

# Antifreeze Premium Longlife Renault / Nissan

### concentrate

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 28-6-2011 Revision date: 23-7-2021 Supersedes: 20-10-2020 version: 1.8

SECTION 1: Identification of the substance/mixture and of the company/undertaking						
	1.1. Product identifier					
Product form : Mixture						
Product name		: Antifreeze Premium Longli	fe Renault / Nissan concentrate			
UFI		: 8VK5-EV53-9Y79-H77R				
Product code		: 86000ARN				
Type of product		: Anti-freezing agents				
Product group		: Mixture				
1.2. Relevant id	entified uses of the substa	nce or mixture and uses ac	dvised against			
1.2.1. Relevant ide	entified uses					
Main use category		: Professional use				
Function or use ca	tegory	: Anti-freezing agents				
No additional inform <b>1.3. Details of the</b> MPM International Cyclotronweg 1	2629 HN Delft Delft - Nederland					
	<u>l</u> - <u>www.mpmoil.com</u>					
	telephone number					
Emergency numbe	r	: +31 (0)15 2514030 (08.00 - 17	7.00 GMT+1)			
Country	Official advisory body	Address	Emergency number	Comment		
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)			
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188			

SECTION 2: Hazards identification			
2.1. Classification of the substance or mixtur	е		
Classification according to Regulation (EC) No. 12 Acute toxicity (oral), Category 4	72/2008 [CLP]	H302	
Specific target organ toxicity — Repeated exposure, C	ategory 2	H373	
Full text of H-statements: see section 16			
Adverse physicochemical, human health and envi	ronmental effec	ts	
No additional information available			
2.2. Label elements			
Labelling according to Regulation (EC) No. 1272/2	008 [CLP]		
Hazard pictograms (CLP)			
	GHS07	GHS08	
CLP Signal word	: Warning		
Hazardous ingredients	: ethanediol; eth	nylene glycol	

Hazard statements (CLP)

- gıy
- : H302 Harmful if swallowed.
- H373 May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

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Precautionary statements (CLP)	: P102 - Keep out of reach of children.
	P260 - Do not breathe dusts or mists.
	P264 - Wash hands thoroughly after handling.
	P270 - Do not eat, drink or smoke when using this product.
	P101 - If medical advice is needed, have product container or label at hand.
	P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor.
	P501 - Dispose of Contents and container to an approved waste disposal plant.

#### 2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients
3.1. Substances
Not applicable

#### 3.2. Mixtures

J.Z. MIALULES				
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
ethanediol; ethylene glycol	(CAS-No.) 107-21-1 (EC-No.) 203-473-3 (EC Index-No.) 603-027-00-1 (REACH-no) 01-2119456816-28	> 80 - < 98	Acute Tox. 4 (Oral), H302 STOT RE 2, H373	
Sodium-2-ethylhexanoaat	(CAS-No.) 19766-89-3 (EC-No.) 243-283-8	> 0,1 - < 3	Repr. 2, H361d	
Glycerol	(CAS-No.) 56-81-5 (EC Index-No.) 200-289-5	≥ 0,1 – ≤ 1	Not classified	

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

SECTION 4: First aid measures 4.1. Description of first aid measures			
General	: If you feel unwell, seek medical advice (show the label where possible).		
After inhalation	: If unconscious, place in the recovery position and seek medical advice. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.		
After skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.		
After eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophtalmologist if irritation persists.		
After ingestion	: If the person is fully conscious, make him/her drink plenty of water. Never give an unconscious person anything to drink. Chronic (long-term) health effects may result from repeated overexposure. Do NOT induce vomiting. Get immediate medical advice/attention.		
4.2. Most important symptoms and effects, both acute and delayed			
Symptoms/effects	: Ethylene glycol is harmful if swallowed. Symptoms may be delayed. Can include nausea, vomiting, cramps, can affect the level of consciousness . Can give damage to kidney.		

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

SYMPTOMS MAY BE DELAYED. Treat symptomatically.

<b>SECTION 5: Firefighting measures</b>	
5.1. Extinguishing media	
Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
Unsuitable extinguishing media	: None known.
5.2. Special hazards arising from the su	ubstance or mixture
Fire hazard	: In case of fire and/or explosion do not breathe fumes.
Explosion hazard	: Heat from a fire could result in drum bursting.
5.3. Advice for firefighters	
Precautionary measures fire	: Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Self-contained breathing apparatus with an air line.
Other information	<ul> <li>Exercise caution when fighting any chemical fire. Do not enter fire area without proper protective equipment, including respiratory protection. Use a water spray to cool exposed surfaces and to protect fire-fighters.</li> </ul>

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SECTION 6: Accidental release measures				
6.1. Personal precautions, protective equipment and emergency procedures				
: Stop leak if safe to do so. Avoid inhalation of vapours. Avoid contact with eyes. Avoid contact with skin. Ensure adequate ventilation, especially in confined areas.				
: Wear suitable protective clothing and eye/face protection.				
: Wear suitable protective clothing and eye/face protection.				
Avoid release to the environment. Notify authorities if liquid enters sewers or public waters.				
6.3. Methods and material for containment and cleaning up				
: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.				
: Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.				

#### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13. Information on safe handling - see Section 7.

SECTION 7: Handling and storage				
7.1. Precautions for safe handling				
Additional hazards when processed	: Avoid all eye and skin contact and do not breathe vapour and mist. Toxic if swallowed.			
Precautions for safe handling	: Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.			
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.			
7.2. Conditions for safe storage, including any incompatibilities				
Technical measures	: Provide local exhaust or general room ventilation. Keep in a cool, well-ventilated place away from heat.			
Incompatible products	: Acids.			
Information on mixed storage	: Keep in a cool, well-ventilated place away from acids.			
Storage area	: Store in a closed container. Keep in a cool, well-ventilated place. Keep away from food, drink and animal feedingstuffs. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.			
7.3. Specific end use(s)				

No additional information available

SECTION 8: Exposure controls/personal protection 8.1. Control parameters					
ethanediol; ethylene glyc	ethanediol; ethylene glycol (107-21-1)				
EU	IOELV TWA (mg/m <sup>3</sup> )	52 mg/m³			
EU	IOELV TWA (ppm)	20 ppm			
EU	IOELV STEL (mg/m <sup>3</sup> )	104 mg/m <sup>3</sup>			
EU	IOELV STEL (ppm)	40 ppm			
EU	Notes	Skin			
EU	Regulatory reference	Commission Directive 2000/39/EC			
Germany	Notes				
Ireland	Local name	Ethane-1,2-diol [Ethylene glycol]			
Ireland	OEL (8 hours ref) (mg/m³)	10 mg/m³ particulate 52 mg/m³ vapour			
Ireland	OEL (8 hours ref) (ppm)	20 ppm vapour			
Ireland	OEL (15 min ref) (mg/m3)	104 mg/m³ vapour			
Ireland	OEL (15 min ref) (ppm)	40 ppm vapour			

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ethanediol; ethylene glycol (107-21-1)				
Ireland	Notes (IE)	Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body), IOELV (Indicative Occupational Exposure Limit Values)		
Ireland	Regulatory reference	Chemical Agents Code of Practice 2020		
United Kingdom	Local name	Ethane-1,2-diol		
United Kingdom	WEL TWA (mg/m³)	10 mg/m³ particulate 52 mg/m³ vapour		
United Kingdom	WEL TWA (ppm)	20 ppm vapour		
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	104 mg/m³ vapour		
United Kingdom	WEL STEL (OEL STEL) [ppm]	40 ppm vapour		
United Kingdom	Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)		
United Kingdom	Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE		
8.2. Exposure controls				

#### Technical measures:

Ensure adequate ventilation of the storage area. Provide adequate ventilation.

### Personal protective equipment:

Gloves. Protective goggles.

Hand protection:					
protective gloves					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	> 0,35		EN ISO 374
Fue mucho official					

#### Eye protection:

No special eye protection equipment recommended under normal conditions of use. Eye protection should only be necessary where hot liquid could be splashed or sprayed

#### Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use

#### Respiratory protection:

If technical suction or ventilation measures are not possible or are insufficient, protective breathing apparatus must be worn.

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



#### Environmental exposure controls:

Avoid release to the environment.

#### Other information:

Always wash hands after handling the product. Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical 9.1. Information on basic physical and o		
Physical state	: Liquid	
Appearance	: Hygroscopic.	
Colour	: Yellow.	
Odour	: odourless.	
Odour threshold	: No data available	
рН	: 8,3	
Relative evaporation rate (butylacetate=1)	: No data available	

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Melting point	: No data available
Freezing point	: -23 °C
Boiling point	: 165 °C 760 mm Hg
Flash point	: 115 °C CC (closed cup)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 0,05 kPa 20°C
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1115 kg/m³ 20°C
Solubility	: Acetone. alcohols. water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	
Miscibility	: water,acetone,alcohol

 SECTION 10: Stability and reactivity

 10.1. Reactivity

 No additional information available

 10.2. Chemical stability

 The product is stable at normal handling and storage conditions.

 10.3. Possibility of hazardous reactions

 No dangerous reactions known under normal conditions of use.

 10.4. Conditions to avoid

 Moisture. No naked flames, sparks, and do not smoke.

 10.5. Incompatible materials

 Strong acids. Strong oxidizing agent. Nitrates. Peroxides, e.g. hydrogen peroxide. Chlorates.

 10.6. Hazardous decomposition products

ketones. Aldehydes. When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, nitrogen oxides (NOx), sulphur compounds.

<b>SECTION 11: Toxicological information</b>	
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
ATE CLP (oral)	500 mg/kg bodyweight

ethanediol; ethylene glycol (107-21-1)	
LD50 oral rat	7712 mg/kg bodyweight
LD50 dermal rat	> 3500 mg/kg Mouse
LD50 dermal rabbit	10600 mg/kg
LC50 Inhalation - Rat	> 2,5 mg/l/6Hrs

Sodium-2-ethylhexanoaat (19766-89-3)	
LD50 oral rat	2043 mg/kg bodyweight OECD 401
LD50 dermal rat	> 2000 mg/kg bodyweight OECD 402

Glycerol (56-81-5)	
LD50 oral rat	12600 mg/kg
LD50 dermal rabbit	10000 mg/kg

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Skin corrosion/irritation	: Not classified
	pH: 8,3
Serious eye damage/irritation	: Not classified
	pH: 8,3
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
ethanediol; ethylene glycol (107-21-1)	
NOAEL (chronic, oral, animal/male, 2 years)	1000 mg/kg bodyweight
NOAEL (chronic, oral, animal/female, 2 years)	1500 mg/kg bodyweight
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).
ethanediol; ethylene glycol (107-21-1)	, , , , , , , , , , , , , , , , , , , ,
NOAEL (oral, rat, 90 days)	200 mg/kg bodyweight/day
Sodium-2-ethylhexanoaat (19766-89-3)	
NOAEL (oral, rat, 90 days)	≈ 300 mg/kg bodyweight EPA OTS 795.2600
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	<ul> <li>This product contains ethylene glycol (EG). The toxicity of EG via inhalation or skin contact is expected to be slight at room temperature. The estimated oral lethal dose is about 100 cc (3.3 oz.) for an adult human. Ethylene glycol is oxidized to oxalic acid which results in the deposition of calcium oxalate crystals mainly in the brain and kidneys. Early signs and symptoms of EG poisoning may resemble those of alcohol intoxication. Later, the victim may experience nausea, vomiting, weakness, abdominal and muscle pain, difficulty in breathing and decreased urine output. When EG was heated above the boiling point of water, vapors formed which reportedly caused unconsciousness, increased lymphocyte count, and a rapid, jerky movement of the eyes in persons chronically exposed. When EG was administered orally to pregnant rats and mice, there was an increase in fetal deaths and birth defects. Some of these effects occurred at doses that had no toxic effects on the mothers. We are not aware of any reports that EG causes reproductive toxicity in human beings.</li> <li>2-Ethylhexanoic acid (2-EXA) caused an increase in liver size and enzyme levels when repeatedly administered to rats via the diet. When administered to pregnant rats by gavage or in drinking water, 2-EXA caused teratogenicity (birth defects) and delayed postnatal development of the pups. Additionally, 2-EXA impaired female fertility in rats. Birth defects were seen in the offspring of mice who were administered sodium 2-ethylhexanoate via intraperitoneal injection during pregnancy.</li> </ul>
Other information	: Contains small amount Bitrex. Bitterant agent is a general description for chemical additives that are added to hazardous products to give it a bitter taste, which creates a strong aversion and as such avoids accidental poisonings for especially young children and household pets. It is often used in household cleaners, pesticides and also engine coolants. There are a number of possible chemicals that can be used, however, most commonly known is the Denatonium benzoate (CAS 3734-33-6.).

SECTION 12: Ecological information	
12.1. Toxicity	
General	: According to the criteria of the EC-classification and labelling "dangerous for the environment" (93/21/EEC) the material/product is not to be classified as dangerous to the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified
ethanediol; ethylene glycol (107-21-1)	
LC50 fish 1	72860 mg/l 96 hrs / Pimephales promelas
EC50 Daphnia 1	> 100 mg/l 48 hrs
EC50 other aquatic organisms 2	> 9600 mg/l 96 hrs / Selenastrum capricornutum

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EC50 96h - Algae [1]	3536 mg/l grenn algae
EC50 96h - Algae [2]	6500 – 13000 mg/l Pseudokirchneriella subcapitata
NOEC (chronic)	15380 mg/l Fish Early Life Stage / Pimephales promelas / 7 days

Sodium-2-ethylhexanoaat (19766-89-3)	
LC50 fish 1	> 100 mg/l Oryzias latipes
EC50 Daphnia 1	910 mg/l Daphnia magna
EC50 72h - Algae [1]	49,3 mg/l Desmodesmus subspicatus
LOEC (chronic)	63 mg/l Daphnia magna @21d
NOEC (chronic)	25 mg/l Daphnia magna @21d
12.2. Persistence and degradability	
ethanediol; ethylene glycol (107-21-1)	
Biodegradation	Readily biodegradable
12.3. Bioaccumulative potential	
ethanediol; ethylene glycol (107-21-1)	
Log Pow	-1,36
Bioaccumulative potential	There is no bioaccumulation.
12.4. Mobility in soil	
Antifreeze Premium Longlife Renault / Nissan concentrate	
Soil	Avoid release to the environment.

ethanediol; ethylene glycol (107-21-1)	
Soil	This material has low volatility and is water soluble hence the potential for mobility is high.
12.5. Results of PBT and vPvB assessment	
No additional information available	
12.6. Other adverse effects	
No additional information available	

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste disposal recommendations	: Dispose as hazardous waste.
European List of Waste (LoW) code	: 16 01 14* - antifreeze fluids containing dangerous substances

## SECTION 14: Transport information In accordance with ADR / IMDG

ADR	IMDG					
14.1. UN number						
Not applicable	le Not applicable					
14.2. UN proper shipping name						
Not applicable	Not applicable					
14.3. Transport hazard class(es)						
Not applicable	Not applicable					
14.4. Packing group						
Not applicable	Not applicable					
14.5. Environmental hazards						
Dangerous for the environment : No						
No supplementary information available						

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14.6. Special precautions for user

**Overland transport** 

No data available

#### Transport by sea

No data available

14.7. Transport in bulk according to Annex II of Marpol and the 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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### 15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of char	dication of changes:					
Section Changed ite		tem	Change	Comments		
	Supersede	s	Modified			
	Revision date		Modified			
Full text of H- and EUH-statements:						
Acute Tox. 4 (Oral)		Acute toxicity (oral), Category 4				
Repr. 2		Reproductive toxicity, Category 2				
STOT RE 2		Specific target organ toxicity — Repeated exposure, Category 2				
H302		Harmful if swallowed.				
H361d		Suspected of damaging the unborn child.				
H373		May cause damage to organs through prolonged or repeated exposure.				

SDS MPM REACH

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.