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## Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

**1.1 Product identifier** 

(GB)

## Screenwash Anti-freeze R539 25 | Art.: 6160 0144, Art.: 6164 0144

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

Uses advised against: No information available at present.

## 1.3 Details of the supplier of the safety data sheet

Theo Förch GmbH & Co. KG Theo-Förch-Str. 11 – 15 74196 Neuenstadt Tel.: 07139/95-0 Fax: 07139/95-199 Email: info@foerch.de Homepage: www.foerch.com

Details of the supplier of the safety data sheet see section 16 of this safety data sheet.

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

## 1.4 Emergency telephone number Emergency information services / official advisory body:

**Telephone number of the company in case of emergencies:** +49 (0) 700 / 24 112 112 (TFC)

## **SECTION 2: Hazards identification**

| 2.1 Classification of the substance or mixture<br>Classification according to Regulation (EC) 1272/2008 (CLP) |                 |                                     |  |  |  |  |  |
|---|-----------------|-------------------------------------|--|--|--|--|--|
| Hazard class  | Hazard category | Hazard statement                    |  |  |  |  |  |
| Flam. Liq.  | 3               | H226-Flammable liquid and vapour.   |  |  |  |  |  |
| Eye Irrit.  | 2               | H319-Causes serious eye irritation. |  |  |  |  |  |

2.2 Label elements Labeling according to Regulation (EC) 1272/2008 (CLP)



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H226-Flammable liquid and vapour. H319-Causes serious eye irritation.

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280-Wear eye protection. P337+P313-If eye irritation persists: Get medical advice / attention.

#### 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %). Dangerous vapours

In case of spreading near the ground, flashback to distance sources of ignition is possible.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

#### n.a. 3.2 Mixtures

| Ethanol  |   |
|--|---|
| Registration number (REACH)  | 01-2119457610-43-XXXX                                   |
| Index  | 603-002-00-5  |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 200-578-6   |
| CAS  | 64-17-5   |
| content %  | 50-70   |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Flam. Liq. 2, H225                                      |
|  | Eye Irrit. 2, H319                                      |
| Specific Concentration Limits and ATE                                  | Eye Irrit. 2, H319: >=50 %                              |
|  |   |
| Ethanediol   | Substance for which an EU exposure limit value applies. |
| Registration number (REACH)  |   |
| Index  | 603-027-00-1  |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 203-473-3   |
| CAS  | 107-21-1  |
| content %  | 1-<25   |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Acute Tox. 4, H302                                      |

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

First-aiders should ensure they are protected!



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Never pour anything into the mouth of an unconscious person!

#### Inhalation

(GB)

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms. If the person is unconscious, place in a stable side position and consult a doctor. Respiratory arrest - Artificial respiration apparatus necessary.

#### Skin contact

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

#### Ingestion

Rinse the mouth thoroughly with water.

Give copious water to drink - consult doctor immediately.

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

The following may occur: Irritation of the eyes

Irritation of the skin. Drying of the skin.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

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

n.c.

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

## Suitable extinguishing media

Water jet spray / alcohol resistant foam / CO2 / dry extinguisher.

Unsuitable extinguishing media

High volume water jet

## 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop: Oxides of carbon Toxic pyrolysis products. Explosive vapour/air or gas/air mixtures. Oxides of sulphur

## 5.3 Advice for firefighters

For personal protective equipment see Section 8. In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire Full protection, if necessary. Cool container at risk with water. Dispose of contaminated extinction water according to official regulations.

#### **SECTION 6:** Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

#### 6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination. Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping.

#### 6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.



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## 6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk. Prevent surface and ground-water infiltration, as well as ground penetration. Do not pour down the drain undiluted. If accidental entry into drainage system occurs, inform responsible authorities.

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

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.

#### 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

**SECTION 7: Handling and storage** 

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

## 7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Avoid inhalation of the vapours.

Keep away from sources of ignition - Do not smoke.

Take precautions against electrostatic charges.

Electrical equipment must be suitable for temperature class T 2 (Germany).

Use explosion-proof equipment.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

#### 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work. Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

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

Keep out of access to unauthorised individuals. Not to be stored in gangways or stair wells. Store product closed and only in original packing. Do not store with oxidizing agents. Observe special storage conditions. Store in a well ventilated place. Protect from direct sunlight and warming. Store cool.

## 7.3 Specific end use(s)

No information available at present.

**SECTION 8: Exposure controls/personal protection** 

## 8.1 Control parameters

| Chemical Name  | Ethanol    |  |  | Content %:50-70 |  |  |
|--|------------|--|--|-----------------|--|--|
| WEL-TWA: 1000 ppm (1920 mg/m   | 3)         | WEL-STEL:  |  |                 |  |  |
| Monitoring procedures: -   |            | Draeger - Alcohol 25/a Ethanol (81 01 631)<br>Compur - KITA-104 SA (549 210)<br>DFG (D) (Loesungsmittelgemische), Methode Nr. 6 DFG (E) (Solvent mixtures) - 2013,<br>2002 - EU project BC/CEN/ENTR/000/2002-16 card 63-2 (2004)<br>DFG Meth. Nr. 2 (D) (Loesungsmittelgemische) - 2013 - EU project<br>BC/CEN/ENTR/000/2002-16 card 63-2 (2004)<br>DFG Meth. Nr. 3 (D) (Loesungsmittelgemische) - 2013 - EU project<br>BC/CEN/ENTR/000/2002-16 card 63-2 (2004) |  |                 |  |  |
| BMGV:  |            | Other information:   |  |                 |  |  |
| Chemical Name  | Ethanediol |  |  | Content %:1-<25 |  |  |
| WEL-TWA: 10 mg/m3 (particulate)<br>(vapour) (WEL), 20 ppm (52 mg/m3) |            | WEL-STEL: 104 mg/m3 (vapour) (WEL), 40 ppm<br>(104 mg/m3) (EU)   |  |                 |  |  |



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Monitoring procedures:

Draeger - Ethylene Glycol 10 (5) (81 01 351)

- Compur KITA-232 SA (502 342)
- Compur KITA-232 SB (550 267) NIOSH 5500 (ETHYLENE GLYCOL) 1993
- NIOSH 5523 (GLYCOLS) 1996 OSHA PV2024 (Ethylene glycol) 1999 EU project BC/CEN/ENTR/000/2002-16 card 11-2 (2004)
- Draeger Álcohol 100/a (CH 29 701)

BMGV: ---

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Other information: Sk (particulate, vapour)

| Area of application | Exposure route /<br>Environmental<br>compartment           | Effect on health            | Descriptor | Value | Unit                | Note |
|---------------------|--|-----------------------------|------------|-------|---------------------|------|
|                     | Environment - freshwater                                   |                             | PNEC       | 0,96  | mg/l                |      |
|                     | Environment - marine                                       |                             | PNEC       | 0,79  | mg/l                |      |
|                     | Environment - water,<br>sporadic (intermittent)<br>release |                             | PNEC       | 2,75  | mg/l                |      |
|                     | Environment - sewage<br>treatment plant                    |                             | PNEC       | 580   | mg/l                |      |
|                     | Environment - sediment,<br>freshwater                      |                             | PNEC       | 3,6   | mg/kg               |      |
|                     | Environment - soil   |                             | PNEC       | 0,63  | mg/kg dry<br>weight |      |
|                     | Environment - oral (animal feed)                           |                             | PNEC       | 0,38  | g/kg feed           |      |
|                     | Environment - sediment,<br>marine                          |                             | PNEC       | 2,9   | mg/kg dry<br>weight |      |
| Consumer            | Human - dermal   | Short term, local effects   | DNEL       | 950   | mg/m3               |      |
| Consumer            | Human - inhalation   | Long term, systemic effects | DNEL       | 114   | mg/m3               |      |
| Consumer            | Human - oral   | Long term, systemic effects | DNEL       | 87    | mg/kg               |      |
| Consumer            | Human - dermal   | Long term, systemic effects | DNEL       | 206   | mg/kg bw/d          |      |
| Consumer            | Human - inhalation   | Short term, local effects   | DNEL       | 950   | mg/m3               |      |
| Workers / employees | Human - dermal   | Long term, systemic effects | DNEL       | 343   | mg/kg bw/d          |      |
| Workers / employees | Human - inhalation   | Long term, systemic effects | DNEL       | 950   | mg/m3               |      |
| Workers / employees | Human - inhalation   | Short term, local effects   | DNEL       | 1900  | mg/m3               |      |

| Area of application | Exposure route /<br>Environmental<br>compartment           | Effect on health | Descriptor | Value | Unit                | Note |
|---------------------|--|------------------|------------|-------|---------------------|------|
|                     | Environment - freshwater                                   |                  | PNEC       | 10    | mg/l                |      |
|                     | Environment - marine                                       |                  | PNEC       | 1     | mg/l                |      |
|                     | Environment - sediment,<br>freshwater                      |                  | PNEC       | 37    | mg/kg dry<br>weight |      |
|                     | Environment - sediment,<br>marine                          |                  | PNEC       | 3,7   | mg/kg dry<br>weight |      |
|                     | Environment - soil   |                  | PNEC       | 1,53  | mg/kg dry<br>weight |      |
|                     | Environment - sewage<br>treatment plant                    |                  | PNEC       | 199,5 | mg/l                |      |
|                     | Environment - water,<br>sporadic (intermittent)<br>release |                  | PNEC       | 10    | mg/l                |      |



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| Consumer            | Human - dermal     | Long term, systemic effects | DNEL | 53  | mg/kg bw/d |  |
|---------------------|--------------------|-----------------------------|------|-----|------------|--|
| Consumer            | Human - inhalation | Long term, local effects    | DNEL | 7   | mg/kg bw/d |  |
| Workers / employees | Human - dermal     | Long term, systemic         | DNEL | 106 | mg/kg bw/d |  |
|                     |                    | effects                     |      |     |            |  |
| Workers / employees | Human - inhalation | Long term, local effects    | DNEL | 35  | mg/m3      |  |

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

\*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision. (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

## 8.2 Exposure controls

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## 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

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

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection: Solvent resistant protective gloves (EN ISO 374). If applicable Protective nitrile gloves (EN ISO 374). Minimum layer thickness in mm: >= 0,7 Permeation time (penetration time) in minutes: <= 480 The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time. Protective hand cream recommended. Skin protection - Other: Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection: If OES or MEL is exceeded. Gas mask filter A (EN 14387), code colour brown Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

If applicable, these are included in the individual protective measures (eye/face protection, skin protection, respiratory protection).

Additional information on hand protection - No tests have been performed.



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In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

### 8.2.3 Environmental exposure controls

No information available at present.

(GB)

#### **SECTION 9: Physical and chemical properties**

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

Physical state: Colour: Odour: Melting point/freezing point: Boiling point or initial boiling point and boiling range: Flammability: Lower explosion limit: Upper explosion limit: Flash point: Auto-ignition temperature: Decomposition temperature: pH: Kinematic viscosity: Solubility: Partition coefficient n-octanol/water (log value): Vapour pressure: Density and/or relative density: Relative vapour density: Particle characteristics:

## 9.2 Other information

Explosives:

Oxidising liquids:

Liquid Blue Perfumed There is no information available on this parameter. 78 °C Flammable 3.5 Vol-% 19 Vol-% 23 °C 460 °C There is no information available on this parameter. 7,5 (20°C) There is no information available on this parameter. Mixable Does not apply to mixtures. There is no information available on this parameter. <0,9 g/cm3 (20°C) There is no information available on this parameter. Does not apply to liquids.

Product is not explosive. Possible build up of explosive/highly flammable vapour/air mixture.

#### **SECTION 10: Stability and reactivity**

#### **10.1 Reactivity**

See also Subsection 10.2 to 10.6. The product has not been tested.

## 10.2 Chemical stability

See also Subsection 10.1 to 10.6. Stable with proper storage and handling.

#### **10.3 Possibility of hazardous reactions** See also Subsection 10.1 to 10.6.

No decomposition if used as intended.

#### 10.4 Conditions to avoid

Heating, open flame, ignition sources **10.5 Incompatible materials** 

Avoid contact with strong oxidizing agents.

Avoid contact with other chemicals.

## 10.6 Hazardous decomposition products

See also Subsection 10.1 to 10.5. No decomposition when used as directed.

#### **SECTION 11: Toxicological information**

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008



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|                                    |                  |                 |               |             |                        |                   |
| Possibly more information on hea   | alth effects see | Section 2.1 (cl | assification) |             |                        |                   |
| Screenwash Anti-freeze R539        |                  |                 | assincation). |             |                        |                   |
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| Toxicity / effect                  | Endpoint         | Value           | Unit          | Organism    | Test method            | Notes             |
| Acute toxicity, by oral route:     | ATE              | >2000           |               | Organishi   | rest method            | calculated value  |
|                                    | AIE              | >2000           | mg/kg         |             |                        |                   |
| Acute toxicity, by dermal route:   |                  |                 |               |             |                        | n.d.a.            |
| Acute toxicity, by inhalation:     |                  |                 |               |             |                        | n.d.a.            |
| Skin corrosion/irritation:         |                  |                 |               |             |                        | n.d.a.            |
| Serious eye damage/irritation:     |                  |                 |               |             |                        | n.d.a.            |
| Respiratory or skin                |                  |                 |               |             |                        | n.d.a.            |
| sensitisation:                     |                  |                 |               |             |                        |                   |
| Germ cell mutagenicity:            |                  |                 |               |             |                        | n.d.a.            |
| Carcinogenicity:                   |                  |                 |               |             |                        | n.d.a.            |
| Reproductive toxicity:             |                  |                 |               |             |                        | n.d.a.            |
| Specific target organ toxicity -   |                  |                 |               |             |                        | n.d.a.            |
| single exposure (STOT-SE):         |                  |                 |               |             |                        |                   |
| Specific target organ toxicity -   |                  |                 |               |             |                        | n.d.a.            |
| repeated exposure (STOT-RE):       |                  |                 |               |             |                        |                   |
| Aspiration hazard:                 |                  |                 |               |             |                        | n.d.a.            |
| Symptoms:                          |                  |                 |               |             |                        | n.d.a.            |
| - · ·                              |                  |                 |               |             |                        |                   |
| Ethanol                            |                  |                 |               |             |                        |                   |
| Toxicity / effect                  | Endpoint         | Value           | Unit          | Organism    | Test method            | Notes             |
| Acute toxicity, by oral route:     | LD50             | 10470           | mg/kg         | Rat         | OECD 401 (Acute Oral   |                   |
| <i></i>                            |                  |                 | 0.0           |             | Toxicity)              |                   |
| Acute toxicity, by dermal route:   | LD50             | >2000           | mg/kg         | Rabbit      | OECD 402 (Acute        |                   |
|                                    |                  |                 | 5.5           |             | Dermal Toxicity)       |                   |
| Acute toxicity, by inhalation:     | LC50             | 51-124,7        | mg/l/4h       | Rat         | OECD 403 (Acute        | Vapours           |
|                                    | 2000             | ••••            |               |             | Inhalation Toxicity)   | rapeare           |
| Skin corrosion/irritation:         |                  |                 |               | Rabbit      | OECD 404 (Acute        | Not irritant      |
|                                    |                  |                 |               |             | Dermal                 |                   |
|                                    |                  |                 |               |             | Irritation/Corrosion)  |                   |
| Serious eye damage/irritation:     |                  |                 |               | Rabbit      | OECD 405 (Acute Eye    | Irritant          |
| Senous eye damage/initation.       |                  |                 |               | Rabbit      | Irritation/Corrosion)  | Innan             |
| Respiratory or skin                |                  |                 |               | Mouse       | OECD 429 (Skin         | No (skin contact  |
| sensitisation:                     |                  |                 |               | wouse       | Sensitisation - Local  | INU (SKIT CUTIACL |
| วธาวแวสแบบ.                        |                  |                 |               |             |                        |                   |
| Corm coll mutagonisiti ::          |                  |                 |               | Salmanalla  | Lymph Node Assay)      | Noactivo          |
| Germ cell mutagenicity:            |                  |                 |               | Salmonella  | OECD 471 (Bacterial    | Negative          |
|                                    |                  |                 |               | typhimurium | Reverse Mutation Test) | Newsti            |
| Germ cell mutagenicity:            |                  |                 |               | Mouse       | OECD 476 (In Vitro     | Negative          |
|                                    |                  |                 |               |             | Mammalian Cell Gene    |                   |
|                                    |                  |                 |               |             | Mutation Test)         |                   |
| Germ cell mutagenicity:            |                  |                 |               |             | OECD 473 (In Vitro     | Negative          |
|                                    |                  |                 |               |             | Mammalian              |                   |
|                                    |                  |                 |               |             | Chromosome             |                   |
|                                    |                  |                 |               |             | Aberration Test)       |                   |
| Germ cell mutagenicity:            |                  |                 |               |             | OECD 475 (Mammalian    | Negative          |
| - •                                |                  |                 |               |             | Bone Marrow            | -                 |
|                                    |                  |                 |               |             | Chromosome             |                   |
|                                    |                  |                 |               |             | Aberration Test)       |                   |
|                                    |                  | 1               |               | -           | ,                      | 1                 |
| Aspiration hazard:                 |                  |                 |               | Human being |                        | No indications of |



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| Symptoms: |  | respiratory     |
|-----------|--|-----------------|
|           |  | distress,       |
|           |  | drowsiness,     |
|           |  | unconsciousness |
|           |  | , drop in blood |
|           |  | pressure,       |
|           |  | vomiting,       |
|           |  | coughing,       |
|           |  | headaches,      |
|           |  | intoxication,   |
|           |  | drowsiness,     |
|           |  | mucous          |
|           |  | membrane        |
|           |  | irritation,     |
|           |  | dizziness,      |
|           |  | nausea          |

| Ethanediol                       |          |       |         |             |                                   |  |
|----------------------------------|----------|-------|---------|-------------|-----------------------------------|--|
| Toxicity / effect                | Endpoint | Value | Unit    | Organism    | Test method                       | Notes  |
| Acute toxicity, by oral route:   | LD50     | >2000 | mg/kg   | Rat         | IUCLID Chem. Data<br>Sheet (ESIS) | Does not<br>conform with EU<br>classification.                             |
| Acute toxicity, by oral route:   | LD50     | 1600  | mg/kg   | Human being |                                   |  |
| Acute toxicity, by dermal route: | LD50     | 9530  | mg/kg   | Rabbit      |                                   |  |
| Acute toxicity, by inhalation:   | LC50     | >2,5  | mg/l/4h | Rat         |                                   | Analogous conclusion   |
| Symptoms:                        |          |       |         |             |                                   | ataxia, breathing<br>difficulties,<br>unconsciousness<br>, cramps, fatigue |

## 11.2. Information on other hazards

| Toxicity / effect                | Endpoint | Value | Unit | Organism | Test method | Notes  |
|----------------------------------|----------|-------|------|----------|-------------|--|
| Endocrine disrupting properties: | •        |       |      |          |             | Does not apply to mixtures.  |
| Other information:               |          |       |      |          |             | No other<br>relevant<br>information<br>available on<br>adverse effects<br>on health. |

| E | Ethanol           |          |       |      |          |             |       |
|---|-------------------|----------|-------|------|----------|-------------|-------|
| 1 | Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |



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|                    | <br> | <br>                         |
|--------------------|------|------------------------------|
| Other information: |      | Excessive                    |
|                    |      | alcohol                      |
|                    |      | consumption                  |
|                    |      | during                       |
|                    |      | pregnancy                    |
|                    |      | induces the                  |
|                    |      | foetus alcohol               |
|                    |      | syndrome                     |
|                    |      | Synuronic<br>(reduced weight |
|                    |      | (reduced weight              |
|                    |      | at birth, physical           |
|                    |      | and mental                   |
|                    |      | disorders).,                 |
|                    |      | There is no sign             |
|                    |      | that this                    |
|                    |      | syndrome is also             |
|                    |      | caused by                    |
|                    |      | dermal or                    |
|                    |      | inhalative                   |
|                    |      | absorption.,                 |
|                    |      | Experiences on               |
|                    |      | persons.                     |
|                    |      | persons.                     |

## **SECTION 12: Ecological information**

| Screenwash Anti-freeze                           |                       |      |       |      |          |             |  |
|--|-----------------------|------|-------|------|----------|-------------|--|
| 25   Art.: 6160 0144, Art.:<br>Toxicity / effect | 6164 0144<br>Endpoint | Time | Value | Unit | Organism | Test method | Notes  |
| 12.1. Toxicity to fish:                          |                       |      |       |      |          |             | n.d.a.   |
| 12.1. Toxicity to daphnia:                       |                       |      |       |      |          |             | n.d.a.   |
| 12.1. Toxicity to algae:                         |                       |      |       |      |          |             | n.d.a.   |
| 12.2. Persistence and degradability:             |                       |      |       |      |          |             | The surfactant(s<br>contained in this<br>mixture<br>complies(comply<br>with the<br>biodegradability<br>criteria as laid<br>down in<br>Regulation (EC)<br>No.648/2004 on<br>detergents. Data<br>to support this<br>assertion are<br>held at the<br>disposal of the<br>competent<br>authorities of the<br>Member States<br>and will be made<br>available to<br>them, at their<br>direct request of<br>a detergent<br>manufacturer. |
| 12.3. Bioaccumulative<br>potential:              |                       |      |       |      |          |             | n.d.a.   |
| 12.4. Mobility in soil:                          |                       |      |       |      |          |             | n.d.a.   |
| 12.5. Results of PBT                             |                       |      |       |      |          |             | n.d.a.   |
| and vPvB assessment                              |                       |      |       |      |          |             |  |
| 12.6. Endocrine                                  |                       |      |       |      |          |             | Does not apply   |
| disrupting properties:                           |                       |      |       |      |          | 1           | to mixtures.   |



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| 12.7. Other adverse |  | No information   |
|---------------------|--|------------------|
| effects:            |  | available on     |
|                     |  | other adverse    |
|                     |  | effects on the   |
|                     |  | environment.     |
| Other information:  |  | According to the |
|                     |  | recipe, contains |
|                     |  | no ÁOX.          |
| Other information:  |  | DOC-elimination  |
|                     |  | degree(complexi  |
|                     |  | ng organic       |
|                     |  | substance)>=     |
|                     |  | 80%/28d: n.a.    |

| Ethanol                                     | En du sint | There | Malua                | 11   | 0                      | To at mostly a d   | Netes   |
|---|------------|-------|----------------------|------|------------------------|--|---|
| Toxicity / effect                           | Endpoint   | Time  | Value                | Unit | Organism               | Test method  | Notes   |
| 12.1. Toxicity to fish:                     | LC50       | 96h   | 13000                | mg/l | Oncorhynchus<br>mykiss | OECD 203 (Fish,<br>Acute Toxicity<br>Test)   |   |
| 12.1. Toxicity to fish:                     | NOEC/NOEL  | 120h  | 250                  | mg/l | Brachydanio rerio      | OECD 212 (Fish,<br>Short- term<br>Toxicity Test on<br>Embryo and Sac-<br>fry Stages)                       |   |
| 12.1. Toxicity to daphnia:                  | EC50       | 48h   | 5414                 | mg/l | Daphnia magna          | OECD 202<br>(Daphnia sp.<br>Acute<br>Immobilisation<br>Test)   |   |
| 12.1. Toxicity to daphnia:                  | NOEC/NOEL  | 10d   | 9,6                  | mg/l | Ceriodaphnia spec.     |  | References                                      |
| 12.1. Toxicity to algae:                    | EC50       | 72h   | 275                  | mg/l | Chlorella vulgaris     | OECD 201 (Alga,<br>Growth Inhibition<br>Test)  |   |
| 12.2. Persistence and degradability:        |            | 28d   | 97                   | %    | activated sludge       | OECD 301 B<br>(Ready<br>Biodegradability -<br>Co2 Evolution<br>Test)                                       | Readily<br>biodegradable                        |
| 12.3. Bioaccumulative potential:            | Log Pow    |       | (-0,35) -<br>(-0,32) |      |                        |  | Bioaccumulation<br>is unlikely<br>(LogPow < 1). |
| 12.3. Bioaccumulative potential:            | BCF        |       | 0,66 -<br>3,2        |      |                        |  |   |
| 12.4. Mobility in soil:                     | H (Henry)  |       | 0,00013<br>8         |      |                        |  |   |
| 12.4. Mobility in soil:                     | Koc        |       | 1,0                  |      |                        |  | Highestimated                                   |
| 12.5. Results of PBT<br>and vPvB assessment |            |       |                      |      |                        |  | No PBT<br>substance, No<br>vPvB substance       |
| Toxicity to bacteria:                       | IC50       | 3h    | >1000                | mg/l | activated sludge       | OECD 209<br>(Activated Sludge,<br>Respiration<br>Inhibition Test<br>(Carbon and<br>Ammonium<br>Oxidation)) | Analogous<br>conclusion                         |
| Other organisms:                            | NOEC/NOEL  |       | 280                  | mg/l | Lemna gibba            | OECD 201 (Alga,<br>Growth Inhibition<br>Test)  |   |
| Ethanediol                                  | -          | -     |                      |      |                        |  |   |
| Toxicity / effect                           | Endpoint   | Time  | Value                | Unit | Organism               | Test method  | Notes   |



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| 12.2. Persistence and degradability: |         | 14d | 83-96  | %    |                        | OECD 301 C<br>(Ready<br>Biodegradability -<br>Modified MITI<br>Test (I)) |   |
|--------------------------------------|---------|-----|--------|------|------------------------|--|---|
| 12.3. Bioaccumulative potential:     | Log Pow |     | -1,36  |      |                        |  | Bioaccumulation<br>is unlikely<br>(LogPow < 1). |
| 12.1. Toxicity to fish:              | LC50    | 96h | >10000 | mg/l | Pimephales<br>promelas | IUCLID Chem.<br>Data Sheet (ESIS)  |   |
| 12.1. Toxicity to daphnia:           | EC50    | 48h | >100   | mg/l | Daphnia magna          | OECD 202<br>(Daphnia sp.<br>Acute<br>Immobilisation<br>Test)             |   |
| Other information:                   | BOD5    |     | 0,78   | g/g  |                        |  | IUCLID  |
| Other information:                   | COD     |     | 1,19   | g/g  |                        |  | IUCLID  |
| Other information:                   | ThOD    |     | 1,29   | g/g  |                        |  | IUCLID  |
| Other information:                   | BOD5    |     | 60     | %    |                        |  |   |

## **SECTION 13: Disposal considerations**

## 13.1 Waste treatment methods For the substance / mixture / residual amounts

EC disposal code no.:

(GB)

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be

allocated under certain circumstances. (2014/955/EU)

07 06 04 other organic solvents, washing liquids and mother liquors

14 06 03 other solvents and solvent mixtures

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

Do not dispose of with household waste.

#### For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

Do not perforate, cut up or weld uncleaned container.

Residues may present a risk of explosion.

## **SECTION 14: Transport information**

| General statements<br>14.1. UN number or ID number:<br>Transport by road/by rail (ADR/RID)<br>14.2. UN proper shipping name:<br>UN 1170 ETHANOL SOLUTION<br>14.3. Transport hazard class(es):<br>14.4. Packing group:<br>Classification code:<br>LQ:<br>14.5. Environmental hazards:<br>Tunnel restriction code: | 1170<br>3<br>III<br>F1<br>5 L<br>Not applicable<br>D/E |   |
|--|--|---|
| <b>Transport by sea (IMDG-code)</b><br>14.2. UN proper shipping name:<br>ETHANOL SOLUTION<br>14.3. Transport hazard class(es):<br>14.4. Packing group:<br>EmS:   | 3<br>III<br>F-E, S-D                                   | ٠ |



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#### Marine Pollutant: 14.5. Environmental hazards:

(GB)

### Transport by air (IATA)

14.2. UN proper shipping name:Ethanol solution14.3. Transport hazard class(es):14.4. Packing group:14.5. Environmental baserday

14.5. Environmental hazards:

#### 14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained. All persons involved in transporting must observe safety regulations. Precautions must be taken to prevent damage.

#### 14.7. Maritime transport in bulk according to IMO instruments

Freighted as packaged goods rather than in bulk, therefore not applicable. Minimum amount regulations have not been taken into account. Danger code and packing code on request. Comply with special provisions.

## **SECTION 15: Regulatory information**

n.a

3

Ш

Not applicable

Not applicable

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

Observe restrictions:

Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)! Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

| Hazard categories | Notes to Annex I | Qualifying quantity (tonnes) of      | Qualifying quantity (tonnes) of      |
|-------------------|------------------|--------------------------------------|--------------------------------------|
|                   |                  | dangerous substances as              | dangerous substances as              |
|                   |                  | referred to in Article 3(10) for the | referred to in Article 3(10) for the |
|                   |                  | application of - Lower-tier          | application of - Upper-tier          |
|                   |                  | requirements                         | requirements                         |
| P5c               |                  | 5000                                 | 50000                                |

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC): **REGULATION (EC) No 648/2004** perfumes LIMONENE CITRAL METHYLISOTHIAZOLINONE

BENZISOTHIAZOLINONE

## 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## **SECTION 16: Other information**

1-16

Revised sections: Employee training in handling dangerous goods is required. These details refer to the product as it is delivered. Employee instruction/training in handling hazardous materials is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

| Clas | ssification | in accorda | nce with | regulation |
|------|-------------|------------|----------|------------|
| (EC  | ) No. 1272  | 2008 (CLP  | )        | -          |

**Evaluation method used** 

54 %



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(GB)

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| Flam. Liq. 3, H226 | Classification based on test data.                 |
|--------------------|--|
| Eye Irrit. 2, H319 | Classification according to calculation procedure. |

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3). H225 Highly flammable liquid and vapour. H302 Harmful if swallowed.

H319 Causes serious eye irritation.

Flam. Liq. — Flammable liquid Eye Irrit. — Eye irritation Acute Tox. — Acute toxicity - oral

#### Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended. Guidelines for the preparation of safety data sheets as amended (ECHA). Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA). Safety data sheets for the constituent substances. ECHA Homepage - Information about chemicals. GESTIS Substance Database (Germany). German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany). EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended. National Lists of Occupational Exposure Limits for each country as amended. Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended. Förch SAS Förch SAS S.C. Foerch S.R.L.

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(GB)

#### Any abbreviations and acronyms used in this document:

according, according to acc., acc. to Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the ADR International Carriage of Dangerous Goods by Road) AOX Adsorbable organic halogen compounds approx. approximately Article number Art., Art. no. ASTM ASTM International (American Society for Testing and Materials) Acute Toxicity Estimate ATE BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BCF **Bioconcentration factor** BSEF The International Bromine Council body weight bw Chemical Abstracts Service CAS Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances CLP and mixtures) CMR carcinogenic, mutagenic, reproductive toxic DMEL Derived Minimum Effect Level DNEL Derived No Effect Level DOC Dissolved organic carbon dw drv weight for example (abbreviation of Latin 'exempli gratia'), for instance e.g. EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants) European Community EC ECHA European Chemicals Agency ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect EEC European Economic Community European Inventory of Existing Commercial Chemical Substances EINECS ELINCS European List of Notified Chemical Substances EN European Norms EPA United States Environmental Protection Agency (United States of America)  $ErCx, E\mu Cx, ErLx (x = 10, 50)$ Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants) et cetera etc. FU European Union EVAL Ethylene-vinyl alcohol copolymer Fax. Fax number gen. general GHS Globally Harmonized System of Classification and Labelling of Chemicals GWP Global warming potential Koc Adsorption coefficient of organic carbon in the soil octanol-water partition coefficient Kow IARC International Agency for Research on Cancer International Air Transport Association IATA IBC (Code) International Bulk Chemical (Code) International Maritime Code for Dangerous Goods IMDG-code including, inclusive incl IUCLID International Uniform Chemical Information Database IUPAC International Union for Pure Applied Chemistry LC50 Lethal Concentration to 50 % of a test population LD50 Lethal Dose to 50% of a test population (Median Lethal Dose) Logarithm of adsorption coefficient of organic carbon in the soil Log Koc Log Kow, Log Pow Logarithm of octanol-water partition coefficient



(GB) Page 17 of 17 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0005 Replacing version dated / version: 20.02.2019 / 0004 Valid from: 01.11.2021 PDF print date: 01.11.2021 Screenwash Anti-freeze R539 25 | Art.: 6160 0144, Art.: 6164 0144 Limited Quantities 10 MARPOL International Convention for the Prevention of Marine Pollution from Ships not applicable n.a. n.av. not available not checked n.c. no data available n.d.a. NIOSH National Institute for Occupational Safety and Health (USA) NI P No-longer-Polymer NOEC, NOEL No Observed Effect Concentration/Level OECD Organisation for Economic Co-operation and Development org. organic OSHA Occupational Safety and Health Administration (USA) persistent, bioaccumulative and toxic PBT ΡE Polyethylene PNEC Predicted No Effect Concentration ppm parts per million Polyvinylchloride PVC REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals) 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List REACH-IT List-No. Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT. Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International RID Carriage of Dangerous Goods by Rail) SVHC Substances of Very High Concern Telephone Tel TOC Total organic carbon UN RTDG United Nations Recommendations on the Transport of Dangerous Goods VOC Volatile organic compounds very persistent and very bioaccumulative vPvB wet weight wwt The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

These statements were made by: Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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