

Safety data sheet

in accordance with REACH Regulation (EC) No. 1907/2006, Annex II,
amended in accordance with Regulation (EU) 2020/878

SECTION 1

Identification of the substance or mixture and of the company

Product identifier

Product name: AdBlue®
Shipping designation: Urea solution
Product code:
SDS no.:
Product type: Liquid

Identified use

Substance for reducing nitrogen oxides emitted by diesel vehicles

Details of the supplier of the safety data sheet

Enespa Oil GmbH
Bäckerbarg 4 - 7
22889 Tangstedt
Germany
E-mail: info@enespa.com
Tel: +49 89 2152650-0

Emergency telephone number

Poison emergency call Berlin: +49 (0) 30 30686 790
24 h service, advice in German and English

SECTION 2

Possible hazards

2.1 Classification of the substance or mixture

Product definition: Mixture

Classification in accordance with Regulation (EC) No. 1272/2008 [CLP/GHS]
Not classified

The product is not classified as hazardous in accordance with Regulation (EC) 1272/2008 as amended.

See Section 11 for more detailed information on health effects and symptoms.

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2.2 Label elements

Signal word: No signal word
Hazard information: No known significant effects or hazards

Safety information

Prevention: Not applicable
Response: Not applicable
Storage: Not applicable
Disposal: Not applicable

Supplemental label elements: Not applicable
EC Regulation (EC) No. 1907/2006 (REACH) Annex XVII
Restrictions on the manufacture,
placing on the market and use of certain
hazardous substances, mixtures and articles Not available

Containers to be fitted with child-resistant fastenings Not applicable

Tactile warning Not applicable

2.3 Other hazards

This mixture does not contain substances assessed as PBT or vPvB in a concentration $\geq 0.1\%$

Other hazards which do not result in classification:

- Risk of slipping on spilled product
- Hazardous ammonia vapours may form at temperatures above 80°C and irritate eyes and respiratory organs

SECTION 3

Composition/information on ingredients

3.1 Mixtures

Product definition: Mixture
Additional information: Aqueous solution of 32.5% urea and demineralised water

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

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SECTION 4

First aid measures

4.1 Description of first aid measures

Eye contact:

Immediately irrigate eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Seek urgent medical attention if eyes are irritable.

Skin contact:

Wash contaminated skin thoroughly with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Seek urgent medical attention if skin is irritable.

Inhalation:

No expected exposure path. Move affected person to fresh air. Seek urgent medical attention if symptoms develop.

Ingestion:

Rinse mouth thoroughly with water. Do not induce vomiting unless under the direction of medical personnel. Seek urgent medical attention if symptoms develop.

Protection of first aiders:

No action shall be taken involving any personal risk or without appropriate training.

4.2 Most important symptoms and effects, both acute and delayed

Eye contact: May cause pain or irritation, redness, lacrimation

Skin contact: May be slightly irritating to skin

Inhalation: No expected exposure path

Ingestion: May cause nausea or vomiting

4.3 Information on any immediate medical attention and special treatment needed

Information for the doctor:

In general, treat symptomatically and aim to alleviate the effects. If combustion products are inhaled, symptoms may develop several hours following exposure. Possibly continue medical observation for at least 48 hours.

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SECTION 5

Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Foam fire extinguishers or powder fire extinguishers are the most suitable for fighting AdBlue[®] fires.

Both are capable of extinguishing class A (solids) and class B (liquids) fires, which is appropriate for AdBlue[®].

Unsuitable extinguishing media:

CO₂ fire extinguishers are unsuitable for fighting AdBlue[®] fires, as they are less effective for larger fires and may release AdBlue[®] ammonia vapours on contact with CO₂, which can be hazardous!

Do not use water jet as an extinguisher.

It can cause the fire to spread by splashing the product!

5.2 Special hazards arising from the substance or mixture

Hazards arising from the substance or mixture:

Containers can burst violently or explode when heated due to excessive pressure build-up.

Hazardous combustion products:

The decomposition products may include carbon dioxide (CO₂), carbon monoxide (CO) and ammonia.

5.3 Information on firefighting

Special safety precautions for firefighters:

No action shall be taken involving any personal risk or without appropriate training. Promptly cordon off the scene and evacuate all persons from the area if there is a fire.

Special protective equipment for firefighting:

Firefighters must wear appropriate protective clothing and positive-pressure self-contained breathing apparatus with full-face masks. Firefighter clothing (including helmet, protective boots and protective gloves) that complies with the European standard EN 469 provides basic protection in the event of accidents involving chemicals.

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SECTION 6

Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

No action shall be taken involving any personal risk or without appropriate training. Evacuate the area. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt substance. Wear suitable personal protective equipment.

For emergency responders:

If specialised clothing is required to deal with the spillage, take note of the information described in Section 8 on suitable and unsuitable materials. See also the information under "For non-emergency personnel".

6.2 Environmental safety precautions

Avoid dispersal of spilt material and runoff as well as any contact with soil, watercourses, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewerage systems, surface waters, soil or air).

6.3 Methods and material for containment and cleaning up

Small spillage:

Stop leak if possible without risk.

Move container(s) from spill area.

Dilute with water and mop up if water-soluble.

Alternatively, or if not water-soluble, absorb with an inert dry material and place in an appropriate waste disposal container.

Dispose of via a licensed waste disposal contractor.

Large spillage:

Stop leak if possible without risk.

Move container(s) from spill area.

Prevent entry into sewers, watercourses, basements or confined areas. Flush spillage into an effluent treatment plant or proceed as follows:

Contain and collect spillage with non-combustible, absorbent material, e.g. sand, earth, vermiculite or diatomaceous earth) and place in a container for disposal according to local regulations.

Dispose of via a licensed waste disposal contractor.

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6.4 Reference to other sections

Section 1	Emergency contact information
Section 5	Firefighting measures
Section 8	Information on suitable personal protective equipment
Section 12	Environmental information
Section 13	Information on disposal

SECTION 7

Handling and storage

7.1 Safety precautions for safe handling

Safety precautions:

Wear suitable personal protective equipment

Advice on general occupational hygiene:

Eating, drinking and smoking should be prohibited in areas where this substance is used, stored and processed.

People handling the substance must wash their hands and face before eating, drinking or smoking.

Remove contaminated clothing and protective equipment before entering eating areas. See Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Do not store at temperatures exceeding: 30°C. Store in accordance with local regulations. Store in the original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drinks.

Keep containers tightly closed and sealed until ready for use.

Containers that have been opened must be carefully resealed and kept upright to prevent any leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

See Section 10 Incompatible materials

7.3 Specific end uses

Recommendations:

See Section 1.2 and the scenarios under exposure in the annex, where applicable

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SECTION 8

Exposure controls and personal protective equipment

8.1 Control parameters

Occupational exposure limits:
No exposure limits known

Recommended control procedures:
Not applicable

DNELs/DMELs:
No DNEL/DMEL values available

PNECs:
No PNEC values available

8.2 Exposure controls

Appropriate engineering controls:
Extraction system or other engineering controls to maintain relevant airborne concentrations below recommended workplace exposure limits. All activities involving chemicals should be evaluated for associated health risks to ensure that any exposure occurs under adequately controlled conditions. Personal protective equipment should only be considered once other control measures (e.g. engineering controls) have been adequately evaluated. Personal protective equipment must comply with applicable standards, be suitable for its intended purpose, be kept in good working order and be maintained properly. Personal protective equipment must be chosen in compliance with the applicable standards. To this end, the supplier of your personal protective equipment should be contacted. Additional information on standards is available from the relevant national organisation. The final choice of protective equipment always depends on the actual risk assessment. It is crucial that all parts of the personal protective equipment are compatible with each other.

Individual safety precautions

Hygiene measures:
Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the toilet and at the end of each working day.
Choose appropriate methods to remove potentially contaminated clothing.
Wash contaminated clothing before reuse.
Ensure that eyewash stations and safety showers are located close to the workstation.

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Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment.

The correct choice of respiratory protection depends upon the chemicals being handled and the condition of the actual respiratory equipment. Safety instructions should be developed for each intended application.

Therefore, respiratory equipment should always be chosen in consultation with the manufacturer and after a full assessment of the working conditions.

Eye and face protection:

If there is a risk of direct exposure to aerosols or splashes, safety glasses with side shields, a suitable face shield or other full-face protection must be worn.

Ensure that eyewash stations and safety showers are located close to the workstation.

Hand and skin protection:

Since specific work environments and material handling practices vary, work instructions must be developed for each intended application.

Therefore, gloves should always be chosen in consultation with the supplier/manufacturer and after a full assessment of the working conditions.

Furthermore, the thickness of gloves may also vary depending on the manufacturer, type of gloves and model.

As such, the technical data specified by the glove manufacturer should always be taken into account when selecting suitable gloves for the intended tasks.

Long-sleeved work clothing is recommended.

Environmental exposure controls:

Emissions from aeration and process equipment must be checked to ensure that they meet the requirements of environmental legislation.

In some cases, exhaust air scrubbers, filters or technical modifications may be needed at process equipment to reduce emissions to acceptable levels.

SECTION 9

Physical and chemical properties

9.1 Information on basic physical and chemical properties

The measurement conditions for all properties are at a standard temperature (20°C) and pressure level (1013 hPa), unless stated otherwise.

Appearance

Physical condition:	Liquid
Colour:	Colourless
Odour:	Slightly ammonia-like
Odour threshold:	Not available
pH value:	9-10
Melting and freezing point:	-11°C
Initial boiling point:	100°C
Flash point:	Not applicable
Evaporation rate:	Not available

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Flammability:
being non-flammable

Is viewed as

Lower and upper flammability limit:
Vapour pressure:
Vapour density:
Relative density:
Density:
Solubility:
Solubility at room temperature:
Miscible with water:
Partition coefficient n-octanol/water
Auto-ignition temperature:
Decomposition temperature:
Viscosity:
Explosive properties:
Oxidising properties:

Not available
2 kPa
Available
1.087 to 1.093 (ISO 2811-3)
1090 kg/m³ (1.09 g/cm³)
Readily soluble in water
100 g/l
Yes
-1.73
Not applicable
100°C
Not available
None
None

Particle properties

Median particle size:

Not applicable

9.2 Other information

No other relevant physical and chemical parameters for safe use of the product.

SECTION 10

Stability and reactivity

10.1 Reactivity

No specific reactivity data available for this product or its ingredients

10.2 Stability

Stable under the recommended conditions of storage and handling (see Section 7)

10.3 Possibility of hazardous reactions

No hazardous reactions under normal conditions of storage and use

10.4 Conditions to avoid

Avoid contamination by any source, including metals, dust and organic materials and temperatures over 80°C.

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10.5 Incompatible materials

- Strong acids
- Strong alkalis
- Nitrites
- Nitrates
- Calcium hypochlorite
- Sodium hypochlorite

10.6 Hazardous decomposition products

No hazardous decomposition products under normal conditions of storage and use

SECTION 11

Toxicological information

11.1 Information on hazard classes within the meaning of Regulation (EC) No. 1272/2008

Estimates of acute toxicity:	Not available
Information on likely routes of exposure:	Dermal, inhalation, eyes

Potential acute health effects:

Inhalation:
Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. No known significant effects or hazards.

Ingestion:
No known significant effects or hazards

Skin contact:
No known significant effects or hazards

Eye contact:
No known significant effects or hazards

Symptoms related to the physical, chemical and toxicological properties:

Inhalation:
No specific data
Skin contact:
No specific data
Eye contact:
No specific data

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Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Inhalation:

Overexposure due to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract

Ingestion:

Ingestion of large quantities may cause nausea and diarrhoea

Skin contact:

Prolonged or repeated contact can dry out the skin and lead to irritation, cracking and/or dermatitis

Eye contact:

Potential risk of transient problems such as stinging or redness if accidental eye contact occurs

Potential chronic health effects:

General:

No known significant effects or hazards

Carcinogenicity:

No known significant effects or hazards

Mutagenicity:

No known significant effects or hazards

Developmental effects:

No known significant effects or hazards

Fertility effects:

No known significant effects or hazards

11.2 Information on other hazards

Endocrine disrupting properties:

This product contains one or several components that have a branched alkylphenol impurity which is highly toxic to aquatic organisms (specified in Section 3). The components that have this impurity have been tested and are not toxic to aquatic organisms. Therefore, the data specified in Section 3 for the alkylphenol impurity should not be used to classify the aquatic toxicity of the product.

Other information:

Not available

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SECTION 12

Ecological information

12.1 Ecotoxicity

This product is not classified as hazardous.

Product / Substance	Result	Species	Exposure
Urea	Acute EC50 >10000 mg/l	Crustacean - Daphnia magna	48 hours
	Acute LC50 12800 mg/l	Fish - Opsarius barna	72 hours
	Acute LC50 6.28 mg/l	Fish - Danio rerio	96 hours
	Freshwater Chronic NOEC 47 mg/l	Algae - Microcystis aeruginosa	192 hours
	Chronic NOEC 29 mg/l	Micro-organism - Entosiphon sulcatum	72 hours

12.2 Persistence and degradability

This product is readily biodegradable.

12.3 Bioaccumulative potential

This product is not expected to bioaccumulate through food chains in the environment.

12.4 Mobility in soil

Partition coefficient in soil/water (KOC):
Not available

Mobility:
Soluble in water, slight loss through evaporation

Mobility in soil:
Due to its physical-chemical properties, the product is generally mobile in soil

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances classified as PBT or vPvB substances.

12.6 Endocrine disrupting properties

See Section 11.2 Information on other hazards

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12.7 Other hazardous effects

No known significant effects or hazards.

SECTION 13

Information on disposal

13.1 Waste treatment methods

Product:

Disposal methods:

The generation of waste should be minimised or avoided wherever possible. Disposal of this product as well as its solutions and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor.

Do not discharge untreated waste into the sewerage system unless all applicable regulations of the authorities have been complied with.

Hazardous waste products:

According to the supplier's current knowledge, this product is not defined or considered to be hazardous waste within the meaning of EU Directive 2008/98/EC.

Packaging:

Disposal methods:

The generation of waste should be minimised or avoided wherever possible.

Waste packaging should be recycled.

Incineration or landfill should only be considered when recycling is not feasible.

Special precautions:

Waste materials and containers must be disposed of in a safe way.

Empty containers or liners may retain some product residues.

Avoid dispersal of spilt material and runoff as well as any contact with soil, watercourses, drains and sewers.

Other information:

Empty containers may retain some residues.

Warnings contain instructions for the safe handling of empty packaging and must not be removed.

References:

Commission Decision 2014/955/EC pursuant to Directive 2008/98/EC

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SECTION 14**Information on transport**

	ADR/RID	ADN	IMDG	ICAO/IATA
14.1 UN number or ID number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 Correct UN shipping designation	-	-	-	-
14.3 Transport hazard classes	-	-	-	-
14.4 Packaging group	-	-	-	-
14.5 Environmental hazards	No	No	No	No

14.6 Special precautions for the user

Only transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident, leakage or spillage.

14.7 Transport in bulk by sea in accordance with IMO instruments

Shipping designation:	Urea solution
Remarks:	Liquid bulk cargo
Type of ship:	3
Contamination category:	Z

SECTION 15**Regulatory information****15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture**

The information stated in this section relates solely to the conformity of the chemical product with the inventories of the countries.

The information used to confirm the inventory status may be based on additional data of the chemical composition shown in Section 3. Other regulations may apply for importation or marketing authorisations.

REACH status:

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The company specified in Section 1 sells the product in the European Union in accordance with the applicable REACH regulations.

U.S. inventory (TSCA 8b):

All components are active or exempted.

Australia inventory of chemicals (AIC):

All components are listed or exempted.

Canada inventory:

All components are listed or exempted.

China inventory of existing chemical substances (IECSC):

All components are listed or exempted.

Japan inventory of existing and new chemicals (CSCL):

All components are listed or exempted.

Korea inventory of existing chemicals (KECI):

All components are listed or exempted.

Philippines inventory of chemicals (PICCS):

All components are listed or exempted.

Taiwan inventory of chemical substances (TCSI):

All components are listed or exempted.

Thailand inventory:

All components are listed or exempted.

Turkey inventory:

Not determined

Vietnam inventory:

All components are listed or exempted.

Chemical Weapons Convention, chemicals of list I, II & III

Not listed

Montreal Protocol

Not listed

Stockholm Convention on Persistent Organic Pollutants

Not listed

Rotterdam Convention on the Prior Informed Consent (PIC) Procedure

Not listed

UNECE Aarhus Protocol on Persistent Organic Pollutants (POPs) and Heavy Metals

Not listed

LU - Chemicals banned at the workplace in Luxembourg

Not listed

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Ozone-depleting substances (1005/2009/EU):
Not listed

Prior Informed Consent (PIC) (649/2012/EU):
Not listed

Persistent organic pollutants:
Not listed

EU - Water Framework Directive - Priority substances:
No components listed

Seveso Directive:
This product is not controlled under the Seveso Directive.

National regulations:

Storage class (TRGS 510):
12

German Hazardous Incident Ordinance:

- This product is not subject to the German Hazardous Incident Ordinance.
- Water hazard class: 1 (classified in accordance with the German Ordinance on Installations for Handling Substances Hazardous to Water (AwSV))
- AOX: The product does not contain any organically bound halogens that contribute to the AOX value in waste water

German Ordinance on the Prohibition of Chemicals (ChemVerbotsV):
This product is not subject to the German Ordinance on the Prohibition of Chemicals (ChemVerbotsV) when placed on the market in Germany

Information on employment restrictions:

The following employment restrictions must be observed:

Law for the protection of youth workers (German Youth Employment Protection Act (JArbSchG))

Law for the protection of the health of women and their children at the place of work, training and study during pregnancy (German Maternity Protection Act (MuSchG))

15.2 Chemical safety assessment

A chemical safety assessment has been carried out for one or several substances in this mixture.
A chemical safety assessment has not been carried out for the actual mixture.

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SECTION 16

Other 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
ATE:	Acute Toxicity Estimate
BCF:	Bio Concentration Factor
CAS:	Chemical Abstracts Service
CLP:	Regulation on classification, labelling and packaging [Regulation (EC) No. 1272/2008]
CSA:	Chemical Safety Assessment
CSR:	Chemical Safety Report
DMEL:	Derived Minimal Effect Level
DNEL:	Derived No-Effect Level
EINECS:	European Inventory of Existing Commercial Chemical Substances
ES:	Exposure Scenario
EUH-phrase:	CLP-specific hazard information
EWC:	European Waste Catalogue
GHS:	Globally Harmonised System of Classification and Labelling of Chemicals
IATA:	International Air Transport Association
IBC:	Intermediate Bulk Container
IMDG:	International Maritime Dangerous Goods LogPow = Decadic logarithm of the octanol-water partition coefficient
LC50:	Median lethal concentration
LD50:	Median lethal dose

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MAK:	Maximum workplace exposure limit
MARPOL:	International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 ("Marpol" = marine pollution)
N/A:	Not available
NOEC:	No Observed Effect Concentration
OECD:	Organisation for Economic Co-operation and Development
PBT:	Persistent, Bioaccumulative and Toxic
PNEC:	Predicted No-Effect Concentration
QSAR:	Quantitative Structure–Activity Relationship
UVCB:	Substance of Unknown or Variable composition, Complex reaction products or Biological materials
VOC:	Volatile Organic Compound
REACH:	Regulation on the Registration, Evaluation, Authorisation and Restriction of Chemicals [Regulation (EC) No. 1907/2006]
RID:	Regulation on the International Carriage of Dangerous Goods by Rail
RRN:	REACH Registration Number
SADT:	Self-Accelerating Decomposition Temperature
SVHC:	Substances of Very High Concern
STOT-RE:	Specific Target Organ Toxicity - Repeated Exposure
STOT-SE:	Specific Target Organ Toxicity - Single Exposure Time-averaged limit value = time-weighted average value
UN:	United Nations
Varies:	Can contain one or several of the following substances

64741-88-4 / RRN 01-2119488706-23,
64741-89-5 / RRN 01-2119487067-30,
64741-95-3 / RRN 01-2119487081-40,
64741-96-4 / RRN 01-2119483621-38,
64742-01-4 / RRN 01-2119488707-21,
64742-44-5 / RRN 01-2119985177-24,
64742-45-6, 64742-52-5 / RRN 01-2119467170-45,
64742-53-6 / RRN 01-2119480375-34,
64742-54-7 / RRN 01-2119484627-25,
64742-55-8 / RRN 01-2119487077-29,

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64742-56-9 / RRN 01-2119480132-48,

64742-57-0 / RRN 01-2119489287-22,
64742-58-1, 64742-62-7 / RRN 01-2119480472-38,
64742-63-8, 64742-65-0 / RRN 01-2119471299-27,
64742-70-7 / RRN 01-2119487080-42,
72623-85-9 / RRN 01-2119555262-43,
72623-86-0 / RRN 01-2119474878-16,
72623-87-1 / RRN 01-2119474889-13

VOC: Volatile Organic Compound

vPvB: Very Persistent, very Bioaccumulative

Procedure used to derive the classification in accordance with Regulation (EC) 1272/2008 (CLP/GHS):

Classification	Justification
Not classified	-

Full text of abbreviated H-phrases: Not applicable

Full text of classifications [CLP/ GHS]: Not applicable

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Date of issue/ Date of revision

31.07.2023

O Indicates information that has changed from the previously issued version

INFORMATION for the reader

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained herein is accurate as of the date specified below. No warranty or representation, express or implied, is made as to the accuracy or completeness of the data and information in this data sheet. The data and advice given apply when the product is sold for the stated application(s).

All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only possible hazards that exist.

Without prior consultation with Enespa Oil GmbH, make sure that the product is only used for the described application(s). It is the obligation of the user to evaluate and use this product safely and to comply with all applicable laws and regulations. Enespa Oil GmbH shall not be responsible for any damage or injury resulting from any use

that does not comply with the stated product use of the material, from any failure to adhere to recommendations or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with all the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that must be taken.

Any alterations to this document are strictly prohibited.

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00/01	00	01.02.2023	01.02.2026	S. Weigel	F. Weigel	M. Richter