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## SAFETY DATA SHEET

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According to Regulation EC No 1907/2006 - REACH and Regulation EC No 1272/2008 - CLP

### REPSOL MOTO COOLANT & ANTIFREEZE

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

##### 1.1 Product identifier

<b>Commercial name</b>	REPSOL MOTO COOLANT & ANTIFREEZE
<b>Chemical name</b>	N/A
<b>Synonyms</b>	N/A
<b>CAS</b>	N/A
<b>EC (EINECS)</b>	N/A
<b>Index No ( annex VI</b>	
<b>Regulation EC No</b>	N/A
<b>1272/2008)</b>	
<b>Registration Number</b>	N/A
<b>Authoritation Number</b>	N/A
<b>Material Code</b>	RP714R

##### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Product maintenance for the car.

##### 1.3 Details of the supplier of the safety data sheet

<b>Company</b>	REPSOL LUBRICANTES Y ESPECIALIDADES, S.A.
<b>Address</b>	Méndez Álvaro, 44 28045 - MADRID, Spain
<b>Phone</b>	+34 917538000 /+34 917538100
<b>Fax</b>	+34 902303145
<b>e-mail address</b>	FDSRLESA@repsol.com

##### 1.4 Emergency telephone number




Carechem 24: +44 (0) 1235 239 670  
Carechem 24: +1 215 207 0061  
Carechem 24: 001866 928 0789

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**SECTION 2. Hazards identification**

<b>2.1 Classification of the substance or mixture</b>	<b>2.2 Label elements</b>	
<b>CLASSIFICATION (Dir.67/548/CEE o Dir.1999/45/CE)</b>	<b>LABELLING</b>	
Xn; R22	<b>Symbols</b> Xn	
	<b>Phrases R</b>	R22: Harmful if swallowed.
	<b>Phrases S</b>	S2: Keep out of the reach of children. S46: If swallowed, seek medical advice immediately and show this container or label.
<b>CLASSIFICATION Reg.(CE)1272/2008(CLP)</b>	<b>LABELLING</b>	
Acute toxicity: Acute Tox. 4 Specific target organ toxicity: STOT RE 2	<b>Pictograms</b> GHS07 GHS08	 
	<b>Signal word</b>	Warning
	<b>Hazard statements</b>	H302: Harmful if swallowed. H373: May cause damage to organs through prolonged or repeated exposure.
	<b>supplemental information</b>	N/A

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	<b>Precautionary statements</b>	P260: Do not breathe dust/fume/gas/mist/vapours/spray. P264: Wash thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P301: IF SWALLOWED: seek medical advice immediately and show this container or label. P312: Call a POISON CENTER or doctor/physician if you feel unwell. P314: Get medical advice/attention if you feel unwell. P330: Rinse mouth. P501: Dispose of the contents/receptacle into the container supplied for that purpose in accordance with current guidelines.
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**2.3 Other hazards**

Results of the assessment of PBT and vPvB in the product, in accordance with the criteria set out in Annex XIII of REACH, can be found in Section 12.5 of this MSDS.

Please refer to Sections 5, 6 and 7 of this MSDS for information on other dangers, different from classification dangers but which may contribute to the overall hazards of the product.

**SECTION 3. Composition/information on ingredients**

Antifreeze coolant fluid.

<b>Dangerous components (Dir. 67/548/CEE )</b>	<b>Concentration (%)</b>	<b>CLASSIFICATION</b>
Monoethylenglykol <b>CAS</b> : 107-21-1 <b>EC (EINECS)</b> : 203-473-3 <b>Registration Number</b> : 01-2119456816-28-XXXX	>=80 <=94,99	Xn; R22
<b>Dangerous components Reg. (CE) 1272/2008 (CLP)</b>	<b>Concentration (%)</b>	<b>Hazard statements</b>

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Monoethylglykol <b>CAS:</b> 107-21-1 <b>EC (EINECS):</b> 203-473-3 <b>Registration Number:</b> 01-2119456816-28-XXXX	>=80 <=94,99	H302, H373
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**SECTION 4. First aid measures****4.1. Description of first aid measures**

**Inhalation:** Move the person to fresh air.  
Seek medical care.

**Ingestion/Aspiration:** If the product is swallowed and the affected person is conscious, induce vomiting.  
Seek medical care.

**Contact skin:** In case of contact with the product, wash skin area with plenty of hot water and soap.  
Seek medical care.

**Contact eyes:** Hold eyelids open and flush with large amounts of water for 15 min.  
Seek medical care.

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

**Inhalation:** Exposures to product vapors may cause nose and throat irritation, and respiratory tract irritation.

**Ingestion/Aspiration:** Harmful if swallowed.  
Swallowing may cause nausea, vomiting, central nervous system depression, loss of consciousness and acidosis.  
Long-term effects may include liver and kidney damage.

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**Contact skin:** Contact with skin may cause irritation if prolonged or repeated.

**Contact eyes:** Accidental eye contact with concentrated ethylene glycol results in extreme swelling of the eye, cloudy vision and slow response to light.

### 4.3. Indication of any immediate medical attention and special treatment needed

Seek medical care.

## SECTION 5. Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media:** Water spray, CO<sub>2</sub>, foam and dry chemical powder.

**Unsuitable extinguishing media:** Water applied directly in jet stream may disperse the product.

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

**Combustion products:** CO<sub>2</sub>, H<sub>2</sub>O and CO (in the absence of oxygen).

**Special measures:** Move container from fire area if it can be done without risk. Cool flame-exposed containers with water. Water spray applied to surface leads to foam formation which helps to extinguish the fire. Consult and follow safety procedures.

**Special hazards:** The product should be pre-heated for ignition to occur. The product may release hazardous fumes in a fire.

### 5.3. Advice for firefighters:

Suit and gloves resistant to heat. Self-contained breathing apparatus in case of high concentrations of fumes or thick smoke.

## SECTION 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

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**Personal precautions:** Keep unnecessary people away.  
Avoid prolonged contact with liquid product.

**Personal protection:** Suitable protective clothing.  
Waterproof gloves and safety glasses.  
Self-contained breathing apparatus if necessary.

### 6.2. Environmental precautions

Isolate and remove discharged material.  
Keep material away from water sources.  
Do not allow material to reach drains and sewers.

### 6.3. Methods and material for containment and cleaning up

Small spills: Collect with sand or other non-combustible absorbent material and place into containers for later disposal.  
Large spills: Dike far ahead of liquid spillage and using vacuum equipment, pump into containers for later disposal.

### 6.4. Reference to other sections

Section 8 contains more detailed advice on personal protective equipment and section 13 on waste disposal.

## SECTION 7. Handling and storage

### 7.1. Precautions for safe handling

**General precautions:** Wear protective clothing to avoid prolonged contact with the product.  
Do not smoke, drink, or eat during handling.  
Good personal hygiene procedures must be observed.  
Do not handle damaged containers unless wearing appropriate protective equipment to avoid direct contact.

**Specific conditions:** Good local exhaust ventilation system.

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

**Temperature and decomposition products:** The product is stable under normal conditions.

**Dangerous reactions:** N/A

**Storage conditions:** Store at room temperature in cool and well-ventilated places.  
Properly sealed and labeled aluminum or steel containers.

**Incompatible materials:** Strong oxidizing agents, nitric acid, sulfuric acid, chlorosulphonic acid.

**7.3. Specific end use(s)**

See section 1 or exposure scenario

**SECTION 8. Exposure controls/personal protection****8.1 Control parameters**

Ethylene glycol (N° CAS: 107-21-1): INSHT (Spain):VLA-ED: 20 ppm (52 mg/m <sup>3</sup> ) / VLA-EC: 40 ppm (104 mg/m <sup>3</sup> ). ACGIH (USA): TLV/STEL: 100 mg/m <sup>3</sup> Lijst Grenswaarden / Valeurs Limites(Belgium): TWA: 20 ppm (52 mg/m <sup>3</sup> ) / STEL: 40 ppm (104 mg/m <sup>3</sup> ). Arbejdstilsynet (Denmark): TWA: 10 mg/m <sup>3</sup> / STEL: 20 mg/m <sup>3</sup> . TRGS900 AGW (Germany): TWA: 10 ppm (26 mg/m <sup>3</sup> ) / STEL: 20 ppm (52 mg/m <sup>3</sup> ). EüM-SzCsM (Hungary):TWA: 52 mg/m <sup>3</sup> / STEL: 104 mg/m <sup>3</sup> . NAOSH (Ireland): TWA: 10 mg/m <sup>3</sup> . LV Nat. Standardisation and Meteorological Centre (Latvia): TWA: 20 ppm (52 mg/m <sup>3</sup> ) / STEL: 40 ppm (104 mg/m <sup>3</sup> ). Rozporządzenie Ministra Pracy i Polityki Społecznej (Poland): TWA: 15 mg/m <sup>3</sup> / STEL: 50 mg/m <sup>3</sup> . AFS 2005:17 (Sweden): NGV: 10 ppm (25 mg/m <sup>3</sup> ) / KTV: 20 ppm (50 mg/m <sup>3</sup> ). EH40/2005 WELs (UK): OEL-TWA: 10 mg/m <sup>3</sup> .
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**DNEL**            N/A

**PNEC**            N/A

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### 8.2 Exposure controls

Avoid prolonged contact with liquid product.

#### Individual protection measures, such as personal protective equipment

**Respiratory protection:** In the presence of high vapor concentrations, use respiratory protective mask.

**Skin protection:** Gloves, appropriate footwear and clothing.

**Eye/face protection:** Safety goggles or face-shields to prevent splashes.

**Other protective equipment:** Showers and eye-washers in the work area.

**Specific hygiene measures:** Hot showers should be used. Use soap and no other solvents.

**Medical Conditions Aggravated by Exposure:** N/A

#### Environmental exposure controls:

Product should not reach the environment through wastewater or sewage. Measures to take in case of accidental release can be found in Section 6 of this MSDS.

## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance: Transparent liquid.

Odour: N/A

Odour threshold: N/A

Colour: Colorless.

pH: 7,5-9,0

Melting point/freezing point: -18 °C at 33% volume in water

Initial boiling point and boiling range: N/A

Flash point: N/A

Evaporation rate: N/A

Flammability (solid, gas): N/A

Upper/lower flammability or explosive limits: N/A

Vapour pressure: N/A



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Vapour density: N/A  
Density: 1,13 g/cm<sup>3</sup> Typical (20 °C)  
Solubility(ies): N/A  
Partition coefficient: n-octanol/water: N/A  
Auto-ignition temperature: N/A  
Decomposition temperature: N/A  
Viscosity: N/A  
Explosive properties: N/A  
Oxidising properties: N/A

### 9.2 Other information

N/A

## SECTION 10. Stability and reactivity

**10.1. Reactivity:** N/A

**10.2. Chemical stability:** Stable product at room temperature.

**10.3. Possibility of hazardous reactions:** Strong oxidizing agents, nitric acid, sulfuric acid, chlorosulphonic acid.

**10.4. Conditions to avoid:** High temperatures, moisture.

**10.5. Incompatible materials:** N/A

**10.6. Hazardous decomposition products:** Combustion may generate toxic carbon monoxide fumes.

## SECTION 11. Toxicological information

### 11.1. Information on toxicological effects

The provided toxicological information results from the application of Annexes VII to XI of Regulation 1907/2006 (REACH).

**Acute toxicity:** N/A

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**Skin corrosion/irritation:** N/A

**Serious eye damage/irritation:** N/A

**Respiratory or skin sensitisation:** N/A

**Germ cell mutagenicity:** N/A

**Carcinogenicity:** N/A

Product rating corresponds to the comparison of the results from the toxicological studies with the criteria set out in Regulation (EC) No 1272/2008 for CMR, categories 1A and 1B.

**Reproductive toxicity:** Experimental studies in rats and mice suggest that ethylene glycol may induce birth defects when administered orally.

**STOT-single exposure:** N/A

**STOT-repeated exposure:** N/A

**Aspiration hazard:** N/A

### SECTION 12. Ecological information

- 12.1. Toxicity:** The product is non-hazardous to aquatic species.
- 12.2. Persistence and degradability:** It is expected that the product is rapidly biodegraded.
- 12.3. Bioaccumulative potential:** Estimated bioconcentration factor is <1, therefore it does not accumulate in living organisms. The bioconcentration and adsorption in sediments are not significant.
- 12.4. Mobility in soil:** Estimated bioconcentration factor is <1, therefore it does not accumulate in living organisms. The product is water-soluble and due its octanol/water partition coefficient, is expected to have high mobility in soil. The bioconcentration and adsorption in sediments are not significant.
- 12.5. Results of PBT and vPvB assessment:** This mixture contains no substance considered to be PBT or vPvB.

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**12.6. Other adverse effects:** N/A

### **SECTION 13. Disposal considerations**

#### **13.1. Waste treatment methods**

**Disposal:** Recycle material when possible. Incineration after addition of suitable fuel.

**Handling:** Containers properly labeled and closed.

**Provisions:** Establishments and companies which recover, dispose, store, transport or handle waste should comply with Dir. 2008/98/EC on waste, or other local, national or community provisions.

### **SECTION 14. Transport information**

**14.1. UN number:** N/A

**14.2. UN proper shipping name:** N/A

**14.3. Transport hazard class(es):** N/A

**14.4. Packing group**

**ADR/RID:** N/A

**IATA-DGR:** N/A

**IMDG:** N/A

**14.5. Environmental hazards**

**ADR/RID:** N/A

**IATA-DGR:** N/A

**IMDG:** N/A

**14.6. Transport in bulk in accordance with appendix II of the Marpol agreement 73/78 and**

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**the IBC code**

No category assigned for the IBC code.

**14.7. Special precautions for user**

Transport in properly sealed and labeled containers.

### SECTION 15. Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

COMMISSION REGULATION (EU) No 453/2010 : REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS

Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Regulation (EC) No 1272/2008 of the European Parliament and the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures (CLP).

Regulation (EC) No 1907/2006 concerning Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

European Agreement concerning the international carriage of dangerous goods by road (ADR).

Regulation on the international transport of dangerous goods on the railway. (RID)

International maritime code of dangerous goods. (IMDG)

International Air Transport Association (IATA) regulation pertaining to air shipment.

International Bulk Chemical Code (IBC Code), MARPOL 73/78.

**Commission Regulation Other hazards**

Ethylene glycol is listed in TSCA Chemical Inventory (EPA).

**15.2. Chemical safety assessment**

A chemical safety assessment has not been carried out.

### SECTION 16. Other information

**Glossary**

CAS: Chemical Abstract Service

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists.

TLV: Threshold Limit Value

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TWA: Time Weighted Average  
STEL: Short-term Exposure Level  
REL: Recommendable Exposure Limit  
PEL: Permissible Exposure Limit  
INSHT: Instituto Nacional de Seguridad e Higiene en el Trabajo.  
VLA-ED: Environmental limit value - daily exposure  
VLA-EC: Limit environmental value - short exposure  
DNEL/DMEL: Derived no-effect level / Derivation of minimal effects levels  
PNEC: Predicted No Effect Concentration  
LD50: Lethal Dose Medium  
LC50: Lethal Concentration Medium  
EC50: Effective Concentration Medium  
IC50: Inhibitory Concentration Medium  
BOD: Biological Oxygen Demand.  
NOAEL: No observable adverse effect level  
NOEL: No observed effect level  
NOAEC: No observed adverse effect concentration  
NOEC: No observed effect concentration  
N/A: Not applicable  
| : Changes from the last revision

**Data Bases consulted**

EINECS: European Inventory of Existing Commercial Substances.  
TSCA: Toxic Substances Control Act, US Environmental Protection Agency.  
HSDB: US National Library of Medicine.  
RTECS: US Dept. of Health & Human Services.

**R phrases/Hazard Class-and-Category shown in the document**

H302: Harmful if swallowed.  
H373: May cause damage to organs through prolonged or repeated exposure.

Purchasing companies have an obligation to ensure that their employees are properly trained on the safe handling and use of the product in accordance with the guidelines contained in this MSDS.

Furthermore, companies purchasing this product are required to inform their employees, and individuals who could manipulate or use it within their facilities, about all indications included in the MSDS, in particular those relating to the product's risks to the health and safety of people and to the environment.

The information given in this document has been compiled based on the best existing information sources, latest available knowledge and according to the current requirements on classification, packaging and labelling of hazardous substances. It does not imply the information is exhaustive or



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accurate in all cases. It is the user's responsibility to determine the validity of the information contained in this Material Safety Data Sheet to apply depending on the case.