

OLAR ANTI-FREEZE G12+ READY TO USE

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name OLAR ANTI-FREEZE G12+ READY TO USE

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.

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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



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Signal word

Warning

Hazard statements

H302 Harmful if swallowed

H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>). Affected organs: kidney

Precautionary statements

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/attention

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

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

Supplemental Hazard information (EU): none.

2.3. Other Hazards

No additional information available

3. Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1,2-Ethandiol	(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 thoroughly 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 rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

SAFETY DATA SHEET

According to Regulation (EU) No. 2015/830

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

Effects Ethylene 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 (CO₂), water mist.

Unsuitable extinguishing media None known.

5.2. Special hazards arising from 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 precautions

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 sections

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 handling

Usage precautions Avoid spilling. Avoid contact with eyes. Keep away from heat, from sources of ignition.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and

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well-ventilated place.

7.3. Specific end use(s)

Specific end use(s) None

8. Exposure Controls/personal protection
8.1. Control parameters

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) (mg/m ³)	10 mg/m ³ particulate 52 mg/m ³ vapour
Ireland	OEL (8 hours ref) (ppm)	20 ppm vapour
Ireland	OEL (15 min ref) (mg/m ³)	104 mg/m ³ vapour
Ireland	OEL (15 min ref) (ppm)	40 ppm vapour
Ireland	Notes (IE)	Sk (Substances which have the capacity to penetrate

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		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/m ³)	10 mg/m ³ particulate 52 mg/m ³ 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

Protective equipment



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

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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 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 airborne contamination occurs.

8.3. Environmental exposure controls

Defined as a volatile organic chemical under directive 99/13. No special limits apply.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Clear
pH	7-9
Bulk density	1,080 g/cm ³ @20°C

9.2. Other information

Other information Not available.

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10. Stability and reactivity
10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical Stability

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 products

Hazardous decomposition products Fire creates: Carbon monoxide (CO). Carbon dioxide (CO₂).

11. Toxicological information
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

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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

Skin corrosion/irritation Not classified
 pH: 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

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

Aspiration hazard Not classified.

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.
 EC50 96h algae (1) 3536 mg/l green algae
 EC50 96h algae (2) 6500 - 13000 mg/l Pseudokirchneriella subcapitata
 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 degradability

1,2-Ethanediol (107-21-1) Readily biodegradable
Potassium 2-ethylhexanoate (3164-85-0) 99 % OECD 301E

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

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12.4. Mobility in soil

Mobility Prevent soil and water pollution.

12.5. 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 considerations

13.1. 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 packaging 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

14.1. General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID)

14.2. UN Number Not regulated

14.3. UN proper shipping name Not regulated

14.4. Transport hazard class Not regulated

14.5. Packing group Not regulated

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14.6. Environmental hazards

Environmentally

hazardous
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 73/78 and the IBC Code Not applicable.

15. Regulatory information

15.1. Safety, health and environmental 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

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16. Other information

Key literature references and sources for data This SDS is prepared based on the information received from the the product raw material.

16.1. Full Text of Hazard and Precautionary Statements

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.