

Material number 700

2020/878

Safety Data Sheet

 Revision date:
 20.3.2024

 Version:
 6.0

 Replaces version:
 5.3

 Language:
 en-DE

 Date of print:
 5.4.2024

Page: 1 of 13

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

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

1.1 Product identifier

Trade name: Eni Ulex 100

UFI: 9J40-00DM-W003-WQ1A

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)

Skin Sens. 1; H317 May cause an allergic skin reaction.

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

2.2 Label elements

Labelling (CLP)



Signal word: Warning

Hazard statements: H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.



Material number 700

Revision date: 20.3.2024
Version: 6.0
Replaces version: 5.3
Language: en-DE
Date of print: 5.4.2024

Safety Data Sheet

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

Page: 2 of 13

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P261 Avoid breathing mist/vapours/spray.
P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection.

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

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

Special labelling

Text for labelling: Contains:

3-lodo-2-propynyl butylcarbamate 1,2-Benzisothiazol-3(2H)-one 2-Methyl-2H-isothiazol-3-one

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 a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria. The product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: A mixture of base oils and additives

printed by Eni Schmiertechnik GmbH

with Qualisys SUMDAT



Material number 700

Revision date: 20.3.2024
Version: 6.0
Replaces version: 5.3
Language: en-DE

Date of print:

Safety Data Sheet

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

Page: 3 of 13

5.4.2024

Hazardous ingredients:

Identifiers	Designation Classification	Content
REACH 01-2119489407-26-xxxx EC No. 500-236-9 CAS 68920-66-1	Alcohols, C16-18, ethoxylated Skin Irrit. 2; H315. Aquatic Chronic 2; H411.	2,5 - 5 %
REACH 01-2119475104-44-xxxx EC No. 203-961-6 CAS 112-34-5	2-(2-Butoxyethoxy)ethanol Eye Irrit. 2; H319.	1 - 5 %
REACH 01-2119527859-22-xxxx EC No. 271-781-5 CAS 68608-26-4	Sulfonic acids, petroleum, sodium salts Eye Irrit. 2; H319.	1 - 5 %
EC No. 259-627-5 CAS 55406-53-6	3-lodo-2-propynyl butylcarbamate Acute Tox. 4; H302. Acute Tox. 3; H331. Eye Dam. 1; H318. Skin Sens. 1; H317. STOT RE 1; H372. Aquatic Acute 1; H400. Aquatic Chronic 1; H410. M-factors: Aquatic Acute 1: M = 10. Aquatic Chronic 1: M = 1.	< 0,25 %
REACH 01-2120761540-60-xxxx EC No. 220-120-9 CAS 2634-33-5	1,2-Benzisothiazol-3(2H)-one < 0,05 % Acute Tox. 4; H302. Skin Irrit. 2; H315. Eye Dam. 1; H318. Skin Sens. 1; H317. Aquatic Acute 1; H400. Specific concentration limits (SCL): Skin Sens. 1; H317: C ≥ 0,05 %	
EC No. 220-239-6 CAS 2682-20-4	2-Methyl-2H-isothiazol-3-one Acute Tox. 3; H301. Acute Tox. 3; H311. Acute Tox. 2; H330. Skin Corr. 1B; H314. Eye Dam. 1; H318. Skin Sens. 1A; H317. Aquatic Acute 1; H400. Aquatic Chronic 1; H410. (EUH071). Specific concentration limits (SCL): Skin Sens. 1A; H317: C ≥ 0,0015 % M-factors: Aquatic Acute 1: M = 10. Aquatic Chronic 1: M = 1.	< 0,05 %

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: If medical advice is needed, have product container or label at hand.

Take off contaminated clothing and wash it before reuse.



Material number 700

Revision date: 20.3.2024
Version: 6.0
Replaces version: 5.3
Language: en-DE
Date of print: 5.4.2024

Safety Data Sheet

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

Page: 4 of 13

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. 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

May cause an allergic skin reaction.

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, extinguishing powder, foam and 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: nitrogen oxides (NOx), smoke, 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: Do not inhale explosion and combustion gases. Remove persons to safety.

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.



Material number 700

Safety Data Sheet

Revision date: 20.3.2024
Version: 6.0
Replaces version: 5.3
Language: en-DE
Date of print: 5.4.2024

Page: 5 of 13

SECTION 6: Accidental release measures

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

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. 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 sources of ignition - No smoking.

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: 12 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



Material number 700

Revision date: 20.3.2024
Version: 6.0
Replaces version: 5.3
Language: en-DE
Date of print: 5.4.2024

Safety Data Sheet

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

Page: 6 of 13

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	Туре	Limit value
112-34-5	2-(2- Butoxyethoxy) ethanol	Europe: IOELV: STEL	101,2 mg/m³; 15 ppm
		Europe: IOELV: TWA Germany: TRGS 900 Kurzzeit	67,5 mg/m³; 10 ppm 100,5 mg/m³; 15 ppm (Aerosol and vapour)
		Germany: TRGS 900 Langzeit	67 mg/m³; 10 ppm (Aerosol and vapour)
55406-53-6	3-lodo-2- propynyl butylcarbamate	Germany: TRGS 900 Kurzzeit	0,106 mg/m³; 0,01 ppm (Aerosol and vapour)
	•	Germany: TRGS 900 Langzeit	0,058 mg/m³; 0,005 ppm (Aerosol and vapour)

DNEL/DMEL: Information about Alcohols, C16-18, ethoxylated:

DNEL workers, dermal, long-term, systemic: 2.080 mg/kg/bw/d DNEL workers, inhalative, long-term, systemic: 294 mg/m³

Information about 2-(2-Butoxyethoxy)ethanol:

DNEL workers, dermal, long-term, systemic: 20 mg/kg/bw/d DNEL workers, inhalative, long-term, systemic: 67,5 mg/m³

PNEC: Information about alcohols, C16-18, ethoxylated:

PNEC water (freshwater): 0,002 mg/L PNEC water (marine water): 0,002 mg/L PNEC sediment (freshwater): 6,33 mg/kg

PNEC soil: 1 mg/kg

PNEC sewage treatment plant: 10.000 mg/L Information about 2-(2-Butoxyethoxy)ethanol:

PNEC water (freshwater): 1 mg/L
PNEC water (marine water): 0,1 mg/L
PNEC sediment (freshwater): 4 mg/kg
PNEC sediment (marine water): 0,4 mg/kg
PNEC sewage treatment plant: 200 mg/L

8.2 Exposure controls

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



Material number 700

Revision date: 20.3.2024
Version: 6.0
Replaces version: 5.3
Language: en-DE
Date of print: 5.4.2024

Safety Data Sheet

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

Page: 7 of 13

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. If the concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection: Protective gloves according to DIN EN 374.

During full contact:

Glove material: Nitrile rubber, polychloroprene, chloroprene rubber

Breakthrough time: > 480 min Layer thickness: >= 0,7 mm During splash contact:

Glove material: Nitrile rubber, polychloroprene, chloroprene rubber

Breakthrough time: > 30 min Layer thickness: >= 0,4 mm

Unsuitable material: Polyvinyl alcohol

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 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.

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: light brown Odour: Characteristic Odour threshold: No data available Melting point/freezing point: No data available Initial boiling point and boiling range: > 100 °C (1013 hPa) Flammability: No data available Upper/lower flammability or explosive limits: No data available

Flash point/flash point range: > 100 °C (DIN EN ISO 2592)

Decomposition temperature: No data available

pH: at 20 °C, 5%: 8,9 (DIN 51369)

Viscosity, kinematic: at 20 °C: approx. 120 mm²/s (DIN EN ISO 3104)

Water solubility: Miscible

Partition coefficient: n-octanol/water: Not applicable
Vapour pressure: No data available

Density: at 15 °C: 0,909 g/mL (DIN EN ISO 12185)



Material number 700

Revision date: 20.3.2024 Version: Replaces version: 5.3 Language: en-DE Date of print: 5.4.2024

Page:

8 of 13

Safety Data Sheet

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

2020/878

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 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

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



Material number 700

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: 5.4.2024

Page: 9 of 13

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

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

Skin sensitisation: Skin Sens. 1; H317 = May cause an allergic skin reaction.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data. Specific target organ toxicity (repeated exposure): Lack of data.

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

11.2 Information on other hazards

Endocrine disrupting properties:

No data available
No data available

SECTION 12: Ecological information

12.1 Toxicity

Other information:

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

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

12.2 Persistence and degradability

Further details: Poorly eliminated from water

Product is partially biodegradable.

12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient: n-octanol/water:

Not applicable

12.4 Mobility in soil

No data available



Material number 700

Revision date: 20.3.2024
Version: 6.0
Replaces version: 5.3
Language: en-DE
Date of print: 5.4.2024

Safety Data Sheet

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

Page: 10 of 13

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

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: 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.

Package

Recommendation: Dispose of waste according to applicable legislation.

Handle contaminated packages in the same way as the substance itself.

Empty containers may contain flammable product residues. Do not cut, weld, bore, burn or incinerate emptied containers unless they have been cleaned and declared safe. Empty containers should be disposed of in accordance with local regulations.

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



Material number 700

Revision date: 20.3.2024
Version: 6.0
Replaces version: 5.3
Language: en-DE
Date of print: 5.4.2024

Safety Data Sheet

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

Page: 11 of 13

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:

Equipment necessary:

PF

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. I Information on working limitations:

Observe employment restrictions for young people.

Further regulations, limitations and legal requirements:

The product is subject to the restrictions on use according to TRGS 611.

National regulations - EC member states

Volatile organic compounds (VOC):

2,7 % by weight

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.

printed by Eni Schmiertechnik GmbH

with Qualisys SUMDAT



Material number 700

Revision date: 20.3.2024
Version: 6.0
Replaces version: 5.3
Language: en-DE
Date of print: 5.4.2024

Safety Data Sheet

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

Page: 12 of 13

SECTION 16: Other information

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

H301 = Toxic if swallowed.

H302 = Harmful if swallowed.

H311 = Toxic 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.

H330 = Fatal if inhaled.

H331 = Toxic if inhaled.

H372 = Causes damage to organs through prolonged or repeated exposure.

H400 = Very toxic to aquatic life.

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.

EUH071 = Corrosive to the respiratory tract.

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

General revision

Date of first version: 1.4.2022

Department issuing data sheet:

see section 1: Department responsible for information

printed by Eni Schmiertechnik GmbH

with Qualisys SUMDAT



Material number 700

Revision date: 20.3.2024
Version: 6.0
Replaces version: 5.3
Language: en-DE
Date of print: 5.4.2024

Safety Data Sheet

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

Page: 13 of 13

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

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 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

MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships

M-factor: Multiplication factor

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

STOT RE: Specific target organ toxicity - repeated exposure

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/ykryekn0