

SAFETY DATA SHEET According to Regulation (EU) No. 2015/830 OLAR ANTI-FREEZE G12+ CONCENTRATE

1.	Identification of the subst	ance/mixture and of the company/undertaking
1.1.	Product identifier	
	Product name	OLAR ANTI-FREEZE G12+ CONCENTRATE
1.2.	Relevant identified uses of	the substance or mixture and uses advised against
	Identified uses	Anti-freezing agents
1.3.	. Details of the supplier of the safety data sheet	
	Company name	Rchemie International Kimya San. Ve Tic. Ltd. Şti.
	Address	Tepeören iTOSB Mah. 8. Cad. No:10 Tuzla/istanbul
	Tel	+90 216 504 61 77
	Fax	+90 216 504 61 79
	E-mail	www.olarlubricants.com

2. Hazards Identification

2.1.	Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 [CLP]	
	Health hazards	Acute Tox. 4, H302 Harmful if swallowed Specific target organ toxicity – H373 Repeated exposure, Category 2 Serious eye damage/eye irritation, Category 2 - H319
	Additional information	For full text of Hazard- and EU Hazard-statements: see section 16.
2.2.	Label Elements	

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

Hazard pictograms





2.3.

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Signal word Warning	
Hazard statements	H302 Harmful if swallowed
	H373: May cause damage to organs <or all="" organs<="" state="" td=""></or>
	affected, if known> through prolonged or repeated
	exposure <state conclusively="" exposure="" if="" is="" it="" of="" proven<="" route="" td=""></state>
	that no other routes of exposure cause the hazard>). Affected organs: kidney
Precautionary stateme	nts P501 Dispose of contents/container of as hazardous waste in
	accordance with local/regional/ national/international regulations.
	P337+P313 - If eye irritation persists: Get medical advice/attent
	P305+P351+P338 - If in eyes: Rinse cautiously with water for
	several minutes. Remove contact lenses, if present and easy to
	do. Continue rinsing.
	P280 - Wear face protection, eye protection
	P264 Wash hands thoroughly after handling
	P270 Do not eat, drink or smoke when using this product
	P301 + P312 IF SWALLOWED: Call a POISON CENTRE or
	doctor/physician if you feel unwell
	P330 Rinse mouth
	P501 Dispose of contents/container to the authorised waste
	disposal centre / waste combustion plant
	P260 Do not breathe dust/fume/gas/mist/vapours/spray.
	Supplemental Hazard information (EU): none.
other Hazards	No additional information available



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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 - 99	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
Potassium 2- ethylhexanoate	(CAS-No.) 3164-85-0 (EC-No.) 221-625-7 (EC Index-No.) 221- 625-7	1 - 3	Skin Irrit. 2, H315 Eye Dam. 1, H318 Repr. 2, H361d
POTASSIUM SUCCINATE	(CAS-No.) 22445-04-1 (EC Index-No.) 607- 079-6	1 - 2	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

4. First aid measures

4.1. Description of first aid measures

Inhalation	Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thorougly with water. Get medical attention if any discomfort continues.
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to



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rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

EffectsEthylene glycol is harmful if swallowed. 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. The effects might be delayed. After swallowing immediate medical aid is necessary.

5.	Firefighting measures	
5.1.	Extinguishing media	
	Suitable extinguishing media	Choose extinguishing media suitable for surrounding fire. Alcohol -resistant foam, dry chemical powder, carbon dioxide (CO 2), water mist.
	Unsuitable extinguishing media	None known.
5.2.	Special hazards arising fro	om the substance or mixture
	Hazardous combustion products	Heat from a fire could result in drum bursting.
5.3.	Advice for firefighters	
	Protective actions during firefighting	Avoid breathing fire gases or vapours. Fight fire from safe distance or protected location. Control run-off water by containing and keeping it out of sewers and watercourses.
	Special protective equipment for firefighters	Use protective equipment appropriate for surrounding materials.

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6.	Accidental release measures		
6.1.	Personal precautions, protective equipment and emergency procedures		
	Personal precautions	For personal protection, see Section 8. In case of spills, beware of slippery floors and surfaces.	
6.2.	Environmental precauti	ons	
	Environmental precautions	Do not discharge into drains or watercourses or onto the ground. Avoid or minimise the creation of any environmental contamination. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.	
6.3.	Methods and material	for containment and cleaning up	
	Methods for cleaning up	Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses. For waste disposal, see Section 13.	
6.4.	Reference to other sect	ions	
	Reference to other sections	For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see section 13.	
7.	Handling and storage		
7.1.	Precautions for safe ha	andling	
	Usage precautions	Avoid spilling. Avoid contact with eyes. Keep away from heat, from sources of ignition.	
7.2.	Conditions for safe sto	rage, including any incompatibilities	
	Storage precautions	Store in tightly-closed, original container in a dry, cool and well-ventilated place.	
7.3.	Specific end use(s)		



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Specific end use(s) None

8. Exposure Controls/personal protection

Control parameters 8.1.

1,2-Ethanediol (107-21-1)		
EU	Local name	Ethylene glycol
EU	IOELV TWA (mg/m ³)	52 mg/m ³
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
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)	10 mg/m ³ particulate
	(mg/m³)	52 mg/m³ vapour
Ireland	OEL (8 hours ref)	20 ppm vapour
	(ppm)	
Ireland	OEL (15 min ref)	104 mg/m ³ vapour
	(mg/m3)	
Ireland	OEL (15 min ref)	40 ppm vapour
	(ppm)	
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),

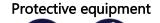
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		IOELV (Indicative
		Occupational Exposure Limit
		Values)
Ireland	Regulatory reference	Chemical Agents Code of
		Practice 2020
United Kingdom	Local name	Ethane-1,2-diol
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ particulate
		52 mg/m³ vapour
United Kingdom	WEL TWA (ppm)	20 ppm vapour
United Kingdom	WEL STEL (mg/m ³)	104 mg/m ³ vapour
United Kingdom	WEL 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



Appropriate engineering controls	Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients. Provide adequate ventilation.
Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.
Hand protection	Chemical-resistant, impervious gloves complying with an approved



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		standard should be worn if a risk assessment indicates skin contact is possible.
	Other skin and body protection	Wear apron or protective clothing in case of contact.
	Hygiene measures	Wash promptly if skin becomes contaminated. Promptly remove non- impervious clothing that becomes contaminated. When using do not drink or smoke. Contaminated clothing should be placed in a closed container for disposal or decontamination.
	Respiratory protection	No specific recommendations. Respiratory protection may be required if excessive airbone contamination occurs.
8.3.	Environmental exposure controls	Defined as a volatile organic chemical under directive 99/13. No special limits apply.
9.	Physical and Chemi	cal Properties
9. 9.1.	-	cal Properties physical and chemical properties
	-	
	Information on basic p	physical and chemical properties
	Information on basic p Appearance	bhysical and chemical properties Liquid.
	Information on basic p Appearance Flash point	bhysical and chemical properties Liquid. 115 °C
9.1.	Information on basic p Appearance Flash point Bulk density	bhysical and chemical properties Liquid. 115 °C
9.1.	Information on basic p Appearance Flash point Bulk density Other information	bhysical and chemical properties Liquid. 115 °C 1,110-1,145 g/cm ³ @15°C (ASTM D 4052) Not available.
9.1. 9.2.	Information on basic p Appearance Flash point Bulk density Other information Other information	bhysical and chemical properties Liquid. 115 °C 1,110-1,145 g/cm ³ @15°C (ASTM D 4052) Not available.
9.1. 9.2. 10.	Information on basic p Appearance Flash point Bulk density Other information Other information Stability and reactiv	bhysical and chemical properties Liquid. 115 °C 1,110-1,145 g/cm ³ @15°C (ASTM D 4052) Not available.



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	Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
10.3.	Possibility of hazardous	reactions
	Possibility of hazardous reactions	Hazardous reactions do not occur.
10.4.	Conditions to avoid	
	Conditions to avoid	High temperatures and sources of ignition.
10.5.	Incompatible materials	
	Materials to avoid	Oxidising agents, acids.
10.6.	Hazardous decomposition	on products
	Hazardous decompositi products	on Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).
11.	Toxicological informa	ition
11.1.	Information on toxicological effects	
	Acute toxicity	Oral: Harmful if swallowed
	ATE CLP (oral)	500 mg/kg

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

Potassium 2-ethylhexanoate (3164-85-0)	
LD50 oral rat	2043 mg/kg OECD 401
LD50 dermal rat	> 2000 mg/kg OECD 402



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Skin corrosion/irritation	Not classified
	рН: 7,5 - 9
Serious eye damage /irritation	Causes serious eye irritation
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity exposure	Not mutagenic
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.
STOT-repeated exposure	May cause damage to organs (kidneys) through prolonged or repeated exposure

1,2-Ethanediol (107-21-1)	
NOAEL (oral, rat, 90 days)	200 mg/kg bodyweight/day

Potassium 2-ethylhexanoate (3164-85-0)	
NOAEL (oral, rat, 90 days)	\approx 300 mg/kg bodyweight OECD 408

Aspiration hazard Not classified.



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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.
LC50 (fish 1):72860 mg/l/96h;
EC50 (Daphnia 1): 100 mg/l/48h;
EC50 (other aquatic organisms 2): 9600 mg/l/96h.
NOEC (chronic); 15380 mg/l Fish Early Life Stage / Pimephales promelas / 7 days

Potassium 2-ethylhexanoate (3164-85-0)		
LC50 fish 1	> 100 mg/l OECD 203 Oryzias latipes	
EC50 Daphnia 1	910 mg/l OECD 202 Daphnia magna	
EC50 Daphnia 2	112,1 mg/l static (bacteria) (DIN 38412, part 8,	
	Pseudomonas putida	
EC50 72h algae (1)	49,3 mg/l static read across CAS 149057-5	
	nominal	
NOEC (chronic)	25 mg/l Daphnia magna @21d	
NOEC chronic crustacea	25 mg/l Daphnia @OECD 211, Daphnia magna	
	21d	

12.2.	Persistence and	1,2-Ethanediol (107-21-1) Readily biodegi	adable
	degradability	Potassium 2-ethylhexanoate (3164-85-0)	99 % OECD 301E

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

12.4. Mobility in soil

Mobility

Prevent soil and water pollution.



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12.3.	Results of PBT and vPvB assessment	
	Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB.
12.6.	Other adverse effects	
	Other adverse effects	No information required.
13.	Disposal consideration	ns
13.1.	I. Waste treatment methods	
	Residual waste	Dispose of as hazardous waste. Recover or recycle if possible. Otherwise incineration. Dispose of in accordance with all local regulations.
	Contaminated packagin	g Drain container thoroughly. After draining, vent in a safe place. Send to drum recover or metal reclaimer.
	EU waste code	Not available.
14.	Transport information	
14. 14.1.		The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID)
14.1.	<u> </u>	The product is not covered by international regulations on the
14.1. 14.2. 14.3.	General UN Number	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID)
14.1. 14.2. 14.3.	General UN Number UN proper shipping	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID) Not regulated Not regulated
14.1. 14.2. 14.3. 14.4.	General UN Number UN proper shipping name Transport hazard class	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID) Not regulated Not regulated
14.1. 14.2. 14.3. 14.4. 14.5.	General UN Number UN proper shipping name Transport hazard class	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID) Not regulated Not regulated
14.1. 14.2. 14.3. 14.4. 14.5.	General UN Number UN proper shipping name Transport hazard class Packing group	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID) Not regulated Not regulated



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	substance/marine pollutant	No
14.7.	Special precautions for user	Read safety data sheet
14.8.	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	
	Transport in bulk according to Annex II of MARPOL and the IBC Code	Not applicable. 73/78
15.	Regulatory informa	tion
15.1.	Safety, health and er	vironmental regulations/legislation specific for the substance or mixture
	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
15.2.	Chemical safety assessment	No additional information available
16.	Other information	
	Key literature	This SDS is prepared based on the information received from the
	references and	the product raw material.
	sources for data	
16.1. Full Text of Hazard and Precautionary Statements		



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H302 Harmful if swallowed

- H315 Causes skin irritation
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation
- H361d Suspected of damaging the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure
- STOT RE 2: Specific target organ toxicity Repeated exposure, Category 2
- STOT SE 3 Specific target organ toxicity Single exposure, Category 3, Respiratory tract irritation
- Skin Irrit. 2 Skin corrosion/irritation, Category 2
- Repr. 2 Reproductive toxicity, Category 2
- Eye Irrit. 2 Serious eye damage/eye irritation, Category 2
- Eye Dam. 1 Serious eye damage/eye irritation, Category 1
- Acute Tox. 4 (Oral) Acute toxicity (oral), Category 4

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.