

according to 1907/2006/EC, Article 31

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

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

Use of the substance/mixture:

VAICO CLEAN SCREEN DEFROST

VAICO No.:

V60-0139, V60-0140

1.2. Details of the supplier of the safety data sheet

1.2.1. Manufacturer/Supplier:

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

1.2.2. Responsible Department:

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

1.3. Emergency telephone number:

Beratungsstelle für Vergiftungserscheinungen, Berlin +49(0)30 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.

2.2. Label elements

2.2.1. Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS02
Signal word Warning

Hazard statements:

H226 Flammable liquid and vapour.

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.

P271 Use only outdoors or in a well-ventilated area.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

2.3.1. Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Chemical characterisation: Mixtures

Description:

Mixture of the substances listed below with harmless additions.

3.2. Dangerous components:

CAS:	64-17-5	ethanol	25-<50%
EINECS:	200-578-6	Flam. Liq. 2, H225;	
Reg.no.:	01-2119457610-43	Eye Irrit. 2, H319	
CAS:	56-81-5	glycerol	3-<10%
EINECS:	200-289-5	substance with a Community workplace exposure limit	

Additional information

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

4. DESCRIPTION OF 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

In case of symptoms consult doctor.

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:
Wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

- 6.1. Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- 6.2. Environmental precautions**
Dilute with much water.
- 6.3. Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 6.4. Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

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**
Storage
Requirements to be met by storerooms and containers:
No special requirements.
Information about storage in one common storage facility: TRGS 510
Further information about storage conditions:
Keep container tightly sealed.
- 7.3. Specific end use(s)**
No further relevant information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1. Additional information about design of technical systems:**
No further data; see item 7.
- 8.2. Control parameters**
Components with critical values that require monitoring at the workplace:
- | | | | | |
|-------------------------|---------------------|------------------|--------------------------|----------|
| 64-17-5 ethanol | WEL (Great Britain) | Long-term value: | 1920 mg/m ³ , | 1000 ppm |
| 56-81-5 glycerol | WEL (Great Britain) | Long-term value: | 10 mg/m ³ | |
- Additional information:**
The lists that were valid during the compilation were used as basis.
- 8.3. Exposure controls**
- 8.3.1. Personal protective equipment

- 8.3.2. General protective and hygienic measures
Wash hands during breaks and at the end of the work.
- 8.3.3. Breathing equipment
Not required.
- 8.3.4. Protection of hands
Solvent resistant gloves.
- 8.3.5. Material of gloves
Butyl rubber, BR
Recommended thickness of the material: ≥ 0.7 mm
- 8.3.6. Penetration time of glove material
Value for the permeation: Level ≤ 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.
- 8.3.7. Eye protection
Tightly sealed safety glasses.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General Information

<i>Form:</i>	<i>Fluid</i>
<i>Colour:</i>	<i>Blue</i>
<i>Smell:</i>	<i>Mild</i>
<i>pH-value:</i>	<i>neutral</i>

Change in condition

<i>Melting point/Melting range:</i>	<i>ca. -42 °C</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: 3.5 Vol % Upper: 15.0 Vol %</i>
<i>Steam pressure at 20°C:</i>	<i>57 hPa</i>
<i>Density at 20 °C:</i>	<i>0.95 g/cm³</i>
<i>Solubility in/Miscibility with Water:</i>	<i>Fully miscible</i>
<i>Viscosity:</i>	<i>dynamic: Not determined. kinematic: Not determined.</i>
<i>Solvent content:</i>	<i>Organic solvents: 40.2 % Water: 51.1 %</i>

9.2. Other information

No further relevant information available.

10. STABILITY AND REACTIVITY

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

10.2.1. Conditions to be avoided:
No decomposition if used according to specifications.

10.3. Possibility of hazardous reactions
No dangerous reactions known.

10.3.1. Conditions to avoid:
No further relevant information available.

10.3.2. Incompatible materials:
No further relevant information available.

10.4. Hazardous decomposition products
None

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

11.1.1. Acute toxicity
Based on available data, the classification criteria are not met.

11.2. Primary irritant effect:

11.2.1. Skin corrosion/irritation
Based on available data, the classification criteria are not met.

11.2.2. Serious eye damage/irritation
Based on available data, the classification criteria are not met.

11.2.3. Respiratory or skin sensitisation
Based on available data, the classification criteria are not met.

11.2.4. CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

11.2.5. Germ cell mutagenicity
Based on available data, the classification criteria are not met.

11.2.6. Carcinogenicity
Based on available data, the classification criteria are not met.

11.2.7. Reproductive toxicity
Based on available data, the classification criteria are not met.

11.2.8. STOT-single exposure
Based on available data, the classification criteria are not met.

11.2.9. STOT-repeated exposure
Based on available data, the classification criteria are not met.

11.2.10. Aspiration hazard
Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Aquatic toxicity:
No further relevant information available.

12.2. Persistence and degradability
No further relevant information available.

12.3. Bioakkumulationspotenzial
No further relevant information available.

12.4. Mobility in soil
No further relevant information available.

12.5. Additional ecological information:

12.5.1. 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.

12.6. Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

12.7. 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.
Hand over to disposers of hazardous waste.

13.1.2. Uncleaned packagings:

13.1.3. Recommendation:
Disposal must be made according to official regulations.

13.1.4. Recommended cleaning agent:
Water, if necessary with cleaning agent.

14. TRANSPORT INFORMATION

14.1. UN-Number
ADR, IMDG 1987

14.2. UN proper shipping name
ADR 1987 ALKOHOLE, N.A.G., (ETHANOL (ETHYLALKOHOL))
IMDG ALCOHOLS, N.O.S., (ETHANOL)

14.3. Transport hazard class(es) ADR, IMDG



Class 3
Label 3

14.4. Packing group

ADR, IMDG III

14.5. Environmental hazards

Not applicable.

14.6. Special precautions

- 14.6.1. for user Warning:
Kemler Number: 30
EMS Number: F-E,S-D

14.7. Transport in bulk

according to Annex II of Marpol 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“ UN 1987 ALCOHOLS, N.O.S. MIXTURE, 3, III

15. REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation**

specific for the substance or mixture

15.2. National regulations:**15.3. Technical instructions (air):**

Class Share in %

Water 48.3

NK 51.7

15.3.1. Water hazard class:

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

15.4. 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.

16.2. Abkürzungen und Akronyme:

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

GHS Globally Harmonised 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)

PBT Persistent, Bioaccumulative and Toxic

vPvB	very Persistent and very Bioaccumulative
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

* Data compared to the previous version altered.