



# SAFETY DATA SHEET

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

## Eni Arnica Extra Plus 68

Material number 665

Revision date: 12.10.2023

Version: 2.3

Replaces version: 2.2

Language: en-DE

Date of print: 31.10.2023

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

#### 1.1 Product identifier

Trade name: Eni Arnica Extra Plus 68

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

General use: Hydraulic oil

#### 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

WWW: [www.enischmiertechnik.de](http://www.enischmiertechnik.de)

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Application Engineering & Product Management (AEPM)

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

E-mail: [technik.wuerzburg@eni.com](mailto: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 Dialkyldithiophosphate ester. 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:

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.



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### SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

#### 3.2 Mixtures

Chemical characterisation: A mixture of esters (readily biodegradable) with additives

Hazardous ingredients:

| Identifiers  | Designation<br>Classification   | Content |
|--|---|---------|
| REACH 01-2119658068-31-xxxx<br>EC No. 434-070-2<br>CAS 268567-32-4 | Dialkyldithiophosphate ester<br>Eye Dam. 1; H318. Skin Sens. 1B; H317. Aquatic Chronic 3; H412. | < 1 %   |

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

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

In case of inhalation: Remove person to fresh air and keep comfortable for breathing. In the event of discomfort seek medical treatment.

Following skin contact: Wash with plenty of water/soap. 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 thoroughly with water. Never give anything by mouth to an unconscious person. Do not induce vomiting. 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.

#### 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, alcohol resistant foam, extinguishing powder, 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

Combustible.

May form dangerous gases and vapours in case of fire.

Furthermore, there may develop: phosphorus oxides, sulphur oxides, 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:

Cool endangered containers with water jetspray. Do not allow water used to extinguish fire to enter drains, ground or waterways.



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### SECTION 6: Accidental release measures

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

Provide adequate ventilation. Avoid breathing mist/vapours/spray.  
Avoid contact with skin and eyes. Take off contaminated clothing and wash it before reuse.  
Wear appropriate protective equipment.

#### 6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains. If necessary notify appropriate authorities.

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

Larger quantities to be stemmed and pumped into tanks.  
Stop leak if safe to do so.  
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal.  
Treat the recovered material as prescribed in the section on waste disposal.

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. Avoid generation of vapours/aerosols. Avoid breathing mist/vapours/spray.  
Avoid contact with skin and eyes. Take off contaminated clothing and wash it before reuse.  
Wear appropriate protective equipment.  
When using do not eat, drink or smoke. Wash hands before breaks and after work.  
Take care of instructions on label.  
Work place should be equipped with a shower and an eye rinsing apparatus.

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.  
Store containers in upright position.

Hints on joint storage:

Keep away from food, drink and animal feedingstuffs.  
Do not store together with: strong oxidizing agents, strong acids, strong bases.

Storage class:

10 = Combustible liquids, unless storage class 3

#### 7.3 Specific end use(s)

No information available.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Additional information: Contains no substances with occupational exposure limit values.



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### 8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area. Avoid generation of vapours/aerosols.

### Personal protection equipment

#### Occupational exposure controls

|  |   |
|--|---|
| Respiratory protection:                  | In case of inadequate ventilation wear respiratory protection.<br>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.<br>Glove material: Nitrile rubber - Layer thickness $\geq 0,38$ mm.<br>Breakthrough time: $\geq 480$ min.<br>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: | Avoid breathing mist/vapours/spray.<br>Avoid contact with skin and eyes. Take off contaminated clothing and wash it before reuse.<br>When using do not eat, drink or smoke. Wash hands before breaks and after work.<br>Work place should be equipped with a shower and an eye rinsing apparatus. |

### 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 yellow   |
| Odour:  | Characteristic   |
| Odour threshold:                              | No data available  |
| Melting point/freezing point:                 | No data available  |
| Initial boiling point and boiling range:      | Not applicable   |
| Flammability:                                 | No data available  |
| Upper/lower flammability or explosive limits: | LEL (Lower Explosion Limit): Not applicable<br>UEL (Upper Explosive Limit): Not applicable |
| Flash point/flash point range:                | 280 °C   |
| Decomposition temperature:                    | No data available  |
| pH:   | Not applicable   |
| Viscosity, kinematic:                         | at 40 °C: 68 mm <sup>2</sup> /s  |
| Water solubility:                             | Insoluble  |
| Partition coefficient: n-octanol/water:       | Not applicable   |
| Vapour pressure:                              | Not applicable   |
| Density:                                      | at 15 °C: 0,91 g/mL  |
| Vapour density:                               | Not applicable   |
| 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:          | Not applicable    |



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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 dangerous reactions with proper and specified storage and handling.

### 10.4 Conditions to avoid

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

### 10.5 Incompatible materials

Strong oxidizing agents, strong acids, strong bases.

### 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.

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 Dialkyldithiophosphate ester. 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: No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity: Information about Dialkyldithiophosphate ester:  
Fish toxicity:  
LC50 Danio rerio (zebrafish): 38 mg/L/96h (OECD 203)  
Daphnia toxicity:  
EC50 Daphnia magna (Big water flea): 53 mg/L/48h (OECD 202)  
Algae toxicity:  
EC50 Desmodesmus subspicatus (green algae): 79 mg/L/72h (OECD 201)  
Water Hazard Class: 1 = slightly hazardous to water (Self-classification (mixture).)

### 12.2 Persistence and degradability

Further details: Information about Dialkyldithiophosphate ester:  
Biodegradability: <10 % (OECD 301 B), not easily degradable.

### 12.3 Bioaccumulative potential

Bioconcentration factor (BCF): Dialkyldithiophosphate ester: < 10 (OECD 305)

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

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

### 12.6 Endocrine disrupting properties

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: 13 01 12\* = Readily biodegradable hydraulic oils  
\* = 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

Recommendation: 15 01 02 Plastic packaging  
15 01 04 metallic packaging  
Dispose of waste according to applicable legislation. Non-contaminated packages may be recycled.  
Handle contaminated packages in the same way as the substance itself.



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### 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

### 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

Further regulations, limitations and legal requirements:

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

##### National regulations - EC member states

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

Hazard statements: EUH208 Contains Dialkyldithiophosphate ester. 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.



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### SECTION 16: Other information

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

H317 = May cause an allergic skin reaction.

H318 = Causes serious eye damage.

H412 = Harmful to aquatic life with long lasting effects.

EUH208 = Contains Dialkyldithiophosphate ester. May produce an allergic reaction.

EUH210 = Safety data sheet available on request.

Reason of change: Changes in section 2.3: Endocrine disrupting properties, results of PBT and vPvB assessment  
Changes in section 9: Physical and chemical properties  
General revision

Date of first version: 13.7.2022

Department issuing data sheet: see section 1: Department responsible for information

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%  
EN: European Standard  
EQ: Excepted quantities  
EU: European Union  
Eye Dam.: Eye damage  
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  
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/5vzvvrmb>

