Concentration  
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  
Skin Corr.: Skin corrosion  
Skin Irrit.: Skin irritation  
Skin Sens.: Skin sensitisation  
TLV: Threshold Limit Value  
TRGS: Technical Rules for Hazardous Substances  
UFI: Unique Formula Identifier  
vPvB: Very persistent and very bioaccumulative  
WEL: Workplace Exposure Limit  
WGK: Water risk class

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:  
<https://sumdat.net/kwuemvwi>

