



SAFETY DATA SHEET

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

REPSOL GRASA SPRAY

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

1.1 Product identifier

Commercial name	REPSOL GRASA SPRAY
Chemical name	N/A
Synonyms	N/A
CAS	N/A
EC (EINECS)	N/A
Index No (annex VI	
Regulation EC No	N/A
1272/2008)	
Registration Number	N/A
Authoritation Number	N/A
Material Code	RP710B

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

Lubricating grease.

1.3 Details of the supplier of the safety data sheet



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

2.1 Classification of the substance or mixture	2.2 Label elements	
CLASSIFICATION (Dir.67/548/CEE o Dir.1999/45/CE)	LABELLING	
F+; R12	Symbols F+	
	Phrases R	R12: Extremely flammable.
	Phrases S	S2: Keep out of the reach of children. S16: Keep away from sources of ignition - No smoking. S23: Do not breathe gas/fumes/vapour/spray. S51: Use only in well-ventilated areas. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.
CLASSIFICATION Reg.(CE)1272/2008(CLP)	LABELLING	
Aerosol: Aerosol 1	Pictograms GHS02	
	Signal word	Hazard
	Hazard statements	H229: Pressurised container: May burst if heated. H222: Extremely flammable aerosol.

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	supplemental information	N/A
	Precautionary statements	P102: Keep out of reach of children. P103: Read label before use. P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211: Do not spray on an open flame or other ignition source. P251: Do not pierce or burn, even after use. P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

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

Prepared liquid aerosol spray.

Dangerous components (Dir. 67/548/CEE)	Concentration (%)	CLASSIFICATION
Hydrocarbons, C3-4-rich, petroleum distillate; petroleum gases. (1,3-butadiene <0.1%) CAS : 68512-91-4 EC (EINECS) : 270-990-9	60	F+; R12
Dano CAS : 124-18-5 EC (EINECS) : 204-686-4	20	R10 Xn; R65 R66

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Tetrachloroethylene CAS : 127-18-4 EC (EINECS) : 204-825-9	<30	Xn;R40 N; R51/53
Dangerous components Reg. (CE) 1272/2008 (CLP)	Concentration (%)	Hazard statements
Hydrocarbons, C3-4-rich, petroleum distillate; petroleum gases. (1,3-butadiene <0.1%) CAS : 68512-91-4 EC (EINECS) : 270-990-9	60	H220
Dano CAS : 124-18-5 EC (EINECS) : 204-686-4	20	H226, H304
Tetrachloroethylene CAS : 127-18-4 EC (EINECS) : 204-825-9	<=30	H351, H411

SECTION 4. First aid measures
4.1. Description of first aid measures

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

Ingestion/Aspiration: Do not induce vomiting.
Wash out mouth with water.
Seek medical care.

Contact skin: Remove contaminated clothing.
Wash the affected area with plenty of water.

Contact eyes: Wash eyes with plenty of water for at least 15 minutes.
If irritation persists, seek medical care.

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

Inhalation: Inhalation of high concentrations may cause harmful central nervous system effects, including excitation, euphoria, headache, dizziness, drowsiness, blurred vision, fatigue, tremors, convulsions, loss of consciousness, and respiratory arrest. Propellant has narcotic properties and may become an asphyxiant by diluting or decreasing the available oxygen in potential breathing zones.

Ingestion/Aspiration: Ingestion may cause nausea or vomiting.

Contact skin: Dry skin, irritation in case of repeated or prolonged exposure.

Contact eyes: Contact with eyes may produce irritation, causing pain, tearing and hazy vision.

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, CO₂, foam and dry chemical powder.

Unsuitable extinguishing media: N/A

5.2. Special hazards arising from the substance or mixture

Combustion products: CO.

Special measures: Cool containers and surroundings with water spray.

Special hazards: Aerosol may explode due to internal pressure reaches when exposed to temperatures above 50 ° C. Containers liable to burst with force can be projected during a fire.

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5.3. Advice for firefighters:

Do not inhale explosion gases.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Ventilate contaminated area.
Eliminate all possible sources of ignition.
Avoid contact with skin or eyes and inhalation of the vapors.

Personal protection: Wear air-supplied breathing apparatus in presence of high gas concentrations.
Waterproof gloves and other protective resistant clothing if contact with product is possible.

6.2. Environmental precautions

Advise Authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

6.3. Methods and material for containment and cleaning up

Prevent spillage reaches the sewers, waterways or soil.
Consult with authorized agencies.

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: Eliminate all possible sources of ignition.
Protect from sunlight and do not expose to temperatures exceeding 50 ° C.
Use only in well ventilated areas.

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Specific conditions: Good local exhaust ventilation in confined areas, either fixed and/or forced (according to legislation in force).

Working spark resistant equipment and tools.

In filling and handling of bottles, you should use gloves, antistatic suit and shoes, in these operations, the use of goggles or face shields to prevent possible projections is advisable.

Qualified personnel and special existing safety manuals and codes should be used during bulk loading, cleaning and maintaining tanks or containers (making sure containers are empty and free of vapors before performing any inspection, which will be performed by qualified personnel).

7.2. Conditions for safe storage, including any incompatibilities

Temperature and decomposition products: Do not store at high temperatures (generally at temperatures above 50°C).

Dangerous reactions: Extremely flammable product. The liquid has a marked tendency to build up static charge when transferred by pipelines.

Storage conditions: Storage at room temperature and protect it from sunlight in cool and well ventilated places.

Eliminate all possible sources of ignition.

Do not allow temperature to exceed 50°C.

Incompatible materials: N/A

7.3. Specific end use(s)

See section 1 or exposure scenario

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Butane: VLA-ED (INSHT); TLV/TWA (ACGIH): 1000 ppm Propane: VLA-ED (INSHT); TLV/TWA (ACGIH): 1000 ppm. Dano: EU OEL(8h): 1.200 mg/m ³

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DNEL N/A

PNEC N/A

8.2 Exposure controls

Avoid product contact and gas inhalation. Contaminated clothing must be quickly wet to avoid skin irritation or risk of inflammation, and should be removed unless they are adhered to the skin.

Individual protection measures, such as personal protective equipment

Respiratory protection: Respiratory protective mask if there is possibility of gas inhalation.

Skin protection: Gloves and antistatic suit and footwear.

Eye/face protection: Safety goggles or face-shield.

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

Specific hygiene measures: Do not eat, drink or smoke in areas where the product is handled.

Medical Conditions Aggravated by Exposure: Preexisting skin or eye disorders may be aggravated by exposure to this product.

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.

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: Aerosol

Odour: Characteristic.

Odour threshold: N/A

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Colour: N/A
pH: N/A
Melting point/freezing point: N/A
Initial boiling point and boiling range: N/A
Flash point: N/A
Evaporation rate: N/A
Flammability (solid, gas): Flammable.
Upper/lower flammability or explosive limits: N/A
Vapour pressure: N/A
Vapour density: N/A
Density: 0,82 g/ml
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 under normal conditions of handling and storage.

10.3. Possibility of hazardous reactions: N/A

10.4. Conditions to avoid: Exposure to high temperatures, sparks, static electricity or flames.

10.5. Incompatible materials: Oxidizing substances.

10.6. Hazardous decomposition products: CO (in case of incomplete combustion), CO₂, H₂O.

SECTION 11. Toxicological information

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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:

CAS: 124-18-5. Rat oral LD50 > 5,000 mg/kg; Rat inhalation LC50 (2h):72 ,300 mg/m³ (vapor), Rat inhalation LC50 (8h):1,369 ppm (gas); Rat dermal LD50 > 2.000 mg/kg.

CAS: 68512-91-4. Rat inhalation LC50 > 20 mg/l.

Skin corrosion/irritation: N/A

Serious eye damage/irritation: N/A

Respiratory or skin sensitisation: N/A

Germ cell mutagenicity: N/A

Carcinogenicity: No evidence.

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 of reproductive toxicity in mammals.

STOT-single exposure: N/A

STOT-repeated exposure: N/A

Aspiration hazard: N/A

SECTION 12. Ecological information

12.1. Toxicity:

CAS 204-626-4. LC50 (96 h) (Fish) : 10-30 mg/l.

12.2. Persistence and degradability:

CAS: 68512-91-4. Biodegradable.

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CAS: 124-18-5. Readily biodegradable.

- 12.3. Bioaccumulative potential:** CAS: 124-18-5. Presents high potential for bioaccumulation.
- 12.4. Mobility in soil:** An estimated BCF (bioconcentration factor) of 74, based on a log K_{ow} of 2.76, suggesting that the product will not bioconcentrate in aquatic organisms.
- 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: When contents are depleted continue to depress button until all gas is expelled to atmosphere. According to existing provisions relating to waste management or other relevant municipal, provincial and / or national regulations.

Handling: Do not puncture or incinerate containers.

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:** UN 1950
- 14.2. UN proper shipping name:** AEROSOLS, flammable
- 14.3. Transport hazard class(es):** N/A
- 14.4. Packing group**

ADR/RID: Class 2. Classification Code: 5F

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IATA-DGR: Class 2

IMDG: Class 2

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 the IBC code

No category assigned for the IBC code.

14.7. Special precautions for user

Flammable aerosol. For containers whose maximum content is 1 l, exemptions apply to the transport of dangerous goods packed in limited quantities (ADR2001, Chapter 3.4). Sealed containers and protected against accidental opening.

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).

Dir.67/548/EEC on classification, packaging and labeling of dangerous substances (including amendments and adaptations in force).

Dir.1999/45/EEC on classification, packaging and labeling of dangerous substances (including amendments and adaptations in force).

Dir.91/689/EEC on hazardous waste/Dir.2008/98/CE waste management.

Royal Decree 363/95: Regulation about notification of new substances and classification, packaging and labelling of dangerous substances.

Royal Decree 255/2003: Regulation about classification, packaging and labelling of dangerous preparations.

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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

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

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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

R10: Flammable.
R40: Limited evidence of a carcinogenic effect
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65: Harmful: may cause lung damage if swallowed.
R66: Repeated exposure may cause skin dryness or cracking.
H220: Extremely flammable gas.
H226: Flammable liquid and vapour.
H304: May be fatal if swallowed and enters airways.
H351: Suspected of causing cancer.
H411: Toxic 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 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 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.