



# SAFETY DATA SHEET

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

## Eni Dicrea ESX 100

Material number 7288

Revision date: 10.2.2023

Version: 2.1

Replaces version: 2.0

Language: en-DE

Date of print: 21.2.2023

Page: 1 of 12

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

### 1.1 Product identifier

Trade name: Eni Dicrea ESX 100

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

General use: Lubricating agent

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

Company name: Eni Schmiertechnik GmbH

Street/POB-No.: Paradiesstraße 14

Postal Code, city: DE-97080 Würzburg

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

E-mail: [info.wuerzburg@eni.com](mailto:info.wuerzburg@eni.com)

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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)

Aquatic Chronic 2; H411 Toxic to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling (CLP)



Hazard statements:	H411	Toxic to aquatic life with long lasting effects.
Precautionary statements:	P101	If medical advice is needed, have product container or label at hand.
	P102	Keep out of reach of children.
	P273	Avoid release to the environment.
	P391	Collect spillage.
	P501	Dispose of contents/container via the national/local hazardous waste disposal.



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

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Material number 7288

Revision date: 10.2.2023

Version: 2.1

Replaces version: 2.0

Language: en-DE

Date of print: 21.2.2023

Page: 2 of 12

### 2.3 Other hazards

Upon direct contact with eyes may cause burning, tearing, redness.

Hot product forms combustible vapours.

Product is not soluble in water, and floats on water.

Outflowing product can lead to the formation of a film on the water surface, which reduces oxygen exchange and may result in the death of organisms.

Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

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

CAS No.	Designation	PBT/vPvB	ED Human	ED Environment
68937-41-7	Tris(isopropylphenyl)phosphate		List II	List II

## SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

### 3.2 Mixtures

Chemical characterisation: Highly refined mineral oils and additives.

Hazardous ingredients:

Identifiers	Designation Classification	Content
REACH 01-0000015551-76-xxxx EC No. 406-040-9 CAS 125643-61-0	Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate Aquatic Chronic 4; H413.	< 1,5 %
REACH 01-2119535109-41-xxxx EC No. 273-066-3 CAS 68937-41-7	Tris(isopropylphenyl)phosphate Repr. 2; H361fd. STOT RE 2; H373. Aquatic Chronic 1; H410.  M-factors: Aquatic Chronic 1: M = 10.	< 0,9 %
EC No. 270-840-2 CAS 68478-81-9	9-Octadecenoic acid (Z)-, reaction products with 3-(dodecyl)dihydro-2,5-furandione and triethylenetetramine Skin Irrit. 2; H315. Repr. 2; H361fd. Aquatic Chronic 4; H413.	< 0,2 %

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.

In case of inhalation: Move victim to fresh air. In the event of discomfort seek medical treatment.

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. In case of eye irritation consult an ophthalmologist.

After swallowing: Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention.



# SAFETY DATA SHEET

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

## Eni Dicrea ESX 100

Material number 7288

Revision date: 10.2.2023

Version: 2.1

Replaces version: 2.0

Language: en-DE

Date of print: 21.2.2023

Page: 3 of 12

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

In case of ingestion: irritation, Nausea, discomfort

After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

### 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, 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

May form dangerous gases and vapours in case of fire.

Furthermore, there may develop: Nitrogen oxides (NOx), phosphorus 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 exposed containers with water spray, but avoid contact of the substance with water. Move undamaged containers from immediate hazard area if it can be done safely.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

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

Do not breathe mist/vapours/spray. Provide adequate ventilation. Remove all sources of ignition. Wear appropriate protective equipment.

Take off contaminated clothing and wash it before reuse. Avoid contact with skin, eyes, and clothing. Keep unprotected people away.

### 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

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

Never return spills in original containers for re-use.

Clean contaminated articles and floor according to the environmental legislation.

Additional information:

Special danger of slipping by leaking/spilling product.

### 6.4 Reference to other sections

Refer additionally to section 8 and 13.



# SAFETY DATA SHEET

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

## Eni Dicrea ESX 100

Material number 7288

Revision date: 10.2.2023

Version: 2.1

Replaces version: 2.0

Language: en-DE

Date of print: 21.2.2023

Page: 4 of 12

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Do not breathe mist/vapours/spray. Wear appropriate protective equipment. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Avoid contact with skin, eyes, and clothing. Have eye wash bottle or eye rinse ready at work place.

Precautions against fire and explosion:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. 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.

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

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place. Store only in original container. Make sure spills can be contained, e.g. in sump pallets or kerbed areas. Protect from heat and direct sunlight.

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

### 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	Type	Limit value
68937-41-7	Tris(isopropylphenyl)phosphate	Germany: TRGS 900 Kurzzeit	2 mg/m <sup>3</sup> (inhalable fraction)
		Germany: TRGS 900 Langzeit	1 mg/m <sup>3</sup> (inhalable fraction)



# SAFETY DATA SHEET

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

## Eni Dicrea ESX 100

Material number 7288

Revision date: 10.2.2023

Version: 2.1

Replaces version: 2.0

Language: en-DE

Date of print: 21.2.2023

Page: 5 of 12

**DNEL/DMEL:** Information about Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate:  
DNEL workers, long-term, systemic, inhalative: 3 mg/m<sup>3</sup>  
DNEL workers, long-term, systemic, dermal: 86 mg/kg bw/d  
DNEL consumers, long-term, systemic, inhalative: 0,74 mg/m<sup>3</sup>  
DNEL consumers, long-term, systemic, dermal: 4,3 mg/kg bw/d  
DNEL consumers, long-term, systemic, oral: 0,43 mg/kg bw/d  
Information about Tris(isopropylphenyl)phosphate:  
DNEL workers, long-term, systemic, inhalative: 0,145 mg/m<sup>3</sup>  
DNEL workers, short-term, systemic, inhalative: 700 mg/m<sup>3</sup>  
DNEL workers, long-term, systemic, dermal: 0,416 mg/kg bw/d  
DNEL workers, short-term, systemic, dermal: 2.000 mg/kg bw/d  
DNEL workers, short-term, local, dermal: 16 mg/m<sup>3</sup>  
DNEL consumers, long-term, systemic, inhalative: 0,07 mg/m<sup>3</sup>  
DNEL consumers, short-term, systemic, inhalative: 350 mg/m<sup>3</sup>  
DNEL consumers, long-term, systemic, dermal: 0,208 mg/kg bw/d  
DNEL consumers, short-term, systemic, dermal: 100 mg/kg bw/d  
DNEL consumers, short-term, local, dermal: 8 mg/cm<sup>3</sup>  
DNEL consumers, long-term, systemic, oral: 0,04 mg/kg bw/d  
DNEL consumers, short-term, systemic, oral: 50 mg/kg bw/d

**PNEC:** Information about Reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate:  
PNEC water (freshwater): 0 mg/L  
PNEC water (marine water): 0 mg/L  
PNEC sewage treatment plant: 10 mg/L  
PNEC sediment (freshwater): 0,37 mg/kg dw  
PNEC sediment (marine water): 0,037 mg/kg dw  
PNEC soil: 0,632 mg/kg dw  
Information about Tris(isopropylphenyl)phosphate:  
PNEC water (freshwater): 0 mg/L  
PNEC water (marine water): 0 mg/L  
PNEC water (intermittent release): 0,015 mg/L  
PNEC sewage treatment plant: 100 mg/L  
PNEC sediment (freshwater): 0,185 mg/kg dw  
PNEC sediment (marine water): 0,018 mg/kg dw  
PNEC soil: 2,5 mg/kg dw

## 8.2 Exposure controls

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

### Personal protection equipment

#### Occupational exposure controls

**Respiratory protection:** In case of inadequate ventilation wear respiratory protection.  
Respiratory protection must be worn whenever the WEL levels have been exceeded.  
Recommendation: Use combination filter type A/P according to EN 14387.  
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 EN 374.  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

**Eye protection:** Tightly sealed goggles according to EN 166.

**Body protection:** Wear suitable protective clothing.



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

## Eni Dicrea ESX 100

Material number 7288

Revision date: 10.2.2023

Version: 2.1

Replaces version: 2.0

Language: en-DE

Date of print: 21.2.2023

Page: 6 of 12

General protection and hygiene measures:

- Do not breathe mist/vapours/spray.
- Take off contaminated clothing and wash it before reuse. Avoid contact with skin, eyes, and clothing.
- Do not eat, drink or smoke when using this product.
- Wash hands thoroughly after handling.
- Do not put any product-impregnated cleaning rags into your trouser pockets.
- 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:	Yellow-Brown, Clear
Odour:	petroleum
Odour threshold:	No data available
Melting point/freezing point:	-30 °C (ASTM D 97)
Initial boiling point and boiling range:	No data available
Flammability:	No data available
Upper/lower flammability or explosive limits:	No data available
Flash point/flash point range:	245 °C (ASTM D 92)
Decomposition temperature:	No data available
pH:	No data available
Viscosity, kinematic:	at 40 °C: 100 mm <sup>2</sup> /s (ASTM D 445)
Water solubility:	Insoluble, Immiscible
Partition coefficient: n-octanol/water:	No data available
Vapour pressure:	No data available
Density:	at 15 °C: 990 kg/m <sup>3</sup> (ASTM D4052)
Vapour density:	No data available
Particle characteristics:	Not applicable

### 9.2 Other information

Explosive properties:	Product is not explosive.
Oxidizing characteristics:	Product has no oxidizing effect.
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.



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

## Eni Dicrea ESX 100

Material number 7288

Revision date: 10.2.2023

Version: 2.1

Replaces version: 2.0

Language: en-DE

Date of print: 21.2.2023

Page: 7 of 12

### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 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

## 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.

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. Contains Tris(isopropylphenyl)phosphate. Suspected of damaging fertility.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

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

### 11.2 Information on other hazards

Endocrine disrupting properties: This product contains a substance that has endocrine disrupting properties with respect to humans.

Other information: Information about Reaction mass of isomers of: C7-9-alkyl

3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate:

LD50 Rat, oral: > 2.000 mg/kg (OECD 401)

LD50 Rat, dermal: > 2.000 mg/kg (OECD 402)

Information about Tris(isopropylphenyl)phosphate:

LD50 Rat, oral: > 5.000 mg/kg

LD50 Rabbit, dermal: > 10.000 mg/kg/bw/14d

LC50 Rat, inhalative: > 200 mg/L/1h

Information about 9-Octadecenoic acid (Z)-, reaction products with

3-(dodecyl)dihydro-2,5-furandione and triethylenetetramine:

LD50 Rat, oral: 10,4 g/kg



# SAFETY DATA SHEET

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

## Eni Dicrea ESX 100

Material number 7288

Revision date: 10.2.2023

Version: 2.1

Replaces version: 2.0

Language: en-DE

Date of print: 21.2.2023

Page: 8 of 12

### Symptoms

In case of ingestion: irritation, Nausea, discomfort

After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity:

Toxic to aquatic life with long lasting effects.

Information about Eni Dicrea ESX 100:

Fish toxicity:

EC50 *Oncorhynchus mykiss*: > 1 mg/L/96h

EC50 *Daphnia magna* (Big water flea): > 1 mg/L

Information about Reaction mass of isomers of: C7-9-alkyl

3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate:

Fish toxicity:

LC50 *Danio rerio* (zebrafish): > 74 mg/L/96h (OECD 203)

NOEC *Danio rerio* (zebrafish): 0,001 mg/L/36d (OECD 210)

Daphnia toxicity:

EC50 *Daphnia magna* (Big water flea): 4,3 mg/L/24h (OECD 202)

NOEC *Daphnia magna* (Big water flea): >= 1 mg/L/21d (OECD 211)

Algae toxicity:

EC50 *Desmodesmus subspicatus* : > 3 mg/L/72h

Information about Tris(isopropylphenyl)phosphate:

Fish toxicity:

LC50 *Pimephales promelas*: 10,8 mg/L/96h

NOEC *Pimephales promelas*: 3,1 µg/L/33d (OECD 210)

Daphnia toxicity:

LC50 *Daphnia magna* (Big water flea): 1,5 mg/L/96h

NOEC *Daphnia magna* (Big water flea): 41,5 µg/L/21d (OECD 211)

Algae toxicity:

EC50 *Pseudokirchneriella subcapitata* : 2,5 mg/L/96h (OECD 201)

Water Hazard Class:

3 = highly hazardous to water (Self-classification (mixture).)

Further details:

Information about Reaction mass of isomers of: C7-9-alkyl

3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate:

Bioconcentration factor (BCF): *Oncorhynchus mykiss*: 260/35d (OECD 305)

### 12.2 Persistence and degradability

Further details:

Information about Eni Dicrea ESX 100:

Biodegradability: > 95%/28 d (OECD 301C). Product is readily biodegradable.

Information about Reaction mass of isomers of: C7-9-alkyl

3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate:

Not biodegradable

Information about Tris(isopropylphenyl)phosphate:

Biodegradability: 17,9%/28 d.

Information about mineral oil:

According to OECD criteria the product is not readily biodegradable but inherently biodegradable.

### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:

No data available

### 12.4 Mobility in soil

No data available





# SAFETY DATA SHEET

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## Eni Dicrea ESX 100

Material number 7288

Revision date: 10.2.2023

Version: 2.1

Replaces version: 2.0

Language: en-DE

Date of print: 21.2.2023

Page: 9 of 12

### 12.5 Results of PBT and vPvB assessment

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

### 12.6 Endocrine disrupting properties

This product contains a substance that has endocrine disrupting properties with respect to non-target organisms.

### 12.7 Other adverse effects

General information: Product is not soluble in water, and floats on water.  
Outflowing product can lead to the formation of a film on the water surface, which reduces oxygen exchange and may result in the death of organisms.  
Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Waste key number: 13 02 06\* = synthetic engine, gear and lubricating 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: Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself. Non-contaminated packages may be recycled.

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR/RID, ADN, IMDG, IATA-DGR:  
UN 3082

### 14.2 UN proper shipping name

ADR/RID, ADN, IMDG, IATA-DGR:  
UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Tris(isopropylphenyl)phosphate)

### 14.3 Transport hazard class(es)

ADR/RID, ADN: Class 9, Code: M6  
IMDG: Class 9, Subrisk -  
IATA-DGR: Class 9

### 14.4 Packing group

ADR/RID: III

### 14.5 Environmental hazards

Dangerous for the environment: Substance/mixture is environmentally hazardous according to the criteria of the UN model regulations.

Marine pollutant - IMDG: yes

Marine pollutant - ADN: yes





# SAFETY DATA SHEET

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

## Eni Dicrea ESX 100

Material number 7288

Revision date: 10.2.2023

Version: 2.1

Replaces version: 2.0

Language: en-DE

Date of print: 21.2.2023

Page: 10 of 12

### 14.6 Special precautions for user

#### Land transport (ADR/RID)

Warning board:	ADR/RID: Kemmler-number 90, UN number UN 3082
Hazard label:	9
Special Provisions:	274 335 375 601
Limited quantities:	5 L
EQ:	E1
Package - Instructions:	P001 IBC03 LP01 R001
Package - Special Provisions:	PP1
Special provisions for packing together:	MP19
Portable tanks - Instructions:	T4
Portable tanks - Special Provisions:	TP1 TP29
Tank coding:	LGBV
Tunnel restriction code:	(-)

#### Inland waterway craft (ADN)

Hazard label:	9
Special Provisions:	274 335 375 601
Limited quantities:	5 L
EQ:	E1
Transport permitted:	T
Equipment necessary:	PP

#### Sea transport (IMDG)

EmS:	F-A, S-F
Special Provisions:	274 335 969
Limited quantities:	5 L
Excepted quantities:	E1
Package - Instructions:	P001, LP01
Package - Provisions:	PP1
IBC - Instructions:	IBC03
IBC - Provisions:	-
Tank instructions - IMO:	-
Tank instructions - UN:	T4
Tank instructions - Provisions:	TP2, TP29
Stowage and handling:	Category A.
Properties and observations:	-
Segregation group:	none

#### Air transport (IATA)

Hazard label:	Miscellaneous & Environmentally hazardous
Excepted Quantity Code:	E1
Passenger and Cargo Aircraft: Ltd.Qty.:	Pack.Instr. Y964 - Max. Net Qty/Pkg. 30 kg G
Passenger and Cargo Aircraft:	Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L
Cargo Aircraft only:	Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L
Special Provisions:	A97 A158 A197 A215
Emergency Response Guide-Code (ERG):	9L

### 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



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

## Eni Dicrea ESX 100

Material number 7288

Revision date: 10.2.2023

Version: 2.1

Replaces version: 2.0

Language: en-DE

Date of print: 21.2.2023

Page: 11 of 12

Water Hazard Class: 3 = highly hazardous to water (Self-classification (mixture).)  
Incident regulation: Richtlinie 2012/18/EU (Seveso III):  
Umweltgefahren: Ziffer 1.3.2 = Code E2, Mengenschwelle 200 000kg / 500 000kg  
Technical guidance air: 5.2.5  
Information on working limitations:  
Observe employment restrictions for young people.  
Further regulations, limitations and legal requirements:  
The product is not subject to the Chemicals Prohibition Ordinance (ChemVerbotsV).

### National regulations - EC member states

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



Hazard statements: not applicable  
Precautionary statements: P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
Further regulations, limitations and legal requirements:  
Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive] refer to Germany, 12. BImSchV  
Use restriction according to REACH annex XVII, no.: 3  
Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: 1.3.2 E2

### 15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

## SECTION 16: Other information

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

H315 = Causes skin irritation.

H361fd = Suspected of damaging fertility. Suspected of damaging the unborn child.

H373 = May cause damage to organs through prolonged or repeated exposure.

H410 = Very toxic to aquatic life with long lasting effects.

H411 = Toxic to aquatic life with long lasting effects.

H413 = May cause long lasting harmful effects to aquatic life.

Reason of change: General revision

Date of first version: 15.6.2021

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



# SAFETY DATA SHEET

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

## Eni Dicrea ESX 100

Material number 7288

Revision date: 10.2.2023

Version: 2.1

Replaces version: 2.0

Language: en-DE

Date of print: 21.2.2023

Page: 12 of 12

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  
BCF: Bioconcentration Factor  
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  
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  
LD50: Lethal dose 50%  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
M-factor: Multiplication factor  
NOEC: No Observed Effect Concentration  
OECD: Organisation for Economic Co-operation and Development  
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  
Repr.: Reproductive toxicity  
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail  
Skin Irrit.: Skin irritation  
STOT RE: Specific target organ toxicity - repeated exposure  
TLV: Threshold Limit Value  
TRGS: Technical Rules for Hazardous Substances  
UN: United Nations  
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/ubg3sep>

