87000A



Antifreeze Premium Longlife G12++ Concentrate

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Revision date: 3-10-2013 version: 2.3

1.1. Product	identifier			
Product form :		Mixture		
		Antifreeze Premium Longlife G12	++ Concentrate	
		37000A		
1.2. Relevant	identified uses of the substanc	e or mixture and uses advised	against	
1.2.1. Relevant	identified uses			
Main use category	: F	Professional use		
Function or use cat	egory : A	Anti-freezing agents		
1.2.2. Uses ad	vised against			
No additional inform	•			
	f the supplier of the safety data	sheet		
Г +31 (0)15 251403	30 - F +31 (0)15 2514031			
nfo@mpmoil.nl - w	30 - F +31 (0)15 2514031 ww.mpmoil.nl icy telephone number	+31 (0)15 2514030 (08.00 - 17.00) GMT+1)	
T +31 (0)15 251403 nfo@mpmoil.nl - w 1.4. Emerger Emergency numbe	30 - F +31 (0)15 2514031 <u>ww.mpmoil.nl</u> ncy telephone number r : +	⊦31 (0)15 2514030 (08.00 - 17.00 Address	,	Comment
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Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements		
Labelling according to Regulation	n (EC) No. 1272/2008 [CLP]	
Hazard pictograms (CLP)	GHS07 GHS08	
CLP Signal word	: Warning	
Hazardous ingredients	: 1,2-Ethanediol	
Hazard statements (CLP)	: H302 - Harmful if swallowed H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure	
Precautionary statements (CLP)	 P260 - Do not breathe dust, fume, gas, mist, spray, vapours. P264 - Wash the hands thoroughly after handling P270 - Do not eat, drink or smoke when using this product. P301+P312 - IF SWALLOWED: Call a doctor, a POISON CENTER if you feel unwell P330 - Rinse mouth 	
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P501 - Dispose of contents/container to officially registered waste disposal company.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1,2-Ethanediol	(CAS-No.) 107-21-1 (EC-No.) 203-473-3 (EC Index-No.) 603-027-00-1 (REACH-no) 01-2119456816-28	60 - 98	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
Sodium-2-ethylhexanoaat	(CAS-No.) 19766-89-3 (EC-No.) 243-283-8	1 - 5	Repr. 2, H361d

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
After inhalation :	Take victim to fresh air, in a quiet place and if necessary take medical advice. In case of unconsciousness place in unconscious position and seek medical advice.
After skin contact	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. If irritation persists, consult a specialist.
After eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult a specialist.
After ingestion :	Do NOT induce vomiting. Let water be swallowed in little sips (dilution effect). Get immediate medical advice/attention. If the person is fully conscious, make him/her drink plenty of water. Never give an unconscious person anything to drink.
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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: powder, alcohol-resistant foam, water spray, carbon dioxide. Sand.	
Unsuitable extinguishing media	: None known.	
5.2. Special hazards arising from the su	bstance or mixture	
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	: Use water spray/stream to protect personnel and to cool endangered containers. Do not allow water used to extinguish fire to enter drains or waterways.	
SECTION 6: Accidental release measures		

6.1. Personal precautions, protective equipment and emergency procedures			
General measures	: Plug the leak, cut off the supply. Do not breathe vapour or spray. Provide adequate ventilation.		
6.1.1. For non-emergency personnel Protective equipment	: Wear suitable protective clothing and eye/face protection.		
6.1.2. For emergency responders Protective equipment	: Wear suitable protective clothing and eye/face protection.		

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6.2. Environmental precautions

Prevent spreading over great surfaces (e.g. by damming or installing oil booms). Do not flush into surface water or sewer system. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for	Methods and material for containment and cleaning up		
For containment	 Stop leak if safe to do so. Prevent spreading over great surfaces (e.g. by damming or installing oil booms). Extinguish all ignition sources. 		
Methods for cleaning up	: Clean up with absorbent material (for example sand, sawdust, neutral absorbent granule, silica gel).		

6.4. Reference to other sections

Information on disposal - see Section 13. Information on personal protective equipment - see Chapter 8. Information on safe handling - see Section 7.

SECTION 7: Handling and st	torage
7.1. Precautions for safe hand	lling
Precautions for safe handling	If suction of the immediate vicinity is impossible or insufficient, adequate airing of the working place must be ensured. Keep away from sources of ignition - No smoking. Avoid all eye and skin contact and do not breathe vapour and mist.
Hygiene measures	: When using do not eat, drink or smoke.
7.2. Conditions for safe storage	ge, including any incompatibilities
Technical measures	: Store in a well-ventilated place. Keep container tightly closed.
Incompatible products	: Strong acid.
Information on mixed storage	: Keep in cool, well-ventilated place away from acids.
Storage area	 Keep container tightly closed in a cool, well-ventilated place. Keep away from heat/sparks/open flames/hot surfaces No smoking.

7.3. Specific end use(s)

No additional information available

8.1. Control parameters

1,2-Ethanediol (107-21-1)		
EU	Local name	Ethylene glycol
EU	IOELV TWA (mg/m ³)	52 mg/m³
EU	IOELV TWA (ppm)	20 ppm
EU	IOELV STEL (mg/m ³)	104 mg/m ³
EU	IOELV STEL (ppm)	40 ppm
EU	Notes	Skin

8.2. Exposure controls

Technical measures:

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

Materials for protective clothing:

Suitable material: NR (Natural rubber (caoutchouc), Natural latex). neoprene. nitrile rubber. PVC (Polyvinyl chloride).

Hand protection:

Wear suitable gloves resistant to chemical penetration. In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

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 required clothing

Respiratory protection:

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

Other information:

The usual precautions for handling chemicals should be observed. Do not eat, drink or smoke during use.

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SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and chemical properties			
Physical state	: Liquid		
Appearance	: Hygroscopic.		
Colour	: red.		
Odour	: Low.		
Odour threshold	: No data available		
pH	: 8,6		
Relative evaporation rate (butylacetate=1)	: No data available		
Melting point	: -12 °C		
Freezing point	: No data available		
Boiling point	: 180 °C 760 mm Hg		
Flash point	: 122 °C CC (closed cup)		
Auto-ignition temperature	: 400 °C		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: No data available		
Vapour pressure	: 0,12 mm Hg 20°C		
Relative vapour density at 20 °C	: No data available		
Relative density	: No data available		
Density	: 1124 g/l 20°C		
Solubility	: Miscible with: Water. Alcohol. Acetone.		
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			

SECTION 10: Stability and reactivity

10.1. Reactivity

On burning: release of harmful/irritant gases/vapours e.g.: carbon monoxide - carbon dioxide.

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

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

10.5. Incompatible materials

Strong acid. Oxidizing substances.

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity	Oral: Harmful if swallowed.	
ATE CLP (oral)	625,000 mg/kg bodyweight	
1,2-Ethanediol (107-21-1)		
LD50 oral rat	7712 mg/kg	
LD50 dermal rat	> 3500 mg/kg Mouse	
LD50 dermal rabbit	10600 mg/kg	
LC50 inhalation rat (mg/l)	> 2,5 mg/l/6Hrs	

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in corrosion/irritation	: Not classified
	pH: 8,6
rious eye damage/irritation	: Not classified
	pH: 8,6
espiratory or skin sensitisation	: Not classified
erm cell mutagenicity	: Not classified
arcinogenicity	: Not classified
,2-Ethanediol (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
productive toxicity	: Not classified
OT-single exposure	: Not classified
OT-repeated exposure	: May cause damage to organs (kidneys) through prolonged or repeated exposure.
,2-Ethanediol (107-21-1)	
NOAEL (oral, rat, 90 days)	200 mg/kg bodyweight/day
piration hazard	: Not classified
tential adverse human health effects and mptoms	 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. 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.
her 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.).
ECTION 12: Ecological information	

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.
1,2-Ethanediol (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
NOEC (chronic)	15380 mg/l Fish Early Life Stage / Pimephales promelas / 7 days

12.2. Persistence and degradability

1,2-Ethanediol (107-21-1)		
Biodegradation	Readily biodegradable	
12.3. Bioaccumulative potential		
1,2-Ethanediol (107-21-1)		
Log Pow	-1.36	
Bioaccumulative potential	There is no bioaccumulation.	
12.4. Mobility in soil		
Antifreeze Premium Longlife G12++ Concentrate		
Soil	Prevent soil and water pollution.	
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1,2-Ethanediol (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	t de la construcción de la constru			
No additional information available				
12.6. Other adverse effects				
No additional information available				
SECTION 13: Disposal considerations				
13.1. Waste treatment methods				
Waste disposal recommendations	: Dispose as hazardous waste.			
Waste materials	: Waste disposal according to official state regulations.			
European List of Waste (LoW) code	: 16 01 14* - antifreeze fluids containing dangerous substances			
SECTION 14: Transport information				
In accordance with ADR / RID / IMDG / IATA / AD				
ADR	IMDG			
14.1. UN number				
Not applicable	Not applicable			
14.2. UN proper shipping name				
Not applicable	Not applicable			
14.3. Transport hazard class(es)	Neterrieski			
Not applicable	Not applicable			
Not applicable	Not applicable			
14.4. Packing group	Not eveloped a			
Not applicable	Not applicable			
14.5. Environmental hazards Dangerous for the environment : No	Dangerous for the environment : No			
	Marine pollutant : No			
No supplementary information available				

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

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

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

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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