

Article No.: 23251 KIWO StencilGuard EL Coating  
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## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifiers

Article No. (manufacturer/supplier): 23251  
Identification of the substance or mixture KIWO StencilGuard EL Coating

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

Cleaner / Thinner. Reserved for industrial and professional use.

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

#### supplier (manufacturer/importer/downstream user/distributor)

KISSEL + WOLF GmbH  
In den Ziegelwiesen 6 Telephone: 49 6222 578-0  
69168 Wiesloch Telefax: 49 6222 578-100  
E-mail: info@kiwo.de

#### Dept. responsible for information:

EHS Environment-Health-Safety  
E-mail ehs@kiwo.de

### 1.4. Emergency telephone number

Emergency telephone number +49 6222 578 219

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Directive 67/548/EEC or 1999/45/EC

This mixture is classified as hazardous according to 1999/45/EC.

F; R11 Highly flammable Highly flammable

### 2.2. Label elements

The product is classified and labelled according to EC directives or corresponding national laws.

#### Labelling (67/548/EEC or 1999/45/EC)



F Highly flammable

#### Hazard statements

11 Highly flammable

#### Precautionary statements

16 Keep away from sources of ignition. - No smoking.  
51 Use only in well-ventilated areas.

#### contains:

n.a.

#### Special provisions concerning the labelling of certain mixtures

n.a.

### 2.3. Other hazards

## 3. Composition / Information on ingredients

### 3.2. Mixtures

#### Product description / chemical characterization

Description Mixture of components, as listed below, with nonhazardous constituents

#### Hazardous ingredients

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

EC No.	REACH No.	Wt %
CAS No.	Chemical name	Remark
INDEX No.	classification:	
200-578-6		
64-17-5	ethanol	50 - 100
603-002-00-5	Flam. Liq. 2 H225	

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) No 453/2010



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201-159-0	01-2119457290-43	
78-93-3	butanone	1 - 2,5
606-002-00-3	Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336	

**Classification according to Directive 67/548/EEC or 1999/45/EC**

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201-159-0	01-2119457290-43	
78-93-3	butanone	1 - 2,5
606-002-00-3	F; R11 / Xi; R36 / R66 / R67	

**Additional information**

Full text of H-phrases: see section 16.

**4. First-aid measures**

**4.1. Description of first aid measures**

**General information**

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice. In case of irregular breathing or respiratory arrest provide artificial respiration.

**Following skin contact**

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately.

**After eye contact**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**After ingestion**

Seek medical advice immediately. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

**5. Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Carbon dioxide Water mist Foam

**Extinguishing media which must not be used for safety reasons:**

strong water jet

**5.2. Special hazards arising from the substance or mixture**

Gases/vapours, toxic

**5.3. Advice for firefighters**

Provide a conveniently located respiratory protective device.

**Additional information**

The danger areas must be delimited and identified using relevant warning and safety signs. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

**6. Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Keep away from sources of ignition. Ventilate affected area. Remove persons to safety. Do not breathe vapours. See protective measures under point 7 and 8.

**6.2. Environmental precautions**

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Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations. Provide good ventilation.

**6.3. Methods and material for containment and cleaning up**

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13).

**6.4. Reference to other sections**

Observe protective provisions (see chapter 7 and 8).

**7. Handling and storage**

**7.1. Precautions for safe handling**

**Advices on safe handling**

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Product may become electrostatically charged. When transferring, earthed pipework shall be used exclusively. Anti-static clothing including shoes are recommended. Use only spark proof tools. Avoid contact with skin and eyes. Do not inhale vapours or mist.

Do not eat, drink or smoke when using this product.

Personal protection equipment: refer to chapter 8.

Follow the legal protection and safety regulations.

**7.2. Conditions for safe storage, including any incompatibilities**

**Technical measures and storage conditions**

Keep container tightly closed in a cool, well-ventilated place.

**Requirements for storage rooms and vessels**

Always keep in containers that correspond to the material of the original container. Ensure adequate ventilation of the storage area.

**Hints on joint storage**

Keep away from strongly acidic and alkaline materials as well as oxidizers.

**Additional information**

VCI-storage class, see Chapter 15

**7.3. Specific end use(s)**

Observe technical data sheet. Observe instructions for use.

**8. Exposure controls / Personal protection**

**8.1. Control parameters**

**Occupational exposure limit values:**

butanone

INDEX No. 606-002-00-3 / EC No. 201-159-0 / CAS No. 78-93-3

TRGS 900, AGW, TWA: 600 mg/m<sup>3</sup>; 200 ppm

TRGS 900, AGW, STEL: 600 mg/m<sup>3</sup>; 200 ppm

TRGS 903, BGW, TWA: 5 mg/L

Remark: 2-Butanon; Urin; Expositionsende bzw. Schichtende

ethanol

INDEX No. 603-002-00-5 / EC No. 200-578-6 / CAS No. 64-17-5

TRGS 900, AGW, TWA: 960 mg/m<sup>3</sup>; 500 ppm

TRGS 900, AGW, STEL: 1920 mg/m<sup>3</sup>; 1000 ppm

**Additional information**

TWA : long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

**8.2. Exposure controls**

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

**Personal protection equipment**

**Respiratory protection**

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection

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must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

#### Hand protection

Chemical resistant protective gloves: DIN EN 374  
Recommendation for contact by spatter: Protection Index 2  
Permeation time >30 min., e.g. butyl rubber 0,4 mm  
Recommendation for direct contact: Protection Index 6  
Permeation time >480 min., e.g. nitrile rubber 0,4 mm

#### Eye protection

Wear closed protection glasses. DIN EN 166

#### Protective clothing

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

#### Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

#### Environmental exposure controls

This solvent is to be sent to recycling or to disposal after use. Incorrect disposal endangers the environment. After use, all mixtures with other foreign substances or solvents of other types is forbidden.

## 9. Physical and chemical properties

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

#### Appearance:

**Physical state** liquid  
**Colour** depending on coloration  
**Odour** typical

#### Safety relevant basis data

		Method	Remark
<b>Flash point:</b>	< 21 °C	DIN 53213	
<b>Ignition temperature (AIT)</b>	425 °C		
<b>Lower explosion limit</b>	1,8 Vol-%		
<b>Upper explosion limit</b>	15,0 Vol-%		
<b>Vapour pressure at 20 °C:</b>	58,85 mbar		
<b>Density at 20 °C:</b>	0,80 g/cm <sup>3</sup>		
<b>Water solubility (g/L)</b>	miscible		
<b>pH at 20 °C:</b>	-		
<b>Viscosity at 23 °C:</b>	11 s 4 mm	DIN 53211	
<b>Initial boiling point and boiling range</b>	78 °C (101,3 kPa)		

### 9.2. Other information:

## 10. Stability and reactivity

### 10.1. Reactivity

### 10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

### 10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

### 10.4. Conditions to avoid

### 10.5. Incompatible materials

### 10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

## 11. Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

Toxicological data are not available.

#### Irritant and corrosive effects

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Toxicological data are not available.

**Sensitisation**

Toxicological data are not available.

**Specific target organ toxicity**

Toxicological data are not available.

**Aspiration hazard**

Toxicological data are not available.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Toxicological data are not available.

**Practical experience/human evidence**

Other observations:

Prolonged or repeated contact with the preparation can lead to irritations of mucous membranes and of skin such as redness, formation of blebs, dermatitis, etc..In case of inhalation dizziness, Nausea Inhalation causes narcotic effects/intoxication.Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

**Overall Assessment on CMR properties**

The ingredients in this preparation do not meet the criteria for classification as CMR category 1 or 2 according to 67/548/EEC.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified according to the toxicological dangers.See chapter 2 for details.

**12. Ecological information**

**overall evaluation**

Do not allow to enter into surface water or drains.Do not store at public landfills.

**12.1. Toxicity**

No information available.

**Long-term Ecotoxicity**

Toxicological data are not available.

**12.2. Persistence and degradability**

Toxicological data are not available.

**12.3. Bioaccumulative potential**

Toxicological data are not available.

**Bioconcentration factor (BCF)**

Toxicological data are not available.

**12.4. Mobility in soil**

Toxicological data are not available.

**12.5. Results of PBT assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Other adverse effects**

**13. Disposal considerations**

**13.1. Waste treatment methods**

**Appropriate disposal / Product Recommendation**

**List of proposed waste codes/waste designations in accordance with EWC**

080111 waste paint and varnish containing organic solvents or other dangerous substances

**packaging**

**Recommendation**

Non-contaminated packages may be recycled.Vessels not properly emptied are special waste.

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## 14. Transport information

### 14.1. UN number

1993

### 14.2. UN proper shipping name

Land transport (ADR/RID): Flammable liquid, n.o.s.  
(Ethanol)  
Sea transport (IMDG): FLAMMABLE LIQUID, N.O.S.  
(Ethanol)  
Air transport (ICAO-TI / IATA-DGR): Flammable liquid, n.o.s.  
(Ethanol)

### 14.3. Transport hazard class(es)

3

### 14.4. Packing group

II

### 14.5. Environmental hazards

Land transport (ADR/RID) n.a.  
Marine pollutant n.a.

### 14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.  
Advices on safe handling: see parts 6 - 8

#### Additional information

#### Land transport (ADR/RID)

tunnel restriction code D/E

#### Sea transport (IMDG)

EmS-No. F-E, S-E  
Packaging >30 I

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

## 15. Regulatory information

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

#### EU legislation

#### VOC

VOC-value (in g/L): ISO 11890-2 780,800  
VOC-value (in g/L): ASTM D 2369 780,800

#### Observe in addition any national regulations!

#### Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.  
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).  
calculated with mixing rule

#### Substance/product listed in the following inventories:

### 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this preparation were not carried out.

## 16. Other information

#### Relevant R-and H-phrases (Number and full text):

Flam. Liq. 2 / H225	flammable liquids	Highly flammable liquid and vapour.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
STOT SE 3 / H336	Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.

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F; R11	Highly flammable	Highly flammable
Xi; R36	Irritant	Irritating to eyes.
R66		Repeated exposure may cause skin dryness or cracking.
R67		Vapours may cause drowsiness and dizziness.

**Additional information**

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.