



SAFETY DATA SHEET

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

Eni GR MU EP 2

Material number 888

Revision date: 7.12.2023

Version: 3.1

Replaces version: 3.0

Language: en-DE

Date of print: 19.12.2023

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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 2

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: Eni Schmiertechnik GmbH

Street/POB-No.: Paradiesstraße 14

Postal Code, city: 97080 Würzburg
Germany

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Department responsible for information:

Application Engineering & Product Management (AEPM)

Telephone: +49 (0)931-90098-0

E-mail: technik.wuerzburg@eni.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)

This mixture is classified as not hazardous.

2.2 Label elements

Labelling (CLP)

Hazard statements: not applicable

Precautionary statements: not applicable

Special labelling

EUH208 Contains Naphthenic acids, zinc salts and Polysulfides, di-tert-dodecyl. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

No data available

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 01-2119540516-41-xxxx EC No. 270-335-7 CAS 68425-15-0	Polysulfides, di-tert-dodecyl Skin Sens. 1B; H317.	< 1 %
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.

Additional information: The highly refined mineral oil contains <3% (w/w) DMSO extract, according to IP346.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:	Take off contaminated clothing and wash it before reuse. In the event of cardiac arrest immediately perform cardiopulmonary resuscitation.
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:	After contact with skin, wash immediately with soap and plenty of water. 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. Do not induce vomiting. Danger of aspiration! Never give anything by mouth to an unconscious person. Seek medical aid in case of troubles.

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
It can take hours before symptoms of poisoning show up following exposure.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Foam, extinguishing powder, carbon dioxide, sand.

Extinguishing media which must not be used for safety reasons:

Water

5.2 Special hazards arising from the substance or mixture

Combustible.
May form dangerous gases and vapours in case of fire.
Furthermore, there may develop: Nitrogen oxides (NOx), 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.



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Additional information: 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. Provide adequate ventilation. Remove all sources of ignition. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Avoid contact with skin, eyes, and clothing.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal. Make sure spills can be contained, e.g. in sump pallets or kerbed areas. cover drains. 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. Avoid contact with skin, eyes, and clothing.

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. Store only in original container. Make sure spills can be contained, e.g. in sump pallets or kerbed areas. Protect from heat and direct sunlight. Recommended storage temperature: 0 - 40 °C storage stability: >= 6 months.

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, 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
68425-15-0	Polysulfides, di-tert-dodecyl	Germany: TRGS 900 Kurzzeit	20 mg/m ³ (respirable fraction)
		Germany: TRGS 900 Langzeit	5 mg/m ³ (respirable fraction)

DNEL/DMEL: Information about Polysulfides, di-tert-dodecyl:
DNEL workers, long-term, systemic, inhalative: 32,9 mg/m³
DNEL workers, long-term, systemic, dermal: 46,7 mg/kg bw/d
Information about Naphthenic acids, zinc salts:
DNEL workers, long-term, systemic, inhalative: 1,18 mg/m³
DNEL workers, long-term, systemic, dermal: 3,3 mg/kg bw/d

PNEC: Information about Polysulfides, di-tert-dodecyl:
PNEC sediment (freshwater): 3,85 mg/kg
PNEC sediment (marine water): 0,385 mg/kg
PNEC sewage treatment plant: 1 g/L

8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

Personal protection equipment

Occupational exposure controls

Respiratory protection: In case of inadequate ventilation wear respiratory protection.
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.

Hand protection: Protective gloves according to DIN EN 374.
Glove material: nitrile rubber (NBR)
Breakthrough time: > 240 min
Layer thickness: 0,12 mm
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
Unsuitable material: butyl caoutchouc (butyl rubber), natural rubber (Caoutchouc)/natural latex, polychloroprene/chloroprene rubber.

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. Avoid contact with skin, eyes, and clothing.
Do not eat, drink or smoke when using this product.
Wash hands thoroughly after handling.

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
Form: pasty
Colour: beige



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Odour:	Characteristic
Odour threshold:	No data available
Melting point/freezing point:	> 175 °C
Initial boiling point and boiling range:	> 250 °C
Flammability:	No data available
Upper/lower flammability or explosive limits:	LEL (Lower Explosion Limit): Not determined UEL (Upper Explosive Limit): Not determined
Flash point/flash point range:	> 200 °C
Auto-ignition temperature:	> 300 °C
Decomposition temperature:	No data available
pH:	Not determined
Viscosity, kinematic:	Not determined
Solubility:	Not determined
Partition coefficient: n-octanol/water:	No data available
Vapour pressure:	Not determined
Density:	at 25 °C: approx. 0,95 g/cm ³ (DIN 51757)
Vapour density:	No data available
Particle characteristics:	Not applicable

9.2 Other information

Explosive properties:	Product is not explosive.
Oxidizing characteristics:	Not oxidising
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.

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



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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.

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

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

Contains Naphthenic acids, zinc salts and Polysulfides, di-tert-dodecyl. 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: No data available

Symptoms

Respiratory complaints, headache, dizziness, nausea.

SECTION 12: Ecological information

12.1 Toxicity

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

Partition coefficient: n-octanol/water:

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Endocrine disrupting properties

No data available



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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.

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: Evidence for disposal must be provided. Send to a hazardous waste incinerator facility under observation of official regulations.

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. Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself. Evidence for disposal must be provided.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID, ADN, IMDG, IATA-DGR:
not applicable

14.2 UN proper shipping name

ADR/RID, ADN, IMDG, IATA-DGR:
Not restricted

14.3 Transport hazard class(es)

ADR/RID, ADN, IMDG, IATA-DGR:
not applicable

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

No dangerous good in sense of these transport regulations.

14.7 Maritime transport in bulk according to IMO instruments

No data available



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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: 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:

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

National regulations - EC member states

Volatile organic compounds (VOC):

< 3 % by weight

Labelling of packaging with <= 125mL content

Hazard statements: EUH208 Contains Naphthenic acids, zinc salts and Polysulfides, di-tert-dodecyl. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

Precautionary statements: not applicable

Further regulations, limitations and legal requirements:

No data available

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.

H411 = Toxic to aquatic life with long lasting effects.

EUH208 = Contains Naphthenic acids, zinc salts and Polysulfides, di-tert-dodecyl. May produce an allergic reaction.

EUH210 = Safety data sheet available on request.

Reason of change: Changes in section 1: Material number

Date of first version: 2.2.2022

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
- 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
- LEL: Lower Explosion Limit
- MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
- 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 Sens.: Skin sensitisation
- TRGS: Technical Rules for Hazardous Substances
- vPvB: Very persistent and very bioaccumulative

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/di71qn5>

