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**INFORMATION NOTE ABOUT PRODUCT SAFETY**

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**REPSOL CARTAGO EP MULTIGRADO 85W140****SECTION 1. Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

<b>Commercial name</b>	REPSOL CARTAGO EP MULTIGRADO 85W140
<b>Chemical name</b>	Lubricating oil.
<b>Synonyms</b>	N/A
<b>CAS</b>	N/A
<b>EC (EINECS)</b>	N/A
<b>Index No ( annex VI Regulation EC No 1272/2008)</b>	N/A
<b>Registration Number</b>	N/A
<b>Authoritation Number</b>	N/A
<b>Material Code</b>	RP024S

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

Automotive applications.

**1.3 Details of the supplier of the information note about product safety**

<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

**SECTION 2. Hazards identification**

<b>2.1 Classification of the substance or mixture</b>	<b>2.2 Label elements</b>	
<b>CLASSIFICATION Reg.(CE)1272/2008(CLP)</b>	<b>LABELLING</b>	
N/A	<b>Pictograms</b>	
	N/A	
	<b>Signal word</b>	N/A
	<b>Hazard statements</b>	N/A

## INFORMATION NOTE ABOUT PRODUCT SAFETY

	<b>supplemental information</b>	EUH 208: Contains CE 931-384-6 ; CE 939-460-0. May produce an allergic reaction.
	<b>Precautionary statements</b>	N/A

### 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 information note about product safety.

Please refer to Sections 5, 6 and 7 of this information note about product safety 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

Transmission oil.

The classification and labelling of the product have been performed in accordance with the information contained in the MSDS of supplier and supplementary information from tests performed by the same supplier provided in a report dated 02/02/2015, reference number EFI-326/2015/issue 02.

<b>Dangerous components Reg. (CE) 1272/2008 (CLP)</b>	<b>Concentration (%)</b>	<b>Hazard statements</b>
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl <b>EC (EINECS):</b> 931-384-6 <b>Registration Number:</b> 01-2119493620-38-XXXX	1,9	H302, H317, H318, H411
Alkyl amine <b>CAS:</b> 112-90-3 <b>EC (EINECS):</b> 204-015-5	0,6	H302, H304, H314, H318, H335, H373, H400, H410
Reaction product of 1,3,4-dithione-2,5-dithione, formaldehyde and phenol, heptilane derivatives. <b>EC (EINECS):</b> 939-460-0 <b>Registration Number:</b> 01-2119971727-23-XXXX	0,3	H226, H315, H317, H318, H412

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

**Inhalation:** In case of inhalation, move the affected person to an area of fresh air.  
Administer oxygen if necessary.  
Seek medical care.

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## INFORMATION NOTE ABOUT PRODUCT SAFETY

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**Ingestion/Aspiration:** Do not induce vomiting.  
If conscious, have the victim drink water.  
Seek medical care.

**Contact skin:** Wash with soap and plenty of water.  
Call for medical attention.

**Contact eyes:** Wash with soap and plenty of water.  
In case of contact with eyes wash, with plenty of water for at least 15 minutes.  
Call for medical attention.

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

**Inhalation:** Repeated and prolonged exposures to high concentrations of vapor result in central nervous system damage and may cause cardiac irregularities.  
In low areas or confined spaces, vapors may cause asphyxia.

**Ingestion/Aspiration:** Intestinal absorption is very limited.  
Accidental intake of large amounts causes irritation of the gastrointestinal tract, nausea, vomiting and diarrhea.

**Contact skin:** Skin toxicity is very low in short contacts.  
Prolonged contact with eyes may produce stinging, irritation, and dermatitis due removal of natural fats from skin.  
No skin sensitization reactions show in animal testing and there have been no human cases.  
Repeated exposure to vapors or liquid may cause irritation.

**Contact eyes:** Skin toxicity is very low in short contacts.  
No skin sensitization reactions show in animal testing and there have been no human cases.  
Repeated exposure to vapors or liquid may cause irritation.

### 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.

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## INFORMATION NOTE ABOUT PRODUCT SAFETY

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

**Combustion products:** CO<sub>2</sub>, H<sub>2</sub>O, CO (in the absence of air), SO<sub>2</sub>, NO<sub>x</sub>.

**Special measures:** Not required.

**Special hazards:** N/A

### 5.3. Advice for firefighters:

Clothing and gloves resistant to fire and SCBA.

## SECTION 6. Accidental release measures

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

**Personal precautions:** Avoid prolonged contact with product or contaminated clothes, and avoid inhalation of vapors.  
Contaminated clothing should be discarded.

**Personal protection:** During the cleaning operation, wear suitable protective clothing, gloves, and safety goggles.

### 6.2. Environmental precautions

Serious physical contamination hazard if released (coasts, soils, etc.) Due to its floating capacity and oily consistency, which may cause damage to fauna and flora upon contact. Prevent flow into drainages, waterways or water sources.

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

Treat as an accidental oil spill.  
Avoid dispersion using mechanical barriers and eliminate using physical or chemical means.

### 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:** Avoid prolonged contact with the product and prolonged inhalation of vapors or mists from the product.  
During transfer avoid contact with air, use properly grounded pumps and connections to prevent generation of electrostatic charges.  
In case of air pollution in the place of production or work, air must be filtered before discharge.

**Specific conditions:** Safety goggles or face-shield and gloves are recommended to protect

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## INFORMATION NOTE ABOUT PRODUCT SAFETY

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from splashes.

Do not cut nor weld in areas close to filled tanks.

Follow similar precautions with empty containers.

Before making any repairs to a tank, make sure it is properly drained and washed and check inside for explosive atmosphere.

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

**Temperature and decomposition products:** The incomplete combustion of the product can produce CO and other asphyxiating substances.

**Dangerous reactions:** N/A

**Storage conditions:** Drums properly sealed in cool and ventilated places.

Do not smoke, weld or do any work which can produce flames or sparks in storage area.

**Incompatible materials:** Strong oxidizing substances.

### 7.3. Specific end use(s)

See section 1 or exposure scenario

## SECTION 8. Exposure controls/personal protection

### 8.1 Control parameters

Mineral oil mists INSHT (Spain):VLA-ED: 5 mg/m <sup>3</sup> / VLA-EC: 10 mg/m <sup>3</sup> ACGIH(USA): TLV-TWA:5 mg/m <sup>3</sup> .
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**DNEL** N/A

**PNEC** N/A

### 8.2 Exposure controls

Avoid contact with the product and inhalation of product mists and vapors. Local exhaust ventilation (LEV) close to generation point.

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

**Respiratory protection:** Low vapor pressure; the product is slightly volatile at room temperature and does not have special risks. In presence of heated oils, wear protective masks to avoid inhalation of vapors or mists.

**Skin protection:** Gloves (polyethylene, polyvinyl chloride and neoprene; do not use natural rubber or butyl).

**Eye/face protection:** Goggles to protect from splashes.

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## INFORMATION NOTE ABOUT PRODUCT SAFETY

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

**Specific hygiene measures:** Contaminated footwear should be discarded. Contaminated clothing should not be taken home for laundering with other clothing. Regular changing of underwear is also important to avoid possible penetration from outer clothing. Washing/Showering facilities with a non-solvent based skin cleanser, hot water and soap must be provided and used. Use skin reconditioning cream after work.

**Medical Conditions Aggravated by Exposure:** Respiratory tract deficiencies and dermatological problems.

**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 information note about product safety.

### SECTION 9. Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance: Transparent.

Odour: Lubricant.

Odour threshold : N/A

Colour: 6 max. (ASTM D-1500)

pH: N/A

Melting point/freezing point : -15°C max. (ASTM D-97)

Initial boiling point and boiling range : N/A

Flash point : 190 °C min. (ASTM D-92)

Evaporation rate : N/A

Flammability (solid, gas) : N/A

Upper/lower flammability or explosive limits : N/A

Vapour pressure : N/A

Vapour density : N/A

Density : 0.914 g/cm<sup>3</sup> typical at 15°C (ASTM D-4052)

Solubility(ies) : N/A

Partition coefficient: n-octanol/water : N/A

Auto-ignition temperature : N/A

Decomposition temperature : N/A

Viscosity : 28,3 cSt Typical (100 °C) 400 cSt Typical (40 °C) (ASTM D-445) 150.000 cP (-12°C) (ASTM D-2983)

Explosive properties : N/A

Oxidising properties : N/A

#### 9.2 Other information

N/A

### SECTION 10. Stability and reactivity

#### 10.1. Reactivity: N/A

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## INFORMATION NOTE ABOUT PRODUCT SAFETY

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- 10.2. Chemical stability:** Stable product at room temperature.
- 10.3. Possibility of hazardous reactions:** The strong oxidants react in contact with oils and organic matter in general.
- 10.4. Conditions to avoid:** Exposure to open flames.
- 10.5. Incompatible materials:** N/A
- 10.6. Hazardous decomposition products:** The incomplete combustion of the product can produce CO and other asphyxiating substances.

### 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

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

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

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

**Germ cell mutagenicity:** N/A

**Carcinogenicity:** Lubricant base oil. IARC classification: Group 3 (not classifiable as to carcinogenicity in humans)

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:** No evidence exists.

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

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

**Aspiration hazard:** N/A

### SECTION 12. Ecological information

**12.1. Toxicity:** N/A

**12.2. Persistence and degradability:**

CE: 931-384-6. Inherent / Sediment. Duration 28 days. Degradation: 3.6 %.

CE: 204-015-5. Sealed flask: Duration 28 days. Degradation: 44 %; Modified Sturm Test:

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## INFORMATION NOTE ABOUT PRODUCT SAFETY

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Duration 28 days. Degradation: 66 %

CE: 939-460-0. Modified Sturm Test: Duration 28 days. Degradation: 17.4 %

### 12.3. Bioaccumulative potential:

CE: 204-015-5. Bio-concentration: Duration 0.1 days. Log KOW or Log FBC: 2.7.

CE: 939-460-0. Octanol-water coefficient: Duration 0.1 days. Log KOW or Log FBC: 9.4.

### 12.4. Mobility in soil: N/A

### 12.5. Results of PBT and vPvB assessment: This mixture contains no substance considered to be PBT or vPvB.

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

## SECTION 13. Disposal considerations

### 13.1. Waste treatment methods

**Disposal:** Recycle and recover base oils when possible. In landfills and incineration managed by authorized agents. Avoid releasing waste oils to sewers because they can destroy water treatment plant microorganisms.

**Handling:** Sealed containers. Avoid direct contact with waste.

**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. Danger identification number: 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



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## INFORMATION NOTE ABOUT PRODUCT SAFETY

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**IATA-DGR:** N/A

**IMDG:** N/A

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

N/A

**14.7. Special precautions for user**

N/A

### 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**

N/A

**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

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

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## INFORMATION NOTE ABOUT PRODUCT SAFETY

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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.

### Hazard Class-and-Category shown in the document

H226: Flammable liquid and vapour.  
H302: Harmful if swallowed.  
H304: May be fatal if swallowed and enters airways.  
H314: Causes severe skin burns and eye damage.  
H317: May cause an allergic skin reaction.  
H315: Causes skin irritation.  
H318: Causes serious eye damage.  
H335: May cause respiratory irritation.  
H373: May cause damage to organs through prolonged or repeated exposure.  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.  
H411: Toxic to aquatic life with long lasting effects.  
H412: Harmful to aquatic life with long lasting effects.

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 information note about product safety.

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 INFORMATION NOTE ABOUT PRODUCT SAFETY, in particular those relating to the product's risks to the health and safety of people and to the environment.

Safety Information Sheet/Fact Sheet prepared in compliance with Article 32 of Regulation (EC) 1907/2006 (REACH), in order to communicate information down the supply chain for substances on their own or in mixtures for which a safety data sheet is not required in the SDS format. Therefore, this document does not constitute a Material Safety Data Sheet (MSDS/SDS) according to Article 31 of REACH, given that for the purposes of REACH, it is not compulsory to provide a MSDS/SDS for the substance or mixture covered under this Safety Information Sheet/Fact Sheet.

The information contained in this Safety Information/Fact Sheet has been prepared by Repsol in accordance with the best available information based on technical data believed to be reliable at the

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## INFORMATION NOTE ABOUT PRODUCT SAFETY

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