

## Safety Data Sheet

according to 1907/2006/EC, Article 31

Date: 27.04.2011

Replaces: 13.05.2010

Ref: 0114.7.DB/DR

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### 1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** ZWALUW SILI-KILL®
- **Article number:** VH
- **Application of the substance / the preparation** Cleaning material/ Detergent
- **Manufacturer/Supplier:**  
 SIROFLEX LIMITED  
 Dodworth Business Park  
 Dodworth  
 Barnsley  
 South Yorkshire  
 S75 3SP  
 Tel: 01226 771600  
 Fax: 01226 771601
- **Further information obtainable from:**  
 www.siroflex.co.uk  
 info@siroflex.co.uk
- **Information in case of emergency:**  
 info@siroflex.co.uk  
 Tel.: 01226 771600

### 2 Hazards identification

- **Hazard description:**



Xi Irritant

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 10 Flammable.

R 36/38 Irritating to eyes and skin.

R 67 Vapours may cause drowsiness and dizziness.

- **Classification system:**



The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

### 3 Composition/information on ingredients

- **Chemical characterization**

- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 64741-65-7 EINECS: 265-067-2	Naphtha (petroleum), heavy alkylate	R 67	60-100%
CAS: 85536-14-7 EINECS: 287-494-3	Benzenesulfonic acid, 4-C10-13-sec-alkylderivs.	 C; R 34	5-10%
CAS: 64-17-5 EINECS: 200-578-6	ethanol	 F; R 11	1-5%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

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### 4 First aid measures

- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.

### 5 Fire-fighting measures

- **Suitable extinguishing agents:**  
Water haze  
Alcohol resistant foam  
Fire-extinguishing powder  
Carbon dioxide
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Protective equipment:** Mouth respiratory protective device.
- **Additional information**  
Cool endangered receptacles with water spray.  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

### 6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.

### 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
Ensure good ventilation/exhaustion at the workplace.  
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.

### 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

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· <b>Ingredients with limit values that require monitoring at the workplace:</b>
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<b>64-17-5 ethanol (1-5%)</b>
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WEL   Long-term value: 1920 mg/m <sup>3</sup> , 1000 ppm
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· **Additional information:** The lists valid during the making were used as basis.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.

· **Respiratory protection:** Not required.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

### 9 Physical and chemical properties

· <b>General Information</b>	
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<b>Form:</b>	Fluid
<b>Colour:</b>	Clear
<b>Odour:</b>	Characteristic

· <b>Change in condition</b>	
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<b>Melting point/Melting range:</b>	-25°C
<b>Boiling point/Boiling range:</b>	184°C

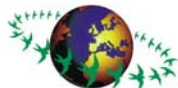
· <b>Flash point:</b>	21 - 55°C
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· <b>Ignition temperature:</b>	354°C
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· <b>Self-igniting:</b>	Product is not selfigniting.
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· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
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<b>· Explosion limits:</b>	
<b>Lower:</b>	0.7 Vol %
<b>Upper:</b>	6.5 Vol %
<b>· Vapour pressure at 20°C:</b>	1.1 hPa
<b>· Density at 20°C:</b>	0.79 g/cm <sup>3</sup>
<b>· Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
<b>· pH-value:</b>	Undetermined.
<b>· Solvent content:</b>	
<b>VOC (EC)</b>	1.30 %
<b>VOC (EC)</b>	10.3 g/l

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** Danger of forming toxic pyrolysis products.

### 11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

**85536-14-7 Benzenesulfonic acid, 4-C10-13-sec-alkylderivs.**

Oral	LD50	1350 mg/kg (rat)
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**64741-65-7 Naphtha (petroleum), heavy alkylate**

Oral	LD50	> 6000 mg/kg (rat)
Dermal	LD50	> 3000 mg/kg (rabbit)
Inhalative	LC50/4 h	> 7.8 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Irritant

### 12 Ecological information

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

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### 13 Disposal considerations

- **Product:**

- **Recommendation**

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

- **European waste catalogue**

08 04 09	waste adhesives and sealants containing organic solvents or other dangerous substances
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- **Uncleaned packaging:**

- **Recommendation:**

Disposal must be made according to official regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

### 14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 3 Flammable liquids.

- **Danger code (Kemler):** 33

- **UN-Number:** 2924

- **Packaging group:** III

- **Hazard label:** 3+8

- **Description of goods:** 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Benzenesulfonic acid, 4-C10-13-sec-alkylderivs., Naphtha (petroleum), heavy alkylate)

- **Limited quantities (LQ)** LQ7

- **Maritime transport IMDG:**



- **IMDG Class:** 3

- **UN Number:** 2924

- **Label** 3+8

- **Packaging group:** III

- **EMS Number:** F-E,S-C

- **Marine pollutant:** No

- **Proper shipping name:** FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Benzenesulfonic acid, 4-C10-13-sec-alkylderivs., Naphtha (petroleum), heavy alkylate)

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 3

- **UN/ID Number:** 2924

- **Label** 3+8

- **Packaging group:** III

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· **Proper shipping name:** FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Benzenesulfonic acid, 4-C10-13-sec-alkylderivs., Naphtha (petroleum), heavy alkylate)

### 15 Regulatory information

· **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· **Code letter and hazard designation of product:**



Xi Irritant

· **Risk phrases:**

- 10 Flammable.
- 36/38 Irritating to eyes and skin.
- 67 Vapours may cause drowsiness and dizziness.

· **Safety phrases:**

- 2 Keep out of the reach of children.
- 24/25 Avoid contact with skin and eyes.
- 46 If swallowed, seek medical advice immediately and show this container or label.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant R-phrases**

- 11 Highly flammable.
- 34 Causes burns.
- 67 Vapours may cause drowsiness and dizziness.

· **Department issuing MSDS:** Product safety department.

· **Contact:** Mr. C.J.A. Timmermans