



# Eni Antifreeze Ready

## Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878  
Revision date: 22/03/2023 Version: 1.0

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

#### 1.1. Product identifier

Product form	: Mixture
Trade name	: Eni Antifreeze Ready
UFI	: SAA8-VKFV-337S-2V97
Product code	: 1611
Type of product	: Automotive Care Products
Formula	: 2203-2023
Product group	: Trade product

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

##### 1.2.1. Relevant identified uses

Main use category	: Industrial use, Professional use
Industrial/Professional use spec	: Wide dispersive use Used in closed systems
Use of the substance/mixture	: Antifreeze fluids ---- Do not use the product for any purposes that have not been advised by the manufacturer.
Function or use category	: Anti-freezing agents

##### 1.2.2. Uses advised against

No additional information available

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

Eni Sustainable Mobility S.p.A., Viale Giorgio Ribotta 51, 00144 Rom, ITALY, Tel. +39 06 59821, [www.eni.com](http://www.eni.com)  
Competent person responsible for the safety data sheet (Reg. EC nr. 1907/2006): [SDS.ESM.info@eni.com](mailto:SDS.ESM.info@eni.com)

Distributed by: Eni Schmiertechnik GmbH, Paradiesstraße 14, 97080 Würzburg, GERMANY, [www.enischmiertechnik.de](http://www.enischmiertechnik.de)  
Department responsible for information: Application Engineering & Product Management (AEPM), Tel. +49 (0)931-900 98-0  
e-mail: [technik.wuerzburg@eni.com](mailto:technik.wuerzburg@eni.com)

#### 1.4. Emergency telephone number

Emergency number	: CNIT +39 0382 24444 (24h) (IT + EN)
	Poison centre (UK): National Poisons Information Service Edinburgh (24h) (+44) 844 892 0111 0870 600 6266 (UK only) (Source: UN-WHO)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [EU-GHS / CLP]

Acute toxicity (oral), Category 4	H302
Reproductive toxicity, Category 1B	H360FD
Specific target organ toxicity – Repeated exposure, Category 2	H373
Full text of H- and EUH-statements: see section 16	

##### Adverse physicochemical, human health and environmental effects

Harmful if swallowed. May damage fertility. May damage the unborn child. May cause damage to organs (kidneys) through prolonged or repeated exposure (Oral). For specific information about the toxicological/ecotoxicological properties and classification of this product, see Sect. 11 and/or Sect. 12.

# Eni Antifreeze Ready

## Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

GHS08

CLP Signal word :

Danger

Contains :

ethylene glycol; disodium tetraborate pentahydrate

Hazard statements (CLP) :

H302 - Harmful if swallowed.

H360FD - May damage fertility. May damage the unborn child.

H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure (Oral).

Precautionary statements (CLP) :

P201 - Obtain special instructions before use.

P260 - Do not breathe mist, spray, Vapours.

P280 - Wear protective gloves, protective clothing, eye protection, face protection.

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

P314 - Get medical advice/attention if you feel unwell.

P501 - Dispose of contents and container to according to national or local regulations.

Extra phrases :

Restricted to professional users.

### 2.3. Other hazards (not relevant for classification)

Other hazards not contributing to the classification : Any substance, in case of accidents involving pressurized circuits and the like, may be accidentally injected under the skin, even without external damage. In such a case, the victim should be brought to an hospital as soon as possible, to get specialized medical treatment. Do not wait for symptoms to develop.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

Component	
ethylene glycol (107-21-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
disodium tetraborate pentahydrate (12179-04-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Methyl-1H-benzotriazole (29385-43-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Component	
ethylene glycol(107-21-1)	The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605
disodium tetraborate pentahydrate(12179-04-3)	The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605
Methyl-1H-benzotriazole(29385-43-1)	The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

# Eni Antifreeze Ready

## Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Notes : Composition/ Information on ingredients:  
Ethylene glycol.  
Additives  
Water

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [EU-GHS / CLP]
ethanediol; ethylene glycol (Main component, see note [*])	CAS-No.: 107-21-1 EC-No.: 203-473-3 EC Index-No.: 603-027-00-1 REACH-no: 01-2119456816-28	47,5 – 50	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) STOT RE 2, H373
disodium tetraborate pentahydrate (Additive, see note [*]) Substance included in REACH Candidate List (Disodium tetraborate, anhydrous)	CAS-No.: 12179-04-3 EC-No.: 215-540-4 EC Index-No.: 005-011-02-9 REACH-no: 01-2119490790-32-0002	0,6 – 0,7	Repr. 1B, H360FD
Methyl-1H-benzotriazole	CAS-No.: 29385-43-1 EC-No.: 249-596-6 REACH-no: 01-2119979081-35	0,1 – 0,15	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Repr. 2, H361d Aquatic Chronic 2, H411
2-ethylhexanoic acid	CAS-No.: 149-57-5 EC-No.: 205-743-6 REACH-no: 01-2119488942-23	0,1 – 0,15	Repr. 2, H361d

Notes : Note [\*]:  
substance with national workplace exposure limit(s)

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general : In case of doubt or persistent symptoms, consult always a physician.

First-aid measures after inhalation : In case of disturbances owing to inhalation of vapours or mists, remove the victim from exposure; keep at rest; if necessary, seek medical attention. If casualty is unconscious and not breathing: ensure that there is no obstruction to breathing and give artificial respiration by trained personnel. Place in the recovery position.

First-aid measures after skin contact : Take off contaminated clothing and shoes. Wash thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do so. Rinse eyes thoroughly for at least 15 minutes. Keep eyelids well apart. If irritation, blurred vision or swelling occurs and persists, obtain medical advice from a specialist.

First-aid measures after ingestion : Rinse mouth thoroughly with water. Do not induce vomiting. Give nothing to drink. In case of spontaneous vomiting, keep head low, to avoid the risk of aspiration into the lungs. Get medical advice/attention.

# Eni Antifreeze Ready

## Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

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

Symptoms/effects after inhalation	: None under normal conditions at ambient temperatures.
Symptoms/effects after skin contact	: None under normal conditions at ambient temperatures.
Symptoms/effects after eye contact	: Contact with eyes may cause a light transient irritation.
Symptoms/effects after ingestion	: Ingestion of significant quantities (see sect. 11) may cause kidney damages, coma and death. The effects may be delayed.
Symptoms/effects upon intravenous administration	: No information available.
Chronic symptoms	: May cause damage to kidneys through prolonged or repeated exposure if swallowed.

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

Treat symptomatically. Obtain medical attention if casualty has an altered state of consciousness or if symptoms do not resolve.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Small-size fires: carbon dioxide, dry chemicals, foam. Large fires: foam or water fog (mist). These means should be used by trained personnel only.
Unsuitable extinguishing media	: None specific.

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

Fire hazard	: Not flammable. Product with a very low risk of fire. It can create flammable mixtures or burn only when the water content has evaporated.
Explosion hazard	: Heat may build pressure in tank and containers, rupturing closed vessels, spreading fire and increasing risk of burns and injuries.
Hazardous decomposition products in case of fire	: Incomplete combustion will generate poisonous carbon monoxide, carbon dioxide and other toxic gases. Oxygenated compounds (aldehydes, etc.). BOx.

### 5.3. Advice for firefighters

Firefighting instructions	: Shut off source of product, if possible. Move undamaged containers from immediate hazard area if it can be done safely. Spilled product which is not burning should be covered with sand or foam. Use water sprays to cool containers and surfaces exposed to the flames. If the fire cannot be controlled, evacuate area.
Special protective equipment for firefighters	: Personal protection equipment for firefighters (see also sect. 8). Self-contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection. EN 443. EN 469. EN 659.
Other information	: In case of fire, do not discharge residual product, waste materials and runoff water: collect separately and use a proper treatment.

## SECTION 6: Accidental release measures

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

General measures	: Stop or contain leak at the source, if safe to do so. Eliminate all ignition sources if safe to do so (e.g. electricity, sparks, fires, flares). Avoid direct contact with released material.
------------------	---

#### 6.1.1. For non-emergency personnel

Protective equipment	: See Section 8.
Emergency procedures	: Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency.

# Eni Antifreeze Ready

## Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

### 6.1.2. For emergency responders

- Protective equipment : Small spillages: normal antistatic working clothes are usually adequate. Large spillages: full body suit of chemically resistant and antistatic material. If necessary heat resistant and insulated. Work gloves (preferably gauntlets) providing adequate chemical resistance. Gloves made of PVA are not water-resistant, and are not suitable for emergency use. If contact with hot product is possible or anticipated, gloves should be heat-resistant and thermally insulated. Work helmet. Antistatic non-skid safety shoes or boots. Goggles and /or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory protection: A half or full-face respirator with combined dust/organic vapour filter(s), or a Self-Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.
- Emergency procedures : Notify local authorities according to relevant regulations.

### 6.2. Environmental precautions

Prevent product from entering sewers, rivers or other bodies of water. In case of contamination of environment compartments (soil, subsoil, surface or underground waters), remove contaminated soil when possible, and in any case treat all involved compartments in accordance with local regulations.

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

- For containment : Contain spilled liquid with sand, earth or other suitable absorbents. Recover free liquid in suitable containers. Clean contaminated area. Dispose of according to local regulations. If in water: This product is soluble in water, and usually no special measures are feasible. If possible, collect spilled product with mechanical means. Notify official Authorities when required. Dispose of in accordance with relevant local regulations. Do not use solvents or dispersants, unless specifically advised by an expert, and, if required, approved by local authorities.
- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. This material and its container must be disposed of in a safe way, and according to local legislation.
- Other information : Local regulations may also prescribe or limit actions to be taken. Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave/current direction and speed) may significantly influence the choice of appropriate actions. For this reason, local experts should be consulted when necessary.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapour. Keep in a cool, well-ventilated place. Before entering storage tanks and commencing any operation in a confined area (e.g. tunnels), carry out an adequate clean-up, and check the atmosphere for oxygen content and flammability. Flammable vapours may accumulate in the container. Keep away from heat/sparks/open flames/hot surfaces.
- Hygiene measures : Ensure that proper housekeeping measures are in place. Avoid contact with skin. Do not breathe fume/ mist/ vapours. Do not ingest. Do not smoke. Do not eat and do not drink during use. Do not clean hands with dirty or oil-soaked rags. Do not re-use clothes, if they are still contaminated. Keep away from food and beverages. Take off immediately all contaminated clothing and wash it before reuse. Contaminated materials should not be allowed to accumulate in the workplaces and should never be kept inside the pockets. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

# Eni Antifreeze Ready

## Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

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

Storage conditions	: Store in dry, well ventilated area. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. If the product is supplied in containers: Keep only in the original container or in a suitable container for this kind of product. Keep containers tightly closed and properly labelled.
Incompatible products	: Keep away from: strong acids and strong oxidants. Alkali metals.
Incompatible materials	: None in normal conditions.
Storage area	: Storage area layout, tank design, equipment and operating procedures must comply with the relevant European, national or local legislation. Storage installations should be designed with adequate bunds so as to prevent ground and water pollution in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations.
Packaging materials	: Keep only in the original container. Do not cut, weld, bore, burn or incinerate emptied containers, unless they have been cleaned and declared safe.

### 7.3. Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

ethanediol; ethylene glycol (107-21-1)	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	Ethylene glycol
IOEL TWA	52 mg/m <sup>3</sup> Vapours
IOELV TWA (ppm)	20 ppm
IOELV STEL (mg/m <sup>3</sup> )	104 mg/m <sup>3</sup> Vapours
IOELV STEL (ppm)	40 ppm
Notes	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
<b>Austria - Occupational Exposure Limits</b>	
MAK (OEL TWA)	26 mg/m <sup>3</sup> Vapours
MAK [ppm]	10 ppm
MAK (OEL STEL)	52 mg/m <sup>3</sup> Vapours
MAK Short time value [ppm]	20 ppm
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	52 mg/m <sup>3</sup> (Inhalable aerosol)
Short time value [mg/m <sup>3</sup> ]	104 mg/m <sup>3</sup> (Inhalable aerosol)
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA [1]	26 mg/m <sup>3</sup> (Inhalable aerosol)
OEL TWA [2]	10 ppm
OEL STEL	52 mg/m <sup>3</sup> (Inhalable aerosol)
Grænseværdi (kortvarig) (ppm)	20 ppm

# Eni Antifreeze Ready

## Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

<b>ethanediol; ethylene glycol (107-21-1)</b>	
<b>France - Occupational Exposure Limits</b>	
VME (OEL TWA)	52 mg/m <sup>3</sup> Vapours
VME [ppm]	20 ppm
VLE [mg/m <sup>3</sup> ]	104 mg/m <sup>3</sup> Vapours
VLE [ppm]	40 ppm
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA) [1]	26 mg/m <sup>3</sup> (Inhalable aerosol) (15 min)
AGW (OEL TWA) [2]	10 ppm
Limitation of exposure peaks (mg/m <sup>3</sup> )	52 mg/m <sup>3</sup> (Inhalable aerosol) (15 min)
Limitation of exposure peaks (ppm)	20 ppm
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA [1]	52 mg/m <sup>3</sup> Vapours
OEL TWA [2]	20 ppm
OEL (15 min ref) (mg/m <sup>3</sup> )	104 mg/m <sup>3</sup> Vapours
OEL (15 min ref) (ppm)	40 ppm
<b>Italy - Occupational Exposure Limits</b>	
Local name	Etilen glicol
OEL TWA (mg/m <sup>3</sup> )	52 mg/m <sup>3</sup> Skin
OEL TWA (ppm)	20 ppm Skin
OEL STEL (mg/m <sup>3</sup> )	104 mg/m <sup>3</sup> Skin
OEL STEL (ppm)	40 ppm Skin
Remark	Cute
Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
<b>Netherlands - Occupational Exposure Limits</b>	
MAC TGG 8h (mg/m <sup>3</sup> )	52 mg/m <sup>3</sup> Vapours
MAC TGG 15 min (mg/m <sup>3</sup> )	104 mg/m <sup>3</sup> Vapours
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	15 mg/m <sup>3</sup> (Inhalable aerosol)
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA) [1]	52 mg/m <sup>3</sup> (Inhalable aerosol)
VLA-EC (mg/m <sup>3</sup> )	104 mg/m <sup>3</sup> (Inhalable aerosol)
Notes	skin
<b>Sweden - Occupational Exposure Limits</b>	
NGV (OEL TWA)	25 mg/m <sup>3</sup> Vapours
Nivågränsvärde (NVG) (ppm)	10 ppm
KTV (OEL STEL)	50 mg/m <sup>3</sup> Vapours
KTV (OEL STEL) [ppm]	20 ppm
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH TLV®-STEL Ceiling (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>

# Eni Antifreeze Ready

## Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

<b>disodium tetraborate pentahydrate (12179-04-3)</b>	
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	2 mg/m <sup>3</sup> (Boric acid and sodium borate)
Short time value [mg/m <sup>3</sup> ]	6 mg/m <sup>3</sup> (Boric acid and sodium borate)
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA [1]	1 mg/m <sup>3</sup>
OEL STEL	2 mg/m <sup>3</sup>
<b>France - Occupational Exposure Limits</b>	
VME (OEL TWA)	1 mg/m <sup>3</sup>
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA) [1]	5 mg/m <sup>3</sup> (Inhalable aerosol)
Limitation of exposure peaks (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (Inhalable aerosol)
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA [1]	1 mg/m <sup>3</sup>
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA) [1]	2 mg/m <sup>3</sup> (Boric acid and sodium borate)
VLA-EC (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup> (Boric acid and sodium borate)
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH OEL TWA	2 mg/m <sup>3</sup> (Borates, inorganic)
ACGIH OEL STEL	6 (Borates, inorganic)

### 8.1.2. Recommended monitoring procedures

<b>Monitoring methods</b>	
Monitoring methods	Monitoring procedures should be chosen according to the indications set by national authorities or labour contracts. Refer to relevant legislation and in any case to the good practice of industrial hygiene.

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

<b>Eni Antifreeze Ready</b>	
<b>DNEL/DMEL (additional information)</b>	
Additional information	Not applicable
<b>PNEC (additional information)</b>	
Additional information	Not applicable
<b>ethanediol; ethylene glycol (107-21-1)</b>	
<b>DNEL/DMEL (Workers)</b>	
Long-term - systemic effects, dermal	106 mg/kg bodyweight/day
Long-term - local effects, inhalation	35 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Acute - local effects, inhalation	7 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	53 mg/kg bodyweight/day



# Eni Antifreeze Ready

## Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

<b>ethanediol; ethylene glycol (107-21-1)</b>	
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	10 mg/l
PNEC aqua (marine water)	1 mg/l
PNEC aqua (intermittent, freshwater)	10 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	37 mg/kg dwt
PNEC sediment (marine water)	3,7 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	1,53 mg/kg dwt
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	199,5 mg/l
<b>disodium tetraborate pentahydrate (12179-04-3)</b>	
<b>DNEL/DMEL (Workers)</b>	
Acute - local effects, inhalation	17 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	32432 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	6,7 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Long-term - systemic effects, oral	0,79 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	3,4 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	159,5 mg/kg bodyweight/day
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	2,9 mg/l
PNEC aqua (marine water)	2,9 mg/l
PNEC aqua (intermittent, freshwater)	13,7 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	1,8 mg/kg dwt
PNEC sediment (marine water)	1,8 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	5,7 mg/kg dwt
<b>PNEC (Oral)</b>	
PNEC oral (secondary poisoning)	79 mg/kg bodyweight
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	10 mg/l
<b>Methyl-1H-benzotriazole (29385-43-1)</b>	
<b>DNEL/DMEL (Workers)</b>	
Long-term - systemic effects, dermal	300 µg/kg bodyweight/day
Long-term - systemic effects, inhalation	21,2 mg/m <sup>3</sup>

# Eni Antifreeze Ready

## Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

<b>Methyl-1H-benzotriazole (29385-43-1)</b>	
<b>DNEL/DMEL (General population)</b>	
Long-term - systemic effects, oral	10 µg/kg bodyweight/day
Long-term - systemic effects, inhalation	350 µg/m <sup>3</sup>
Long-term - systemic effects, dermal	10 µg/kg bodyweight/day
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	8 µg/l
PNEC aqua (marine water)	20 µg/l
PNEC aqua (intermittent, freshwater)	86 µg/l
PNEC aqua (intermittent, marine water)	53 µg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	117 µg/kg dw
PNEC sediment (marine water)	292 µg/kg dw
<b>PNEC (Soil)</b>	
PNEC soil	0,0187 mg/kg dwt
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	39,4 mg/l
<b>2-ethylhexanoic acid (149-57-5)</b>	
<b>DNEL/DMEL (Workers)</b>	
Long-term - systemic effects, dermal	2 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	14 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Long-term - systemic effects, oral	1 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	3,5 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	1 mg/kg bodyweight/day
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0,398 mg/l
PNEC aqua (marine water)	0,0398 mg/l
PNEC aqua (intermittent, freshwater)	1 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	4,74 mg/kg dwt
PNEC sediment (marine water)	0,474 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	0,712 mg/kg dwt
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	71,7 mg/l

# Eni Antifreeze Ready

## Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

Note : The Derived No Effect Level (DNEL) is an estimated safe level of exposure that is derived from toxicity data in accord with specific guidance within the European REACH regulation. The DNEL may differ from an Occupational Exposure Limit (OEL) for the same chemical. OELs may be recommended by an individual company, a governmental regulatory body or an expert organization, such as the Scientific Committee for Occupational Exposure Limits (SCOEL) or the American Conference of Governmental Industrial Hygienists (ACGIH). OELs are considered to be safe exposure levels for a typical worker in an occupational setting for an 8-hour work shift, 40 hour work week, as a time weighted average (TWA) or a 15 minute short-term exposure limit (STEL). While also considered to be protective of health, OELs are derived by a process different from that of REACH.

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station. Minimize exposure to mists/vapours/aerosol. Before commencing any operation in a confined area (e.g. tunnels), check the atmosphere for oxygen content and flammability.

### 8.2.2. Personal protection equipment

#### Personal protective equipment (for industrial or professional use):

Gloves. Protective clothing. Safety glasses. Safety shoes or boots.

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Safety glasses. DIN EN 166. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Long-sleeved overalls. If necessary, refer to the EN 340 and related standards, for definition of characteristics and performance according to the risk rating of the area. Wash contaminated clothing before reuse.

##### Hand protection:

Adequate materials: nitrile (NBR) or PVC with a protection index > 5 (permeation time > 240 mins). Use gloves respecting all the conditions and within the limits set by the manufacturer. Replace gloves immediately in case of cuts, holes or other signs of damages or degradation. If necessary, refer to the EN 374 standard. Thickness of glove material: > 0,4 mm. Personal hygiene is a key element for an effective hand care. Gloves must be worn only with clean hands. After wearing gloves, hands must be carefully washed and dried.

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

Not necessary with sufficient ventilation. Independently from other possible actions (technical modifications, operating procedures, and other means to limit the exposure of workers), personal protection equipment can be used according to necessity. Open or well ventilated spaces: if the product is handled without adequate containment: use full or half-face masks with adequate filter for mists and organic vapours. (EN 136/140/145). Closed or confined areas (e.g. tank interiors): the use of protection measures for airways (masks or self-contained breathing apparatus), must be assessed according to the specific activity, as well as level and duration of predicted exposure. (EN 136/140/145). Combination filter device (DIN EN 141)

#### 8.2.2.4. Thermal hazards

##### Thermal hazard protection:

None in normal use conditions.

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Storage areas/installations should be designed with adequate bunds so as to prevent ground and water pollution in case of leaks or spills. Do not discharge the product into the environment. Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed.

# Eni Antifreeze Ready

## Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

### Consumer exposure controls:

Ensure adequate ventilation. Avoid excessive or improper use.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Colour	: Turquoise blue.
Appearance	: Liquid, bright & clear.
Odour	: characteristic. Glycol.
Odour threshold	: Not determined
Melting point	: Not determined
Freezing point	: < -38 °C (ASTM D 1177)
Boiling point	: > 108 °C (ASTM D 1120)
Flammability (solid, gas)	: Not flammable
Explosive properties	: Not explosive.
Oxidising properties	: Not oxidising.
Explosive limits	: Not available
Lower explosion limit	: Not determined
Upper explosion limit	: Not determined
Flash point	: Not determined
Auto-ignition temperature	: Not determined
Decomposition temperature	: Not determined
pH	: 7 – 9
Viscosity, kinematic	: Not determined
Viscosity, dynamic	: Not determined
Solubility	: Water: soluble in water
Log Kow	: Not determined
Log Pow	: Not determined
Vapour pressure	: < 0,0001 Pa (20°C)
Vapour pressure at 50°C	: Not determined
Density	: 1,075 – 1,079 kg/l (ASTM D 1122)
Relative density	: Not determined
Relative vapour density at 20°C	: Not determined
Particle characteristics	: Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

Bulk density : 1,02 – 1,08 (20°C) (ASTM D 4052)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This mixture does not offer any further hazard for reactivity, except what is reported in the following paragraphs.

### 10.2. Chemical stability

Stable product, according to its intrinsic properties (in normal conditions of storage and handling).

### 10.3. Possibility of hazardous reactions

None (in normal conditions of storage and handling).

### 10.4. Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

# Eni Antifreeze Ready

## Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

### 10.5. Incompatible materials

Strong oxidants and strong acids. Alkali metals.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition generates : Oxygenated compounds (aldehydes, etc.), Carbon dioxide, Carbon monoxide.

## SECTION 11: Toxicological information

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

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: (according to composition) The toxic (fatal) dose for pure ethylene glycol has been estimated 1.4 ml/kg wt (about 100 ml for an adult person). The effects may be delayed.

Eni Antifreeze Ready	
ATE (oral)	833,333 mg/kg bodyweight
ethanediol; ethylene glycol (107-21-1)	
LD50 oral rat	7712 mg/kg bodyweight
LD50 dermal	> 3500 mg/kg (mouse)
LC50 Inhalation - Rat	> 2,5 mg/l (6h)
disodium tetraborate pentahydrate (12179-04-3)	
LD50 oral rat	3450 – 4080 mg/kg (anhydrous form)
LD50 dermal rabbit	> 2000 mg/kg (anhydrous form)
LC50 Inhalation - Rat	> 2,04 mg/l/4h (LOAEL)
Methyl-1H-benzotriazole (29385-43-1)	
LD50 oral rat	> 675 mg/kg
LD50 dermal rabbit	> 2000 mg/kg bodyweight
2-ethylhexanoic acid (149-57-5)	
LD50 oral rat	2043 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1445 - 2890
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation	: Slightly irritant but not relevant for classification (Based on available data, the classification criteria are not met) pH: 7 – 9
Additional information	: (according to composition)
Serious eye damage/irritation	: Slightly irritant but not relevant for classification (Based on available data, the classification criteria are not met) pH: 7 – 9
Additional information	: (according to composition)
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: (according to composition)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: (according to composition)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: (according to composition)

# Eni Antifreeze Ready

## Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

### ethanediol; ethylene glycol (107-21-1)

NOAEL (chronic, oral, animal/male, 2 years)	1500 mg/kg bodyweight Mouse
Reproductive toxicity	: May damage fertility. May damage the unborn child.
Additional information	: (according to composition)

### Methyl-1H-benzotriazole (29385-43-1)

NOAEL (animal/male, F0/P)	90 mg/kg bodyweight
NOAEL (animal/male, F1)	30 mg/kg bodyweight

STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: (according to composition)
STOT-repeated exposure	: May cause damage to kidneys through prolonged or repeated exposure if swallowed.
Additional information	: (according to composition) The ethylene glycol present in this formulation may cause intoxication, central nervous system depression (incoordination, dizziness), respiratory failure, liver and kidney damage.

### ethanediol; ethylene glycol (107-21-1)

NOAEL (oral, rat, 90 days)	150 mg/kg bodyweight/day 12 months.
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

### Methyl-1H-benzotriazole (29385-43-1)

NOAEL (oral, rat, 90 days)	150 mg/kg bodyweight/day
----------------------------	--------------------------

### 2-ethylhexanoic acid (149-57-5)

NOAEL (oral, rat, 90 days)	≈ 300 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test)
----------------------------	---

Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: (according to composition)

### Eni Antifreeze Ready

Viscosity, kinematic	Not determined
----------------------	----------------

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties	: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %
--	--

### 11.2.2. Other information

Potential adverse human health effects and symptoms	: Harmful if swallowed, May cause damage to kidneys through prolonged or repeated exposure if swallowed.
Other information	: None

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. An uncontrolled release to the environment may nevertheless produce a contamination of different environmental compartments (soil, underground, surface water bodies, aquifers). Handle according to general working hygiene practices to avoid pollution and release into the environment.
Ecology - water	: This product is soluble in water.
Hazardous to the aquatic environment, short-term (acute)	: Not classified (Based on available data, the classification criteria are not met)

# Eni Antifreeze Ready

## Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

Hazardous to the aquatic environment, long-term (chronic) : Not classified (Based on available data, the classification criteria are not met)

ethylene glycol (107-21-1)	
LC50 fish 1	15380 mg/l (LC10 - 96h)
LC50 fish 2	72860 mg/l (Pimephales promelas)
EC50 Daphnia 1	8590 mg/l (EC10 - 48h)
EC50 Daphnia 2	100 mg/l
EC50 96h - Algae [1]	3536 – 13000 mg/l
ErC50 (algae)	≥ 100 mg/l (EC10)
NOEC (chronic)	15380 – 32000 mg/l

disodium tetraborate pentahydrate (12179-04-3)	
LC50 fish 1	74 – 79,7 mg/l
LC50 fish 2	79,7 mg/l (Pimephales promelas)
LC50 other aquatic organisms 1	64 – 544 mg/l (96h)
LC50 other aquatic organisms 2	133 mg/l (Daphnia Magna) (48h)
EC50 72h - Algae [1]	40,2 – 66 mg/l

Methyl-1H-benzotriazole (29385-43-1)	
LC50 fish 1	25,5 mg/l (Pimephales promelas)
EC50 Daphnia 1	8,58 mg/l (Daphnia galeata, 2 d)
EC50 other aquatic organisms 1	15,8 mg/l Test organisms (species): other aquatic crustacea:
EC50 other aquatic organisms 2	8,58 mg/l Test organisms (species): other aquatic crustacea:
EC50 72h - Algae [1]	75 mg/l
LOEC (chronic)	37,6 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	18,4 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic crustacea	18,4 mg/l (Daphnia magna, 21d)
NOEC chronic algae	1,18 mg/l (freshwater)

2-ethylhexanoic acid (149-57-5)	
LC50 fish 1	> 100 mg/l Test organisms (species): Oryzias latipes
EC50 72h - Algae [1]	500 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	18 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

## 12.2. Persistence and degradability

Eni Antifreeze Ready	
Persistence and degradability	The most significant constituents of the product should be considered as "readily biodegradable".

ethylene glycol (107-21-1)	
Persistence and degradability	Readily biodegradable.
Biochemical oxygen demand (BOD)	0,36 – 0,4 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1,21 g O <sub>2</sub> /g substance
ThOD	1,26 g O <sub>2</sub> /g substance

# Eni Antifreeze Ready

## Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

disodium tetraborate pentahydrate (12179-04-3)	
Persistence and degradability	Inherently biodegradable.
Methyl-1H-benzotriazole (29385-43-1)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	4 % (28 d, OECD TG 301 F)

### 12.3. Bioaccumulative potential

Eni Antifreeze Ready	
Log Pow	Not determined
Log Kow	Not determined
Bioaccumulative potential	Not established.
ethylene glycol (107-21-1)	
Log Pow	-1,36
disodium tetraborate pentahydrate (12179-04-3)	
Log Pow	-1,53
Methyl-1H-benzotriazole (29385-43-1)	
Log Kow	1,079 – 1,083 (25°C)

### 12.4. Mobility in soil

Eni Antifreeze Ready	
Ecology - soil	No data available.

### 12.5. Results of PBT and vPvB assessment

Eni Antifreeze Ready	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
Results of PBT-vPvB assessment	The components in this formulation do not meet the criteria for classification as PBT or vPvB. The product should be considered as "Not persistent" in the environment, according to the REACH Annex XIII criteria (point 1.1)
Component	
ethylene glycol (107-21-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
disodium tetraborate pentahydrate (12179-04-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Methyl-1H-benzotriazole (29385-43-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.



# Eni Antifreeze Ready

## Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

### 12.7. Other adverse effects

Other adverse effects : None.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Do not dispose of the product, either new or used, by discharging into sewers, tunnels, lakes or water courses. Deliver to a qualified official collector.

Sewage disposal recommendations : Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed. Dispose of in a safe manner in accordance with local/national regulations.

Product/Packaging disposal recommendations : European Waste Catalogue code(s) (Decision 2001/118/CE): 16 01 14\* (antifreeze fluids containing dangerous substances). This EWC code is only a general indication, and takes into account the original composition of the product and its intended use. The user has the responsibility of choosing the right EWC code, considering the actual use of the product, alterations and contaminations.

Additional information : Do not cut, weld, drill, burn or incinerate empty containers or drums, unless they have been cleaned, and declared safe.

Ecology - waste materials : The product as it is does not contain halogenated substances.

EURAL code (EWC) : 16 01 14\* - antifreeze fluids containing dangerous substances

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.2. UN proper shipping name</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
None.				

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not regulated

# Eni Antifreeze Ready

## Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

### Rail transport

Not regulated

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

IBC code : Not applicable.

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Other information, restriction and prohibition regulations : Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). (et sequens). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (et sequens). Directives 89/391/CEE, 89/654/CEE, 89/655/CEE, 89/656/CEE, 90/269/CEE, 90/270/CEE, 90/394/CEE, 90/679/CEE, 93/88/CEE, 95/63/CE, 97/42/CE, 98/24/CE, 99/38/CE, 99/92/CE, 2001/45/CE, 2003/10/CE, 2003/18/CE (Health and safety on the workplace). Directive 2012/18/CE (Control of major-accident hazards involving dangerous substances). Directive 2004/42/CE (Limitation of emissions of Volatile Organic Compounds). Directive 98/24/EC (protection of the health and safety of workers from the risks related to chemical agents at work). Directive 92/85/CE (measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding). Substances Depleting the Ozone layer (1005/2009) - Annex I Substances (ODP). Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC. Regulation EU (649/2012) - Export and Import of hazardous chemicals (PIC).

#### REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(b)	Eni Antifreeze Ready ; ethanediol; ethylene glycol ; Methyl-1H-benzotriazole ; 2-ethylhexanoic acid	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
3(c)	Methyl-1H-benzotriazole	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1
30.	disodium tetraborate pentahydrate	Substances which are classified as reproductive toxicant category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 5 or Appendix 6, respectively.

#### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

#### REACH Candidate List (SVHC)

Contains substance(s) listed on the REACH Candidate List in concentrations  $\geq 0.1\%$  or SCL: disodium tetraborate pentahydrate (EC 215-540-4, CAS 12179-04-3)

#### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

#### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

# Eni Antifreeze Ready

## Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.1.2. National regulations

National adoption of EU Directives concerning health and safety on the workplace.

Relevant national laws on protection of the health of pregnant workers (National adoption of Dir. 92/85/EEC).

National adoption of EU Directives concerning control of major-accident hazards involving dangerous substances (2012/18/CE).

Relevant national laws on prevention of water pollution.

### France

Maladies professionnelles (F)	
Code	Description
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide

### Germany

Employment restrictions	: Employment prohibitions or restrictions on the protection of young people at work according to § 22 JArbSchG in the case of formation of hazardous substances have to be observed.
National Rules and Recommendations	: TRGS 400: Hazard assessment for activities involving Hazardous Substances. TRGS 401: Risks resulting from skin contact - identification, assessment, measures. TRGS 402: Identification and Assessment of the Risks from Activities involving Hazardous Substances: Inhalation Exposure. TRGS 500: Protective measures. TRGS 555: Working instruction and information for workers. TRGS 900: Occupational Exposure Limits.
VbF class (D)	: Not applicable.
Water hazard class (WGK) (D)	: WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).
WGK remark	: Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS).
Storage class (LGK, TRGS 510)	: LGK 12 - Non-combustible liquids.
Chemicals Prohibition Ordinance (ChemVerbotsV)	: This product is subject to ChemVerbotsV Annex 2 Entry 1. The following requirements must be observed: authorization requirement (according to § 6 paragraph 1 sentence 1), basic requirements for carrying out the delivery (according to § 8 paragraph 1, 3 and 4), identification and documentation (according to § 9 paragraph 1 to 3) and exclusion of the shipping route (according to § 10).
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

### Netherlands

Saneringsinspanningen	: C - Minimize discharge
SZW-lijst van kankerverwekkende stoffen	: None of the components are listed
SZW-lijst van mutagene stoffen	: None of the components are listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	: None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	: disodium tetraborate pentahydrate is listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: disodium tetraborate pentahydrate, 2-ethylhexanoic acid are listed

### Denmark

Danish National Regulations	: Young people under 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with it
-----------------------------	---

## 15.2. Chemical safety assessment

For this mixture a chemical safety assessment has been not carried out

# Eni Antifreeze Ready

## Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

**A chemical safety assessment has been carried out for the following components of this mixture::**

ethanediol; ethylene glycol  
disodium tetraborate pentahydrate

### SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Notes
	First issue.		

Abbreviations and acronyms:	
	Complete text of the H phrases quoted in this Safety Data Sheet. These phrases are reported here for information only, and MAY NOT correspond to the classification of the product.
	N/A = not applicable
	N/D = not available
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	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Effective concentration for 50 percent of test population (median effective concentration)
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Lethal concentration for 50 percent of test population (median lethal concentration)
LD50	Lethal dose for 50 percent of test population (median lethal dose)
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals, Regulation (EC) No 1907/2006
RID	Regulation concerning the International Carriage of Dangerous Goods by Railways
SDS	Safety Data Sheet
STP	Sewage treatment plant
vPvB	Very Persistent and Very Bioaccumulative

Data sources

: This Safety Data Sheet is based on the real characteristics of the components and their combination, taking into account the information provided by the suppliers.

# Eni Antifreeze Ready

## Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

Training advice	: Provide adequate training to professional operators for the use of PPEs, according to the information contained in this Safety Data Sheet.
Other information	: Do not use the product for any purposes that have not been advised by the manufacturer.

### Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
H302	Harmful if swallowed.
H360FD	May damage fertility. May damage the unborn child.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
Repr. 1B	Reproductive toxicity, Category 1B
Repr. 2	Reproductive toxicity, Category 2
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Acute Tox. 4 (Oral)	H302	Calculation method
Repr. 1B	H360FD	
STOT RE 2	H373	Calculation method

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.