



# Eni GR MU EP 0

Material number 886

## Safety Data Sheet

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

Revision date: 26.4.2024  
Version: 13.0  
Replaces version: 12.0  
Language: en-DE  
Date of print: 13.11.2024

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

### 1.1 Product identifier

Trade name: Eni GR MU EP 0

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

General use: Lubricants, greases, release products (fat)

### 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

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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)

Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling (CLP)

Hazard statements: H412 Harmful to aquatic life with long lasting effects.

Precautionary statements: P273 Avoid release to the environment.

P501 Dispose of contents/container to hazardous or special waste collection point.

#### Special labelling

EUH208 Contains Naphthenic acids, zinc salts. May produce an allergic reaction.

## 2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

The product contains no components classified as PBT or as vPvB at concentrations of 0.1% or higher.

CAS No.	Designation	PBT/vPvB	ED Human	ED Environment
128-37-0	2,6-di-tert-Butyl-p-cresol		List II	

## SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

### 3.2 Mixtures

Chemical characterisation: Mixture of the substances listed below with non-hazardous additions:

Hazardous ingredients:

Identifiers	Designation Classification	Content
REACH 01-2119555270-46-xxxx EC No. 204-881-4 CAS 128-37-0	2,6-di-tert-Butyl-p-cresol Aquatic Chronic 1; H410.  M-factors: Aquatic Chronic 1: M = 1.	< 1 %
REACH 01-2120783834-41-xxxx EC No. 234-409-2 CAS 12001-85-3	Naphthenic acids, zinc salts Eye Irrit. 2; H319. Skin Sens. 1B; H317. Aquatic Chronic 2; H411.	< 1 %

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.
In case of inhalation:	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if problems persist.
Following skin contact:	Immediately clean with water and soap followed by thorough rinsing. Take off contaminated clothing and wash it before reuse. 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. In case of troubles or persistent symptoms, 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 treatment in case of troubles. Observe risk of aspiration if vomiting occurs.



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

May cause allergic reactions in already sensitized persons.  
Respiratory complaints, headache, discomfort, dizziness.

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

Treat symptomatically.  
Symptoms can occur only after several hours.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media:

Extinguishing powder, sand, foam, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Water.

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

May form dangerous gases and vapours in case of fire.  
Furthermore, there may develop: Carbon monoxide and carbon dioxide.

### 5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information:

Do not inhale explosion and combustion gases. Cool exposed containers with water spray, but avoid contact of the substance with water. Move undamaged containers from immediate hazard area if it can be done safely.  
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## 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.  
If possible, eliminate leakage. Provide adequate ventilation.  
Wear appropriate protective equipment. Keep unprotected people away.  
Take off contaminated clothing and wash it before reuse.  
Wear breathing apparatus if exposed to vapours/dusts/aerosols.

### 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

Wipe up with absorbent material (eg. cloth, fleece). Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

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.

Clean contaminated articles and floor according to the environmental legislation.

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. 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. Do not get in eyes, on skin, or on clothing. When handling large quantities, supply emergency spray.

Precautions against fire and explosion:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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 frost, heat and sunlight. Store containers in upright position.

Recommended storage temperature: 5 - 40 °C.

Hints on joint storage:

Do not store together with: Oxidizing agents, acids.

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.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
128-37-0	2,6-di-tert-Butyl-p-cresol	Germany: TRGS 900 Kurzzeit	40 mg/m <sup>3</sup> (Aerosol and vapour, inhalable fraction)
		Germany: TRGS 900 Langzeit	10 mg/m <sup>3</sup> (Aerosol and vapour, inhalable fraction)

DNEL/DMEL:

Information about 2,6-di-tert-Butyl-p-cresol (CAS 128-37-0):

 DNEL, workers, inhalative, systemic, long-term: 1,76 mg/m<sup>3</sup>

DNEL, workers, dermal, systemic, long-term: 0,5 mg/kg bw/d

 DNEL, consumers, inhalative, systemic, long-term: 0,435 mg/m<sup>3</sup>

DNEL, consumers, dermal, systemic, long-term: 0,25 mg/kg bw/d

DNEL, consumers, oral, systemic, long-term: 0,25 mg/kg bw/d

Information about Naphthenic acids, zinc salts (CAS 12001-85-3):

 DNEL, workers, inhalative, systemic, long-term: 1,18 mg/m<sup>3</sup>

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

 DNEL, consumers, inhalative, systemic, long-term: 0,29 mg/m<sup>3</sup>

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

DNEL, consumers, oral, systemic, long-term: 0,17 mg/kg bw/d

PNEC:

Information about 2,6-di-tert-Butyl-p-cresol (CAS 128-37-0):

PNEC, water (freshwater): 0,199 µg/L

PNEC, water (freshwater, intermittent release): 1,99 µg/L

PNEC, water (marine water): 0,02 µg/L

PNEC, sewage treatment plant: 0,017 mg/L

PNEC, sediment (freshwater): 0,458 mg/kg dw

PNEC, sediment (marine water): 0,046 mg/kg dw

PNEC, soil: 0,054 mg/kg dw

PNEC, Secondary Poisoning: 16,67 mg/kg Food

### 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:

In case of inadequate ventilation wear 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.



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Hand protection:	Protective gloves according to DIN EN ISO 374:1. Glove material: Nitrile rubber. Layer thickness: 0,12 mm. Breakthrough time: 4h. Observe glove manufacturer's instructions concerning penetrability and breakthrough time. Unsuitable material: Butyl caoutchouc (butyl rubber), chloroprene rubber, natural rubber (Caoutchouc). Protect skin by using skin protective cream.
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 mist/vapours/spray. Take off contaminated clothing and wash it before reuse. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. When handling large quantities, supply emergency spray.

### 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:	Form: Pasty Beige
Odour:	Characteristic
Odour threshold:	No data available
Melting point/freezing point:	> 170 °C
Initial boiling point and boiling range:	> 250 °C
Flammability:	This material is combustible, but will not ignite readily.
Upper/lower flammability or explosive limits:	No data available
Flash point/flash point range:	200 °C
Decomposition temperature:	No data available
pH:	No data available
Viscosity, kinematic:	No data available
Solubility:	No data available
Partition coefficient: n-octanol/water:	5,1 log K(o/w) (2,6-di-tert-Butyl-p-cresol) Based on the n-octanol/water partition coefficient accumulation in organisms is possible. at 20 °C: 0,8 log K(o/w) (pH = 7; Naphthenic acids, zinc salts) Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.
Vapour pressure:	No data available
Density:	at 20 °C: 0,93 - 1,00 g/mL
Vapour density:	No data available
Particle characteristics:	Not applicable



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### 9.2 Other information

Explosive properties:	No data available
Oxidizing characteristics:	No data available
Auto-ignition temperature:	No data available
Evaporation rate:	No data available
Additional information:	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

Protect from frost, heat and sunlight.  
Protect from moisture contamination.

### 10.5 Incompatible materials

Oxidizing agents, acids.

### 10.6 Hazardous decomposition products

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

Thermal decomposition: No data available



## 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.  
May be harmful if inhaled.
- Skin corrosion/irritation: Based on available data, the classification criteria are not met.
- Serious eye damage/irritation: Based on available data, the classification criteria are not met.
- Sensitisation to the respiratory tract: Lack of data.
- Skin sensitisation: Based on available data, the classification criteria are not met.  
Contains Naphthenic acids, zinc salts. 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.

### 11.2 Information on other hazards

- Endocrine disrupting properties: This product contains a substance that has endocrine disrupting properties with respect to humans.
- Other information: Information about 2,6-di-tert-Butyl-p-cresol (CAS 128-37-0):  
LD50 Rat, oral: > 6.000 mg/kg (OECD 401)  
LD50 Rat, dermal: > 2.000 mg/kg (OECD 402)
- Information about Naphthenic acids, zinc salts (CAS 12001-85-3):  
LD50 Rat, oral: > 2.000 mg/kg (OECD 423)





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## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity: Harmful to aquatic life with long lasting effects.  
Information about 2,6-di-tert-Butyl-p-cresol (CAS 128-37-0):  
Fish toxicity:  
LC50: 0,199 mg/L/96h (QSAR)  
NOEC Oryzias latipes (Ricefish): 0,053 mg/L/30d (OECD 210)  
Daphnia toxicity:  
EC50 Daphnia magna (Big water flea): 0,48 mg/L/48h (OECD 202)  
NOEC Daphnia magna (Big water flea): 0,15 mg/L/48h (OECD 202)  
Algae toxicity:  
EC50: 0,758 mg/L/96h (QSAR)  
Information about Naphthenic acids, zinc salts (CAS 12001-85-3):  
Fish toxicity:  
LL50 Cyprinus carpio (Common Carp): > 100 mg/L/96h (OECD 203)  
Daphnia toxicity:  
EL50 Daphnia magna (Big water flea): 35 mg/L/48h (OECD 202)  
Algae toxicity:  
EL50 Selenastrum capricornutum (green algae): 4 mg/L/72h (OECD 201)

Water Hazard Class: 1 = slightly hazardous to water (Self-classification (mixture).)

### 12.2 Persistence and degradability

Further details: No data available

### 12.3 Bioaccumulative potential

Bioconcentration factor (BCF):  
Information about Naphthenic acids, zinc salts (CAS 12001-85-3):  
69,5

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

The product contains no components classified as PBT or as vPvB at concentrations of 0.1% or higher.

### 12.6 Endocrine disrupting properties

None

### 12.7 Other adverse effects

General information: Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.



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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Waste key number: 12 01 12\* = Spent waxes and fats  
\* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation. Do not allow to enter into ground-water, surface water or drains.

#### Package

Waste key number: 15 01 10\* = Packaging containing residues of or contaminated by dangerous substances  
\* = Evidence for disposal must be provided.

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

### 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: 1 = slightly 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:

No data available

#### National regulations - EC member states

Volatile organic compounds (VOC):

< 3 % by weight

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

Hazard statements: H412 Harmful to aquatic life with long lasting effects.

EUH208 Contains Naphthenic acids, zinc salts. May produce an allergic reaction.

Precautionary statements: not applicable

Further regulations, limitations and legal requirements:

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

H317 = May cause an allergic skin reaction.

H319 = Causes serious eye irritation.

H410 = Very toxic to aquatic life with long lasting effects.

H411 = Toxic to aquatic life with long lasting effects.

H412 = Harmful to aquatic life with long lasting effects.

EUH208 = Contains Naphthenic acids, zinc salts. May produce an allergic reaction.

Reason of change:

Changes in section 3: Composition / Information on ingredients

Changes in section 12: Endocrine disrupting properties, results of PBT and vPvB assessment

Changes in section 15: VOC

General revision

Date of first version:

22.6.2022

Department issuing data sheet:

see section 1: Department responsible for information



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### Abbreviations and acronyms:

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  
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%  
EL50: Effective loading rate 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  
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  
QSAR: Quantitative Structure-Activity Relationship  
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail  
Skin Sens.: Skin sensitisation  
TLV: Threshold Limit Value  
TRGS: Technical Rules for Hazardous Substances  
VOC: Volatile Organic Compounds  
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/zdt4gzp5>

