

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 1-5-2018 Revision date: 22-10-2020 Supersedes: 6-2-2020 version: 1.2

	entifier			
Product form : Mixture				
Trade name		: Antifreeze Low Phosphate	Concentrate	
UFI		MHX3-RVDQ-4Y7C-X2S5		
Product code		: 86000ALP		
.2. Relevant id	lentified uses of the substa	nce or mixture and uses ac	lvised against	
.2.1. Relevant id	entified uses			
Main use category		: Professional use		
unction or use ca	ategory	: Anti-freezing agents		
.2.2. Uses advis	od against			
lo additional infor	•			
.3. Details of t	he supplier of the safety da	ta sheet		
IPM International				
Cyclotronweg 1 629 HN Delft Del	ft Nederland			
	)30 - F +31 (0)15 2514031			
nsds@mpmoil.nl				
	telephone number	.04 (0)45 054 4000 (00 00 45		
mergency number		: +31 (0)15 2514030 (08.00 - 17	.00 GMT+1)	
Country	Official advisory body	Address	Emergency number	Comment
reland	National Poisons Information	Beaumont Hospital Beaumont	: +353 1 8379964	
	Centre Beaumont Hospital	Road 9 Dublin		
	· ·			
Inited Kingdom	Guy's & St Thomas' Poisons Unit	Avonley Road SE14 5ER London	+44 20 7188 7188	
	-			
	Medical Toxicology Unit,			
	Guy's & St Thomas' Hospital			
	Guy's & St Thomas' Hospital Trust			
	Guy's & St Thomas' Hospital Trust			
	Guy's & St Thomas' Hospital Trust	ture		
.1. Classificati	Guy's & St Thomas' Hospital Trust			
2.1. Classificati	Guy's & St Thomas' Hospital Trust azards identification on of the substance or mix cording to Regulation (EC) No.	1272/2008 [CLP]		
.1. Classificati	Guy's & St Thomas' Hospital Trust lazards identification on of the substance or mix cording to Regulation (EC) No.	1272/2008 [CLP] H302		
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P330 - Rinse mouth.

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### 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	80 – 98	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
Sodiummolybdaatdihydrate	(CAS-No.) 10102-40-6 (EC-No.) 231-551-7 (REACH-no) 01-2119489495-21	0,1 – 1	Not classified

#### Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
After inhalation	: If necessary 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 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. Get immediate medical advice/attention. Do NOT induce vomiting.
4.2. Most important symptoms and effects	s, 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

Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Dry chemical, CO2, dry sand, or alcohol-resistant foam.
Unsuitable extinguishing media	: None known.
5.2. Special hazards arising from the substa	nce 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	: 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.

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
	: Stop leak if safe to do so. Ensure adequate ventilation, especially in confined areas.	
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.	
6.2. Environmental precautions		
Avoid release to the environment. Notify authorities if liquid enters sewers or public waters.		
6.3. Methods and material for containment and cleaning up		
For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.	

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Methods for cleaning up : 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		
Precautions for safe handling	: Avoid all eye and skin contact and do not breathe vapour and mist. Keep away from sources of ignition - No smoking. Provide sufficient air exchange and/or exhaust.	
Hygiene measures	: Always wash hands after handling the product. Do not eat, drink or smoke when using this product.	
7.2. Conditions for safe storage, including an	ny incompatibilities	
Technical measures	: Provide local exhaust or general room ventilation. Store in a well-ventilated place. Keep container tightly closed.	
Incompatible products	: Acids.	
Information on mixed storage	: Keep in a cool, well-ventilated place away from acids.	
Storage area	: Keep in a cool, well-ventilated place. Store in a closed container. 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		
1,2-Ethanediol (107-21-1)		
EU	Local name	Etilen glikol
EU	IOELV TWA (mg/m³)	52 mg/m³
EU	IOELV TWA (ppm)	20 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	104 mg/m³
EU	IOELV STEL (ppm)	40 ppm
EU	Notes	Skin
EU	Regulatory reference	Commission Directive 2000/39/EC
Germany	TRGS 910 Acceptable concentration 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
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

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#### 8.2. Exposure controls

#### **Technical measures:**

Ensure good ventilation of the work station.

### Personal protective equipment:

Gloves. Protective goggles.

## Materials for protective clothing:

Wear suitable protective clothing,	aloves and avalfage protection

#### Hand protection:

Wear suitable gloves resistant to chemical penetration

Wear suitable gloves resistant to chemical penetration				
Material	Permeation	Thickness (mm)	Penetration	Standard
Neoprene rubber (HNBR)	6 (> 480 minutes)	>0.35		
Eye protection:				
Protective goggles				
Skin and body protection:				
No special clothing/skin protection equipment is recommended under normal conditions of use				
Respiratory protection:				
i	Material Neoprene rubber (HNBR) on: protection equipment is r	Material       Permeation         Neoprene rubber (HNBR)       6 (> 480 minutes)         on:       Image: Commended under normalization of the second of the s	Material       Permeation       Thickness (mm)         Neoprene rubber (HNBR)       6 (> 480 minutes)       >0.35         on:	Material       Permeation       Thickness (mm)       Penetration         Neoprene rubber (HNBR)       6 (> 480 minutes)       >0.35          on:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation

### Personal protective equipment symbol(s):



#### Other information:

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

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and c	hemical properties	
Physical state	: Liquid	
Colour	: dark blue.	
Odour	: slight.	
Odour threshold	: No data available	
рН	: 8,4	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: -37 °C 50% diluted	
Boiling point	: 178 °C	
Flash point	: 122 °C CC (closed cup)	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: No data available	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: No data available	
Density	: 1119 g/l 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	

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9.2. Other information	
Miscibility	

: water,acetone,alcohol

SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable under normal conditions of use.	
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	
Acids. Oxidizing agent.	
10.6. Hazardous decomposition products	

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

SECTION 11: Toxicological information	
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

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	> 2,5 mg/l/6Hrs
Skin corrosion/irritation	: Not classified
	pH: 8,4
Serious eye damage/irritation	: Not classified
	pH: 8,4
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
1,2-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
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
<b>5</b>	
SIOI-repeated exposure	: May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).
1,2-Ethanediol (107-21-1)	
NOAEL (oral, rat, 90 days)	200 mg/kg bodyweight/day
	: May cause damage to organs (kidneys) through prolonged or repeated exposure (oral)

Aspiration hazard

: Not classified

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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
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
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
12.2. Persistence and degradability	
1,2-Ethanediol (107-21-1)	
Biodegradation	Readily biodegradable
12.3. Bioaccumulative potential	
1,2-Ethanediol (107-21-1)	
Bioaccumulative potential	There is no bioaccumulation.
12.4. Mobility in soil	
Antifreeze Low Phosphate Concentrate	
Soil	Avoid release to the environment.
1,2-Ethanediol (107-21-1)	

1,2-Ethaneuloi (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 odditional information ovailable	

No additional information available

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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

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)		
Not applicable	Not applicable	
14.4. Packing group		
Not applicable	Not applicable	
14.5. Environmental hazards		
Not applicable	Not applicable	
No supplementary information available		
14.6. Special precautions for user		

Overland transport

Not applicable

### Transport by sea

Not applicable

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	
Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H302	Harmful if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure.

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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.