

# SAFETY DATA SHEET

According to Regulation (EU) No. 2015/830

## OLAR ANTIFREEZE G11 READY TO USE

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

#### 1.1. Product identifier

Product name OLAR ANTIFREEZE G11 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.

Address Tepeören İTOSB Mah. 8. Cad. No:10 Tuzla/İstanbul

Tel +90 216 504 61 77

Fax +90 216 504 61 79

E-mail [www.olarlubricants.com](http://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

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



# SAFETY DATA SHEET

According to Regulation (EU) No. 2015/830

## OLAR ANTIFREEZE G11 READY TO USE

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 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

P102 Keep out of reach of children.

2.3. Other Hazards

No additional information available

### 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<br>(EC-No.) 203-473-3<br>(EC Index-No.) 603-027-00-1 | 60 - 99 | Acute Tox. 4 (Oral), H302 STOT RE 2, H373                       |

# SAFETY DATA SHEET

According to Regulation (EU) No. 2015/830

## OLAR ANTIFREEZE G11 READY TO USE

|   |   |         |   |
|---|---|---------|---|
|   | (REACH-no) 01-2119456816-28   |         |   |
| Sodium benzoate   | (CAS-No.) 532-32-1<br>(EC-No.) 208-534-8                                  | 1 - 5   | Eye Irrit. 2, H319  |
| Disodium Tetraborate Pentahydrate; Borax Pentahydrate substance listed as REACH Candidate (Disodium tetraborate, anhydrous) | (CAS-No.) 12179-04-3<br>(EC-No.) 215-540-4<br>(EC Index-No.) 005-011-02-9 | 0,1 - 1 | Repr. 1B, H360FD  |
| Disodium Tetraborate Pentahydrate; Borax Pentahydrate   | (CAS-No.) 12179-04-3<br>(EC-No.) 215-540-4<br>(EC Index-No.) 005-011-02-9 | -       | <b>Specific concentration limits</b><br>(C >= 6,5) Repr. 1B, H360FD |

### 4. First aid measures

#### 4.1. Description of first aid measures

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.  |
| <b>Ingestion</b>    | 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.                            |
| <b>Skin contact</b> | Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.                 |
| <b>Eye contact</b>  | 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. |

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

**OLAR ANTIFREEZE G11 READY TO USE**

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|                |   |
|----------------|---|
| <b>Effects</b> | 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.

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**5. Firefighting measures****5.1. Extinguishing media**

|                                     |  |
|-------------------------------------|--|
| <b>Suitable extinguishing media</b> | Choose extinguishing media suitable for surrounding fire. Alcohol -resistant foam, dry chemical powder, carbon dioxide (CO <sub>2</sub> ), water mist. |
|-------------------------------------|--|

|                                       |             |
|---------------------------------------|-------------|
| <b>Unsuitable extinguishing media</b> | None known. |
|---------------------------------------|-------------|

**5.2. Special hazards arising from the substance or mixture**

|                                      |   |
|--------------------------------------|---|
| <b>Hazardous combustion products</b> | Heat from a fire could result in drum bursting. |
|--------------------------------------|---|

**5.3. Advice for firefighters**

|   |  |
|---|--|
| <b>Protective actions during firefighting</b> | 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. |
|---|--|

|  |   |
|--|---|
| <b>Special protective equipment for firefighters</b> | Use protective equipment appropriate for surrounding materials. |
|--|---|

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**6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

|                             |  |
|-----------------------------|--|
| <b>Personal precautions</b> | For personal protection, see Section 8. In case of spills, beware of |
|-----------------------------|--|

# SAFETY DATA SHEET

According to Regulation (EU) No. 2015/830

## OLAR ANTIFREEZE G11 READY TO USE

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slippery floors and surfaces.

### 6.2. Environmental precautions

|                                  |   |
|----------------------------------|---|
| <b>Environmental precautions</b> | Do not discharge into drains or watercourses or onto the ground.<br>Avoid or minimise the creation of any environmental contamination.<br>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

|                                |   |
|--------------------------------|---|
| <b>Methods for cleaning up</b> | 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

|                                    |  |
|------------------------------------|--|
| <b>Reference to other sections</b> | 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

|                          |   |
|--------------------------|---|
| <b>Usage precautions</b> | Avoid spilling. Avoid contact with eyes. Keep away from heat, from sources of ignition. |
|--------------------------|---|

### 7.2. Conditions for safe storage, including any incompatibilities

|                            |   |
|----------------------------|---|
| <b>Storage precautions</b> | Store in tightly-closed, original container in a dry, cool and well-ventilated place. |
|----------------------------|---|

### 7.3. Specific end use(s)

|                            |      |
|----------------------------|------|
| <b>Specific end use(s)</b> | None |
|----------------------------|------|

# SAFETY DATA SHEET

According to Regulation (EU) No. 2015/830

## OLAR ANTIFREEZE G11 READY TO USE

### 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 <sup>3</sup> )             | 52 mg/m <sup>3</sup>   |
| 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<br>2000/39/EC   |
| Germany                   | TRGS 910 Acceptable<br>concentration notes |  |
| Ireland                   | Local name                                 | Ethane-1,2-diol [Ethylene<br>glycol]   |
| Ireland                   | OEL (8 hours ref)<br>(mg/m <sup>3</sup> )  | 10 mg/m <sup>3</sup> particulate<br>52 mg/m <sup>3</sup> vapour  |
| Ireland                   | OEL (8 hours ref)<br>(ppm)                 | 20 ppm vapour  |
| Ireland                   | OEL (15 min ref)<br>(mg/m <sup>3</sup> )   | 104 mg/m <sup>3</sup> vapour   |
| Ireland                   | OEL (15 min ref)<br>(ppm)                  | 40 ppm vapour  |
| Ireland                   | Notes (IE)                                 | Sk (Substances which have<br>the capacity to penetrate<br>intact skin when they come<br>in contact with it, and be<br>absorbed into the body),<br>IOELV (Indicative<br>Occupational Exposure Limit |

# SAFETY DATA SHEET

According to Regulation (EU) No. 2015/830

## OLAR ANTIFREEZE G11 READY TO USE

|   |   |   |
|---|---|---|
|   |   | Values)   |
| Ireland   | Regulatory reference                    | Chemical Agents Code of Practice 2020   |
| United Kingdom  | Local name                              | Ethane-1,2-diol   |
| United Kingdom  | WEL TWA (mg/m <sup>3</sup> )            | 10 mg/m <sup>3</sup> particulate<br>52 mg/m <sup>3</sup> vapour   |
| United Kingdom  | WEL TWA (ppm)                           | 20 ppm vapour   |
| United Kingdom  | WEL STEL (mg/m <sup>3</sup> )           | 104 mg/m <sup>3</sup> 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   |
| <b>Disodium Tetraborate Pentahydrate; Borax Pentahydrate (12179-04-3)</b> |   |   |
| EU  | IOELV TWA (mg/m <sup>3</sup> )          | 1 mg/m <sup>3</sup>   |
| Germany   | TRGS 910 Acceptable concentration notes |   |
| Ireland   | Local name                              | Borate compounds inorganic: Borates, tetra, sodium, pentahydrous [Disodium tetraborate, pentahydrate]   |
| Ireland   | OEL (8 hours ref) (mg/m <sup>3</sup> )  | 2 mg/m <sup>3</sup>   |
| Ireland   | Notes (IE)                              | Repr.1B (Substances which are presumed human reproductive toxicants)  |

# SAFETY DATA SHEET

According to Regulation (EU) No. 2015/830

## OLAR ANTIFREEZE G11 READY TO USE

|         |                      |                                       |
|---------|----------------------|---------------------------------------|
| Ireland | Regulatory reference | Chemical Agents Code of Practice 2020 |
|---------|----------------------|---------------------------------------|

### 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 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.



**OLAR ANTIFREEZE G11 READY TO USE****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 <sup>3</sup> @20°C |

**9.2. Other information**

|                   |                |
|-------------------|----------------|
| Other information | Not available. |
|-------------------|----------------|

**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 | Fire creates: Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). |
|-------------------------|--|

# SAFETY DATA SHEET

According to Regulation (EU) No. 2015/830

## OLAR ANTIFREEZE G11 READY TO USE

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products

### 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 |
| LD50 dermal rabbit         | 10600 mg/kg        |
| LC50 inhalation rat (mg/l) | > 2,5 mg/l/6Hrs    |

| Sodium benzoate (532-32-1) |   |
|----------------------------|---|
| LD50 oral rat              | 3450 mg/kg bodyweight 95% CL: 3150 - 3740 |
| LD50 dermal rat            | > 2000 mg/kg bodyweight                   |
| LC50 inhalation rat (mg/l) | > 12,2 mg/l air                           |

**Skin corrosion/irritation** Not classified

**Serious eye damage /irritation** Not classified

**Respiratory or skin sensitisation** Not classified

**Germ cell mutagenicity exposure** Not mutagenic

**Carcinogenicity** Not classified

# SAFETY DATA SHEET

According to Regulation (EU) No. 2015/830

## OLAR ANTIFREEZE G11 READY TO USE

|   |                       |
|---|-----------------------|
| <b>1,2-Ethanediol (107-21-1)</b>              |                       |
| 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

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

|  |                                      |
|--|--------------------------------------|
| <b>Sodium benzoate (532-32-1)</b>                |                                      |
| NOAEL (oral, rat, 90 days)                       | 1000 mg/kg bodyweight                |
| NOAEL (dermal, rat/rabbit, 90 days)              | > 2500 mg/kg bodyweight EPA OPP 82-2 |
| NOAEC (inhalation, rat, dust/mist/fume, 90 days) | <= 0,025 mg/l air OECD 412           |

**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.  
 NOEC (chronic); 15380 mg/l Fish Early Life Stage / Pimephales promelas / 7 days

# SAFETY DATA SHEET

According to Regulation (EU) No. 2015/830

## OLAR ANTIFREEZE G11 READY TO USE

|                                   |   |
|-----------------------------------|---|
| <b>Sodium benzoate (532-32-1)</b> |   |
| LC50 fish 1                       | 484 mg/l Pimephales promelas                |
| EC50 72h algae (1)                | > 30,5 mg/l Pseudokirchneriella subcapitata |
| NOEC chronic fish                 | 10 mg/l Danio rerio @144h                   |

**12.2. Persistence and degradability**      **1,2-Ethanediol (107-21-1)** Readily biodegradable

**12.3. Bioaccumulative potential**

**Bioaccumulative potential** No data available on bioaccumulation.

**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.

**OLAR ANTIFREEZE G11 READY TO USE**

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|               |                |
|---------------|----------------|
| 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   |
| 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
- Contains no REACH substances with Annex XVII restrictions  
Contains a substance on the REACH candidate list in concentration  $\geq 0.1\%$  or with a lower

# SAFETY DATA SHEET

According to Regulation (EU) No. 2015/830

## OLAR ANTIFREEZE G11 READY TO USE

specific limit: Disodium tetraborate, anhydrous (EC 215- 540-4, CAS 12179-04-3)

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 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

H319 Causes serious eye irritation.

H373: May cause damage to organs through prolonged or repeated exposure

H360FD: May damage fertility. May damage the unborn child.

STOT RE 2: Specific target organ toxicity — Repeated exposure, Category 2

Repr. 1B: Reproductive toxicity, Category 1B

Eye Irrit. 2 Serious eye damage/eye irritation, Category 2

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.