

## Safety data sheet

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BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 06.03.2023 Version: 6.0

Date previous version: not applicable Previous version: none

Date / First version: 06.03.2023 Product: **Lutavit® A 500 Plus** 

(ID no. 30040362/SDS\_GEN\_DE/EN)

Date of print 22.10.2025

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

1.1. Product identifier

### Lutavit® A 500 Plus

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

Relevant identified uses: feed additive(s)

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

Company:
BASF SE
67056 Ludwigshafen
GERMANY
Operating Division Nutrition and Health

Telephone: +49 621 60-48434

E-mail address: EN-global-safety-data@basf.com

### 1.4. Emergency telephone number

International emergency number: Telephone: +49 180 2273-112

to Regulation (EC) No 1907/2006.

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### **SECTION 2: Hazards Identification**

### 2.1. Classification of the substance or mixture

For the classification of the mixture the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, on basis of test results and after evaluation of experts. The methodologies used are mentioned at the respective test results.

### According to Regulation (EC) No 1272/2008 [CLP]

Repr. 1B H360D May damage the unborn child.

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

For the classifications not written out in full in this section the full text can be found in section 16.

### 2.2. Label elements

According to Regulation (EC) No 1272/2008 [CLP]

Pictogram:



Signal Word:

Danger

Hazard Statement:

H360D May damage the unborn child.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280 Wear protective gloves, protective clothing and eye protection or face

protection.

P273 Avoid release to the environment.
P201 Obtain special instructions before use.

Precautionary Statements (Response):

P308 + P313 IF exposed or concerned: Get medical attention.

Precautionary Statements (Storage):
P405 Store locked up.
Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste

collection point.

Hazard determining component(s) for labelling: Retinyl acetate

to Regulation (EC) No 1907/2006.

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#### 2.3. Other hazards

### According to Regulation (EC) No 1272/2008 [CLP]

The product is under certain conditions capable of dust explosion.

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### **SECTION 3: Composition/Information on Ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

### Chemical nature

Preparation based on:Retinyl acetate in a matrix of:carbohydrates, Gelatins

### Regulatory relevant ingredients

Retinyl acetate

Content (W/W): >= 20 % - < 25 % Repr. 1B (unborn child)
CAS Number: 127-47-9 Aquatic Chronic 4
EC-Number: 204-844-2 H360D, H413

REACH registration number: 01-

2119480411-46

ethoxyquin (ISO)

Content (W/W): >= 3 % - < 5 % Acute Tox. 4 (oral)
CAS Number: 91-53-2 Aquatic Chronic 2
EC-Number: 202-075-7 H302, H411

INDEX-Number: 613-014-00-2

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

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### **SECTION 4: First-Aid Measures**

### 4.1. Description of first aid measures

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

On skin contact:

Immediately wash thoroughly with soap and water, seek medical attention.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

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

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

### **SECTION 5: Fire-Fighting Measures**

### 5.1. Extinguishing media

Suitable extinguishing media:

water spray, foam, dry powder, carbon dioxide

Unsuitable extinguishing media for safety reasons:

water jet

Additional information:

Avoid whirling up the material/product because of the danger of dust explosion.

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

Endangering substances: harmful vapours, carbon oxides

Advice: The substances/groups of substances mentioned can be released in case of fire. Dust explosion hazard.

### 5.3. Advice for fire-fighters

Special protective equipment:

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Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Cool endangered containers with water-spray.

### **SECTION 6: Accidental Release Measures**

Dust can form an explosive mixture with air.

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

Use personal protective clothing. Information regarding personal protective measures, see section 8. Avoid dust formation. Ensure adequate ventilation. Do not breathe dust. Avoid contact with the skin, eyes and clothing.

### 6.2. Environmental precautions

Do not discharge into drains/surface waters/groundwater.

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

For small amounts: Contain with dust binding material and dispose of.

For large amounts: Sweep/shovel up. Collect waste in suitable containers, which can be labeled and sealed.

Avoid raising dust. Dispose of absorbed material in accordance with regulations. Cleaning operations should be carried out only while wearing breathing apparatus.

### 6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

### **SECTION 7: Handling and Storage**

### 7.1. Precautions for safe handling

Avoid dust formation. Provide exhaust ventilation if dust is formed. Avoid contact with the skin, eyes and clothing.

Protection against fire and explosion:

Avoid dust formation. The product is capable of dust explosion. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy. Use explosion-proof apparatus and fittings.

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### 7.2. Conditions for safe storage, including any incompatibilities

Suitable materials for containers: High density polyethylene (HDPE), Low density polyethylene (LDPE)

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place. Protect from air.

Storage class according to TRGS 510 (originally VCI, Germany): (6.1C) Combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects

### 7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

### **SECTION 8: Exposure Controls/Personal Protection**

### 8.1. Control parameters

Components with occupational exposure limits

The nuisance dust limit value is to be kept.

The surveillance of the workplace by exposure measurements may be necessary, in order to prove the efficiency of safety measures, for example ventilation or the need of respiratory protection. Since this requires a specific competency, only accredited laboratories should be contracted. Regarding suitable methods to assess inhalation exposure, the European Standards EN 482, 689 and 14042 are to be considered. In addition, the TRGS 402 has to be observed in Germany.

9005-25-8: Starch

Short Term Exposure Classification: (TRGS 900 (DE)), Inhalable fraction

Category II: Substances with a resorptive effect OEL 10 mg/m3 (TRGS 900 (DE)), Inhalable fraction

Ceiling limit value/factor: 2

If the occupational exposure limit value (AGW) and the biological limit value (BGW) are complied with, there should be no risk of damage for the unborn child (see TRGS 900, Number 2.7)

OEL 1.25 mg/m3 (TRGS 900 (DE)), Respirable fraction

If the occupational exposure limit value (AGW) and the biological limit value (BGW) are complied with, there should be no risk of damage for the unborn child (see TRGS 900, Number 2.7)

#### 8.2. Exposure controls

### Personal protective equipment

Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Particle filter with high efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P3 or FFP3).

Hand protection:

to Regulation (EC) No 1907/2006.

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Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc. Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing. Manufacturer's directions for use should be observed because of great diversity of types.

#### Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

#### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

### General safety and hygiene measures

Under no circumstances should the product come into contact with the skin of pregnant women or be inhaled by them. Females in early pregnancy must never be exposed to the substance. Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift. Store work clothing separately.

### **SECTION 9: Physical and Chemical Properties**

### 9.1. Information on basic physical and chemical properties

State of matter: solid
Form: powder
Colour: tan to brown
Odour: earthy

Odour threshold:

Not determined due to potential health hazard by inhalation.

Melting temperature: approx. 60 °C

Boiling point:

The product is a non-volatile solid.

Flammability: not highly flammable (other)

Lower explosion limit:

For solids not relevant for classification and labelling.

Upper explosion limit:

For solids not relevant for classification and labelling.

Flash point:

not applicable, the product is a solid

to Regulation (EC) No 1907/2006.

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Thermal decomposition: >= 100 °C (DSC (DIN 51007))

pH value:

(20 °C)

not applicable, of very low solubility

Viscosity, kinematic:

not applicable, the product is a solid

Solubility in water: sparingly soluble

Solubility (qualitative) solvent(s): organic solvents

easily soluble

Partitioning coefficient n-octanol/water (log Kow):

not applicable for mixtures

Vapour pressure:

negligible

Density:

No information is available for the absolute density. Instead the bulk density was determined as a more

relevant value.

Relative vapour density (air):

not applicable

Particle characteristics

Particle size distribution: No data available. -

### 9.2. Other information

### Information with regard to physical hazard classes

**Explosives** 

Explosion hazard: Product is not explosive, however a

dust explosion could result from an

air / dust mixture.

Oxidizing properties

Fire promoting properties: Based on its structural properties

the product is not classified as

oxidizing.

Flammable solids

Burning rate: The material doesn't meet the criteria

specified in paragraph 33.2.4.4 of UN

manual of tests and criteria.

Self-heating substances and mixtures

Self heating ability: Not tested on account of the low

melting-point.

Corrosion to metals

No corrosive effect on metal.

### Other safety characteristics

to Regulation (EC) No 1907/2006.

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(VDI 2263, sheet 1, 2.5)

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Minimum ignition energy:

The product is capable of dust

explosion.

Bulk density:

570 kg/m3

SAPT-Temperature:

Study scientifically not justified.

Evaporation rate:

The product is a non-volatile solid.

### **SECTION 10: Stability and Reactivity**

### 10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: No corrosive effect on metal.

### 10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### 10.3. Possibility of hazardous reactions

Dust explosion hazard.

#### 10.4. Conditions to avoid

Avoid dust formation. See SDS section 7 - Handling and storage.

### 10.5. Incompatible materials

Substances to avoid:

No substances known that should be avoided.

### 10.6. Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

### **SECTION 11: Toxicological Information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

to Regulation (EC) No 1907/2006.

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Assessment of acute toxicity:

Virtually nontoxic after a single ingestion.

Information on: Retinyl acetate

Experimental/calculated data:

LD50 rat (oral): > 2.000 mg/kg (BASF-Test)

No mortality was observed. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: ethoxyquin (ISO)

Experimental/calculated data:

LD50 rat (oral): 1.726 mg/kg (similar to OECD guideline 401)

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#### Irritation

Assessment of irritating effects:

Skin contact causes slight irritation. Not irritating to the eyes.

Information on: Retinyl acetate Experimental/calculated data:

Skin corrosion/irritation

rabbit: Slightly irritating. (OECD Guideline 404)

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#### Respiratory/Skin sensitization

Assessment of sensitization:

Based on the ingredients, there is no suspicion of a skin-sensitizing potential.

Information on: Retinyl acetate Experimental/calculated data:

Guinea pig maximization test guinea pig: Non-sensitizing. (OECD Guideline 406)

Information on: ethoxyquin (ISO) Experimental/calculated data:

Buehler test guinea pig: Non-sensitizing. (similar to OECD guideline 406)

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### Germ cell mutagenicity

Assessment of mutagenicity:

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

to Regulation (EC) No 1907/2006.

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Information on: Retinyl acetate Assessment of mutagenicity:

In the majority of tests performed (bacteria/microorganisms/cell cultures) a mutagenic effect was not found. A mutagenic effect was also not observed in in-vivo assays. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

Information on: ethoxyquin (ISO) Assessment of mutagenicity:

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

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### Carcinogenicity

Assessment of carcinogenicity: Not classified, due to lack of data.

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#### Reproductive toxicity

Assessment of reproduction toxicity:

Substances which cause concern for humans owing to possible developmental toxic effects.

Information on: Retinyl acetate
Assessment of reproduction toxicity:

No reliable data are available concerning reproduction toxicity.

Information on: ethoxyquin (ISO)
Assessment of reproduction toxicity:

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

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### **Developmental toxicity**

Assessment of teratogenicity:

The substance caused malformations/developmental toxicity in laboratory animals.

Information on: Retinyl acetate Assessment of teratogenicity: May cause harm to the unborn child.

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#### Specific target organ toxicity (single exposure)

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

to Regulation (EC) No 1907/2006.

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### Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

Repeated exposure to large quantities may affect certain organs.

Information on: Retinyl acetate

Assessment of repeated dose toxicity:

Repeated exposure to large quantities may affect certain organs.

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#### Aspiration hazard

not applicable

#### Interactive effects

No data available.

### 11.2. Information on other hazards

### Endocrine disrupting properties

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

#### Other information

Other relevant toxicity information

The product has not been tested. The statement has been derived from the properties of the individual components.

### **SECTION 12: Ecological Information**

### 12.1. Toxicity

Assessment of aquatic toxicity: Harmful to aquatic life with long lasting effects.

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Information on:Retinyl acetate

Toxicity to fish:

LC50 (96 h) 1,37 mg/l, Oncorhynchus mykiss (OECD Guideline 203)

The statement of the toxic effect relates to the analytically determined concentration. The LC50 is higher than the solubility limit. Tested above maximum solubility. No toxic effects occur within the range of solubility.

Information on:ethoxyquin (ISO)

Toxicity to fish:

LC50 (96 h) 18 mg/l, Oncorhynchus mykiss (OPP 72-1 (EPA-Guideline), Flow through.)

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Information on:Retinyl acetate

Aquatic invertebrates:

EC50 (48 h) 46 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

No toxic effects occur within the range of solubility. Tested above maximum solubility. The statement of the toxic effect relates to the analytically determined concentration.

Information on:ethoxyquin (ISO)

Aquatic invertebrates:

EC50 (48 h) 2 mg/l, Daphnia magna (OPP 72-2 (EPA-guideline), Flow through.)

\_\_\_\_\_\_

Information on:Retinyl acetate

Aquatic plants:

EC50 (72 h) 0,103 mg/l (biomass), Scenedesmus subspicatus (OECD Guideline 201, static) The details of the toxic effect relate to the nominal concentration. No toxic effects occur within the range of solubility. Tested above maximum solubility.

Information on:ethoxyquin (ISO)

Aquatic plants:

EC50 (72 h) > 16 mg/l (growth rate), Pseudokirchneriella subcapitata (Guideline 92/69/EEC, C.3, static)

No observed effect concentration (72 h) 2,3 mg/l (growth rate), Pseudokirchneriella subcapitata (Guideline 92/69/EEC, C.3, static)

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Information on: Retinyl acetate

Microorganisms/Effect on activated sludge:

EC20 (180 min) > 1.000 mg/l, activated sludge, domestic (OECD Guideline 209, aquatic)
The details of the toxic effect relate to the nominal concentration. The product has not been tested.
The statement has been derived from substances/products of a similar structure or composition.

Information on:ethoxyquin (ISO)

Microorganisms/Effect on activated sludge:

EC20 (30 min) approx. 60 mg/l, activated sludge, domestic (DIN EN ISO 8192, aerobic)

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Assessment of terrestrial toxicity: No data available.

### 12.2. Persistence and degradability

Assessment biodegradation and elimination (H2O): Not readily biodegradable (by OECD criteria).

Information on:Retinyl acetate

Assessment biodegradation and elimination (H2O):

Not readily biodegradable (by OECD criteria). Moderately/partially biodegradable.

Information on:ethoxyquin (ISO)

Assessment biodegradation and elimination (H2O):

Not readily biodegradable (by OECD criteria).

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### 12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

The product contains components with potential for bioaccumulation

Information on:Retinyl acetate

Assessment bioaccumulation potential:

Significant accumulation in organisms is not to be expected.

Information on:ethoxyquin (ISO)

Assessment bioaccumulation potential:

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

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### 12.4. Mobility in soil

Assessment transport between environmental compartments:

Volatility: No data available.

Adsorption in soil: Adsorption to solid soil phase is expected.

Information on:Retinyl acetate

Assessment transport between environmental compartments:

Volatility: No data available.

Adsorption in soil: Adsorption to solid soil phase is expected.

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### 12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Self classification

### 12.6. Endocrine disrupting properties

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

#### 12.7. Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

### 12.8. Additional information

Add. remarks environm. fate & pathway:

The product has not been tested. The statements on environmental fate and pathway have been derived from the properties of the individual components.

Other ecotoxicological advice:

The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

### **SECTION 13: Disposal Considerations**

### 13.1. Waste treatment methods

Observe national and local legal requirements.

### **SECTION 14: Transport Information**

#### Land transport

**ADR** 

Not classified as a dangerous good under transport regulations

UN number or ID number: Not applicable UN proper shipping name: Not applicable

to Regulation (EC) No 1907/2006.

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Transport hazard class(es): Not applicable Not applicable Packing group: Environmental hazards: Not applicable Special precautions for None known

user

**RID** 

Not classified as a dangerous good under transport regulations

UN number or ID number: Not applicable UN proper shipping name: Not applicable Transport hazard class(es): Not applicable Packing group: Not applicable Environmental hazards: Not applicable None known Special precautions for

user

#### **Inland waterway transport**

ADN

Not classified as a dangerous good under transport regulations

UN number or ID number: Not applicable Not applicable UN proper shipping name: Not applicable Transport hazard class(es): Not applicable Packing group: Environmental hazards: Not applicable None known Special precautions for

user:

Transport in inland waterway vessel

Not evaluated

### Sea transport

**IMDG** 

Not classified as a dangerous good under transport regulations

UN number or ID number: Not applicable Not applicable UN proper shipping name: Transport hazard class(es): Not applicable Not applicable Packing group: Environmental hazards: Not applicable

Special precautions for

user

None known

to Regulation (EC) No 1907/2006.

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### Air transport

### IATA/ICAO

Not classified as a dangerous good under transport regulations

UN number or ID number:
UN proper shipping name:
Transport hazard class(es):
Packing group:
Environmental hazards:
Special precautions for

Not applicable
Not applicable
Not applicable
Not applicable
Not applicable

user

### 14.1. UN number or ID number

See corresponding entries for "UN number or ID number" for the respective regulations in the tables above.

### 14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

### 14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

### 14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

#### 14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

#### 14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

### 14.7. Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

### **SECTION 15: Regulatory Information**

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Prohibitions, Restrictions and Authorizations

Chemical Prohibition Ordinance (DE): Annex 2

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Restriction Type: Restricted substance

Hazardous Incident Ordinance (Germany):

Listed in above regulation: no

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):

Listed in above regulation: no

Classification according to 'TA-Luft' (Germany):

5.2.1: total dust, including fine dust

Water hazard class (§8/§10 AwSV (Self-classification of the mixture according to calculation

method)): (2) significantly water polluting.

Classification in conformity with the calculation method

Law on the Protection of Working Youth

The Maternity Protection Act needs to be considered.

Observe TRGS 910 on cmr substances (German Technical Rule for Hazardous Substances) Regulation on prohibitions and restrictions on the marketing of dangerous substances, preparations and goods in accordance with the chemical law (Germany)

#### 15.2. Chemical Safety Assessment

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

### **SECTION 16: Other Information**

Assessment of the hazard classes according to UN GHS criteria (most recent version)

Skin Corr./Irrit. 3 Repr. 1B (unborn child) Aquatic Chronic 3 Aquatic Acute 3

Any other intended applications should be discussed with the manufacturer. Corresponding occupational protection measurements must be followed.

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned

in section 2 or 3:

Repr. Reproductive toxicity

Aquatic Chronic Hazardous to the aquatic environment - chronic

Acute Tox. Acute toxicity

H360D May damage the unborn child.

H412 Harmful to aquatic life with long lasting effects.
 H413 May cause long lasting harmful effects to aquatic life.

H302 Harmful if swallowed.

Date / Revised: 06.03.2023 Version: 6.0

Date previous version: not applicable Previous version: none

Date / First version: 06.03.2023 Product: Lutavit® A 500 Plus

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Date of print 22.10.2025

H411

Toxic to aquatic life with long lasting effects.

#### **Abbreviations**

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Vertical lines in the left hand margin indicate an amendment from the previous version.