

according to Regulation (EG) No. 1907/2006

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

1.1. Product identifier

Trade Name:

VAICO Rubber-Care

VAICO Nr.: V60-0141

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

No further relevant information available.

- 1.2.1. Application of the substance / the mixture
Maintenance product

1.3. Details of the supplier of the safety data sheet

1.3.1. Manufacturer/Supplier

VIEROL AG | Karlstraße 19 | 26123 Oldenburg | Germany
Telefon +49 441 - 210 20-0 | Telefax +49 441 - 210 20-111

1.4. Informing department

VIEROL AG | Karlstraße 19 | 26123 Oldenburg | Germany
Telefon +49 441 - 210 20-0 | Telefax +49 441 - 210 20-111

1.5. Emergency telephone number

Giftinformationszentrum Nord (Göttingen)
+49 (0)551/19240

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

- 2.1.1. Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour

- 2.1.2. Classification according to Directive 67/548/EEC or Directive 1999/45/EC
R10: Flammable.

- 2.1.3. Classification system:

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

2.2. Label elements

2.2.1. Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.

2.2.2. Hazard pictograms



2.2.3. Signal word Warning

2.2.3.1. Hazard statements
H226 Flammable liquid and vapour.

2.2.4. Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
 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.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Chemical characterization:

Mixtures

3.1.1. Description

Mixture of the substances listed below with harmless additions.

Dangerous components

CAS: 56-81-5	glycerol	25-50%
EINECS: 200-289-5	substance with a Community workplace exposure limit	
CAS: 64-17-5	ethanol	25-<50%
EINECS: 200-578-6	 F R11	
Reg.nr.: 01-2119457610-43	 Flam. Liq. 2, H225	
	 Eye Irrit. 2, H319	

3.2. Additional information

For the wording of the listed risk phrases refer to section 16.

4. FIRST AID MEASURES

4.1. Description of first aid measures

- 4.1.1. After inhalation
Supply fresh air; consult doctor in case of symptoms.
- 4.1.2. After skin contact
The product is not skin irritating.
- 4.1.3. After eye contact
Rinse opened eye for several minutes under running water.
- 4.1.4. After swallowing
Seek medical treatment.

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

No further relevant information available.

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

No further relevant information available.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

- 5.1.1. Suitable extinguishing agents
CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

5.2. Special hazards arising from the substance or mixture

No further relevant information available.

5.3. Advice for firefighters

- 5.3.1. Protective equipment
No special measures required.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

6.2. Environmental precautions:

Prevent material from reaching sewage system, holes and cellars.

6.3. Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.

6.4. Reference to other sections

See Section 8 for information on personal protection equipment.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling Keep containers tightly sealed.

- 7.1.1. Information about protection against explosions and fires:
 Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1. Storage

- 7.2.1.1. Requirements to be met by storerooms and containers:
 No special requirements.
- 7.2.1.2. Information about storage in one common storage facility:
 TRGS 510
- 7.2.1.3. Further information about storage conditions:
 Keep container tightly sealed.
- 7.2.1.4. Storage class
 3

7.3. Specific end use(s)

No further relevant information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional information about design of technical systems:
 No further data; see item 7.

8.1. Control parameters

8.2.

Components with critical values that require monitoring at the workplace:

56-81-5 glycerol

WEL (Great Britain) Long-term value: 10 mg/m³

64-17-5 ethanol

WEL (Great Britain) Long-term value: 1920 mg/m³, 1000 ppm

- 8.2.1. Additional information:
 The lists that were valid during the compilation were used as basis.

8.3. Exposure controls

8.3.1. Personal protective equipment

- 8.3.1.1. General protective and hygienic measures
 Wash hands during breaks and at the end of the work.
- 8.3.1.2. Breathing equipment:
 Not required.
- 8.3.1.3. Protection of hands:
 Solvent resistant gloves
- 8.3.1.4. Material of gloves
 Nitrile rubber, NBR
 Recommended thickness of the material: ≥ 0.7 mm

- 8.3.1.5. Penetration time of glove material
 Value for the permeation: Level $\leq$ 480 min
 The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
- 8.3.1.6. Eye protection:
 Tightly sealed safety glasses.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<i>Form:</i>	<i>Fluid</i>
<i>Colour:</i>	<i>Colourless</i>
<i>Smell:</i>	<i>Characteristic</i>
<i>pH-value:</i>	<i>not applicable</i>
<i>Change in condition</i>	
<i>Melting point/Melting range:</i>	<i>Not determined</i>
<i>Boiling point/Boiling range:</i>	<i>78 °C</i>
<i>Flash point:</i>	<i>23 °C</i>
<i>Ignition temperature:</i>	<i>400 °C</i>
<i>Self-inflammability:</i>	<i>Product is not selfigniting.</i>
<i>Danger of explosion:</i>	<i>Product is not explosive. However, formation of explosive air/steam mixtures is possible.</i>
<i>Critical values for explosion:</i>	
<i>Lower:</i>	<i>0.9 Vol %</i>
<i>Upper:</i>	<i>15.0 Vol %</i>
<i>Steam pressure at 20 °C:</i>	<i>57 hPa</i>
<i>Density at 20 °C</i>	<i>1.024 g/cm³</i>
<i>Solubility in / Miscibility with Water:</i>	<i>Fully miscible</i>
<i>Viscosity:</i>	
<i>dynamic:</i>	<i>Not determined.</i>
<i>kinematic:</i>	<i>Not determined.</i>
<i>Solvent content:</i>	
<i>Organic solvents:</i>	<i>28.1 %</i>
<i>Water:</i>	<i>41.6 %</i>

9.2. Other information

No further relevant information available.

10. STABILITY AND REACTIVITY

- 10.1. Reactivity** Stable under normal temperature and normal pressure.
- 10.2. Chemical stability**
Conditions to be avoided:
No decomposition if used according to specifications.
- 10.3. Possibility of hazardous reactions**
No dangerous reactions known
- 10.4. Conditions to avoid**
No further relevant information available.
- 10.5. Incompatible materials:**
No further relevant information available.
- 10.6. Hazardous decomposition products:**
None

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

11.1.1. Acute toxicity:

LD/LC50 values that are relevant for classification:

56-81-5 glycerol

Oral	LD50	12600 mg/kg (rat)
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64-17-5 ethanol

Oral	LD50	10470 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rabbit)
Inhalative	LC50/4 h	> 20 mg/l (mouse)

11.1.2. Primary irritant effect:

on the skin:	No irritant effect.
on the eye:	No irritant effect.
Sensitization:	No sensitizing effect known.

12. ECOLOGICAL INFORMATION

12.1. 12.1 Toxicity

12.1.1. Aquatic toxicity:

64-17-5 ethanol

EC50 / 48 h	> 10000 mg/l (daphnia magna)
EC50 / 72 h	275 mg/l (Chlorella vulgaris)

- 12.2. Persistence and degradability**
No further relevant information available.
- 12.3. Bioaccumulative potential**
No further relevant information available.

12.4. Mobility in soil No further relevant information available.

12.4.1. Additional ecological information:

12.4.1.1. General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

12.5. Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6. Other adverse effects

No further relevant information available.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

13.1.1. Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

13.1.2. Uncleaned packagings:

13.1.2.1. Recommendation:

Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

14.1. UN-Number

ADR, IMDG, IATA UN1170

14.2. UN proper shipping name

ADR 1170 ETHANOL (ETHYLALKOHOL), Gemisch
IMDG ETHANOL (ETHYL ALCOHOL), mixture
IATA ETHANOL, mixture

14.3. Transport hazard class(es)

ADR, IMDG, IATA



Class 3 Flammable liquids.
Label 3

14.4. Packing group

ADR, IMDG, IATA III

14.5. Environmental hazards:

Not applicable.

14.6. Special precautions for user Warning:

Flammable liquids.

Kemler Number: 30

EMS Number: F-E,S-D

- 14.7. Transport in bulk according**
to Annex II of MARPOL73/78 and the IBC Code
Not applicable.

14.7.1. Transport/Additional information:
ADR

Limited quantities (LQ)	5L
Transport category	3
Tunnel restriction code	D/E
Remarks:	Packed bottles are corresponding to ADR, app. A, chapt. 3.4 (limited quantity).

UN „Model Regulation“: UN1170, ETHANOL (ETHYL ALCOHOL), mixture, 3, III

15. REGULATORY INFORMATION

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

15.1.1. National regulations

15.1.2. Technical instructions (air):

Class	Share in %
Wasser	41.6
NK	28.1

15.1.3. Water hazard class:

Water hazard class 1 (Self-assessment): slightly hazardous for water.

- 15.2. Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- 16.1. Relevant phrases**

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
R11	Highly flammable.

- 16.2. Abbreviations and acronyms:**

ADR:	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS:	European List of Notified Chemical Substances
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
Flam. Liq. 2:	Flammable liquids, Hazard Category 2
Flam. Liq. 3:	Flammable liquids, Hazard Category 3
Eye Irrit. 2:	Serious eye damage/eye irritation, Hazard Category 2