

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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

1.1 Product identifier

Product name: COFRAN REFRIGEL G12 ++

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

Identified uses: Antifreeze/coolant

Uses advised against: No uses advised against identified.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier **FUCHS LUBRIFIANT FRANCE**

> 1, rue Lavoisier 92000 Nanterre

France

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Telephone: +33 (0) 1 41 37 42 00 Fax: +33 (0) 1 41 37 42 99 E-mail: info.fds@fuchs.com

1.4 Emergency telephone number: +33 (0)1 45 42 59 59 (ORFILA)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified and labelled as hazardous according to regulation (EU) 1272/2008 (CLP).

Classification according to Regulation (EC) No 1272/2008 as amended.

Health Hazards

Specific Target Organ Toxicity -H373: May cause damage to organs through Category 2 prolonged or repeated exposure.

Repeated Exposure

Hazard summary

Physical Hazards: No data available.

2.2 Label Elements

Contains: Ethanediol

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Signal Words: Warning

Hazard Statement(s): H373: May cause damage to organs through prolonged or repeated

exposure.

Precautionary Statements

General information: P102: Keep out of reach of children.

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

Response: P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce

vomiting.

P314: Get medical advice/attention if you feel unwell.

Disposal: P501: Dispose of contents/container to an appropriate treatment and

disposal facility in accordance with applicable laws and regulations,

and product characteristics at time of disposal.

2.3 Other hazards: By handling of mineral oil products and chemical products no particular

hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the envi-

ronment without control.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information: Mixture of the substances listed below with harmless additions.

Chemical name	Identifier		REACH Registration No.	Notes
Ethanediol	EINECS: 203-473-3	50,00 - <100,00%	01-2119456816-28	

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. PBT: persistent, bioaccumulative and toxic substance.

Classification

Chemical name	Identifier	Classification
Ethanediol	EINECS: 203-473-3	CLP: Acute Tox. 4;H302, STOT RE 2;H373

CLP: Regulation No. 1272/2008.

For the wording of the listed hazard statements refer to section 16.

SECTION 4: First aid measures

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vPvB: very persistent and very bioaccumulative substance.



General: Change clothes and shoes contaminated or soaked by the product. Never

put rags contaminated by the product into clothing pockets.

4.1 Description of first aid measures

Inhalation: Supply fresh air; consult doctor in case of symptoms.

Eye contact: Promptly wash eyes with plenty of water while lifting the eye lids.

Skin Contact: Wash with soap and water.

Ingestion: Rinse mouth. Call a POISON CENTRE/doctor if you feel unwell.

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

No data available.

4.3 Indication of any immediate medical attention and special treatment needed Get medical attention if symptoms occur.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing me-

dia:

CO2, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant add-

ed

Unsuitable extinguishing

media:

Water with a full water jet.

5.2 Special hazards arising from the substance or mix-

ture:

During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

Special fire fighting proce-

dures:

Move container from fire area if it can be done without risk.

Special protective equipment for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be

worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

In case of spills, beware of slippery floors and surfaces.

6.2 Environmental Precautions: Avoid release to the environment. Do not contaminate water sources or

sewer. Prevent further leakage or spillage if safe to do so. Prevent from

spreading (e.g. by binding or oil barriers).

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6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust). Dispose of the material collected according to regulations. Stop the flow of material, if this is without risk.

6.4 Reference to other sections:

See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on disposal.

Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling:

Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Observe good industrial hygiene practices. Provide adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities:

Local regulations concerning handling and storage of waterpolluting products have to be followed. Prevent formation of aerosols.

7.3 Specific end use(s): Not applicable

Storage Class: 10, Combustible liquids

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

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Chemical name	Туре	Exposure Limit Values		Source	
Ethanediol - Vapor.	TWA	20 ppm	52 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)	
Ethanediol - Vapor.	STEL	40 ppm	104 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)	
Ethanediol - Particulate.	TWA		10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)	

8.2 Exposure controls

Appropriate engineering controls:

Provide adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Adequate ventilation should be provided so that exposure limits are not exceeded.

Individual protection measures, such as personal protective equipment

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General information: Wash hands before breaks and after work. Use personal protective equip-

ment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be ad-

hered to inhandling the chemicals or the mineral oil products.

Eye/face protection: Safety glasses (EN 166) recommended during refilling.

Skin protection

Hand Protection: Material: Nitrile-butadiene rubber (NBR).

Min. Breakthrough time: >= 480 min

Recommended thickness of the material: >= 0,38 mm

Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the manufacturer of

the protective gloves and has to be observed.

Other: Do not carry cleaning cloths impregnated with the product in trouser pock-

ets. Wear suitable protective clothing.

Respiratory Protection: Ensure good ventilation/exhaustion at the workplace. Avoid breathing va-

pour/ aerosol.

Thermal hazards: No decomposition if used and stored according to specifications.

Hygiene measures: Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated foot-

wear that cannot be cleaned.

Environmental Controls: No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state:liquidForm:liquidColor:Pink

Odor: Characteristic

Odor Threshold: Not applicable for mixtures

oH: 8.3

Freezing point: Not applicable for mixtures

Boiling Point: > 160 °C **Flash Point:** > 124 °C

Evaporation Rate: Not applicable for mixtures

Flammability (solid, gas):

Value not relevant for classification

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Vapor pressure:Not applicable for mixturesVapor density (air=1):Not applicable for mixtures

Density: 1,07 g/cm3 (15 °C)

Solubility(ies)

Solubility in Water: Soluble

Solubility (other): No data available.

Partition coefficient (n-octanol/water): Not applicable for mixtures

Autoignition Temperature:

Decomposition Temperature:

Value not relevant for classification

9.2 Other information No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity: Stable under normal use conditions.

10.2 Chemical Stability: Stable under normal use conditions.

10.3 Possibility of hazardous

reactions:

Stable under normal use conditions.

10.4 Conditions to avoid: Stable under normal use conditions. Avoid heat or contamination.

10.5 Incompatible Materials: Strong oxidizing substances. Strong acids. Strong bases.

10.6 Hazardous Decomposition

Products:

Thermal decomposition or combustion may liberate carbon oxides and oth-

er toxic gases or vapors.

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation: No data available.

Ingestion: Harmful if swallowed.

Skin Contact: No data available.

Eye contact: No data available.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: ATEmix: 3.183 mg/kg

Specified substance(s)

Ethanediol LD 50 (Human): 1.600 mg/kg

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Dermal

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

Ethanediol LD 50 (Mouse): 3.500 mg/kg

Inhalation

Product:

Not classified for acute toxicity based on available data.

Skin Corrosion/Irritation:

Product: Based on available data, the classification criteria are not met.

Serious Eye Damage/Eye Irritation:

Product: Based on available data, the classification criteria are not met.

Respiratory or Skin Sensitization:

Product: Skin sensitizer: Based on available data, the classification criteria are not

met

Respiratory sensitizer: Based on available data, the classification criteria

are not met.

Specified substance(s)

Ethanediol

No sensitizing effect (guinea pig); OECD 406

Germ Cell Mutagenicity

Product: Based on available data, the classification criteria are not met.

Carcinogenicity

Product: Based on available data, the classification criteria are not met.

Reproductive toxicity

Product: Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Single Exposure

Product: Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Repeated Exposure

Product: Based on available data, the classification criteria are met.

Aspiration Hazard

Product: Based on available data, the classification criteria are not met.

Other adverse effects: No data available.

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SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Product: Based on available data, the classification criteria are not met.

Fish

Specified substance(s)

Ethanediol LC 50 (Fish, 96 h): 72.860 mg/l

Aquatic Invertebrates Specified substance(s)

Ethanediol EC 50 (Water Flea, 48 h): > 100 mg/l (OECD 202)

Chronic ToxicityProduct: Based on available data, the classification criteria are not met.

Fish

Specified substance(s)

Ethanediol NOEC (Fish, 7 d): 15.380 mg/l

Aquatic Invertebrates Specified substance(s)

Ethanediol NOEC (Water Flea, 7 d): 8.590 mg/l

12.2 Persistence and Degradability

Biodegradation

Product: Not applicable for mixtures

Specified substance(s)

Ethanediol > 90 % (10 d, OECD 301A) The product is easily biodegradable.

12.3 Bioaccumulative potential

Product: Not applicable for mixtures

12.4 Mobility in soil:

Product: Not applicable for mixtures

12.5 Results of PBT and vPvB

assessment:

The product does not contain any substances fulfilling the PBT/vPvB criteria.

12.6 Other adverse effects: No data available.

Water Hazard Class

(WGK):

WGK 1: slightly water-endangering.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: Dispose in accordance with all applicable regulations.

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Disposal methods: Discharge, treatment, or disposal may be subject to national, state, or local

laws.

European Waste Codes

16 01 14*: antifreeze fluids containing dangerous substances

SECTION 14: Transport information

DECTION 14. Transport information	
ADR/RID	
14.1 UN Number: 14.2 UN Proper Shipping Name: 14.3 Transport Hazard Class(es)	- -
Class: Label(s):	Non-dangerous goods -
Hazard No. (ADR): Tunnel restriction code:	_ _
14.4 Packing Group:14.5 Environmental hazards:14.6 Special precautions for user:	- - -
ADN	
14.1 UN Number: 14.2 UN Proper Shipping Name:	_ _
14.3 Transport Hazard Class(es) Class: Label(s):	Non-dangerous goods
14.3 Packing Group:	
14.5 Environmental hazards:14.6 Special precautions for user:	_ _
·	
IMDG 14.1 UN Number:	_
14.2 UN Proper Shipping Name: 14.3 Transport Hazard Class(es)	
Class: Label(s): EmS No.:	Non-dangerous goods – –
14.3 Packing Group:	-
14.5 Environmental hazards:	_
14.6 Special precautions for user:	-
IATA	
14.1 UN Number: 14.2 Proper Shipping Name: 14.3 Transport Hazard Class(es):	
Class: Label(s):	Non-dangerous goods –
14.4 Packing Group:14.5 Environmental hazards:14.6 Special precautions for user:	_ _ _
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14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable.

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SECTION 15: Regulatory information

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

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

15.2 Chemical safety as-

sessment:

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Revision Information: Vertical lines in the margin indicate an amendment.

Wording of the H-statements in section 2 and 3

H302 Harmful if swallowed.

H373 May cause damage to organs through prolonged or repeated expo-

sure.

Other information: The classification complies with the current EU lists; however, it has been

supplemented with expert literature information and information provided by/about our company. It was derived from the test data and/or the applica-

tion of the conventional method.

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Disclaimer: The data contained in this safety data sheet are based on our current

knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no sig-

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