

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



Article No.: 20312  
Print date 31.10.2015  
Version 2.0

KIWOBOND 930  
Revision date 12.05.2015  
Issue date 12.05.2015

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**1. Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifiers**

Article No. (manufacturer/supplier): 20312  
Identification of the substance or mixture KIWOBOND 930

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

Adhesive. 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  
69168 Wiesloch

Telephone: 49 6222 578-0  
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 Regulation (EC) No. 1272/2008 [CLP]**

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

Flam. Liq. 2 / H225	flammable liquids	Highly flammable liquid and vapour.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Sens. 1 / H317	respiratory or skin sensitisation	May cause an allergic skin reaction.
STOT SE 3 / H336	Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.

**2.2. Label elements**

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

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

**Hazard pictograms**



**Danger**

**Hazard statements**

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H336 May cause drowsiness or dizziness.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P280 Wear protective gloves and eye/face protection.  
P370 + P378 In case of fire: Use Extinguishing powder or sand to extinguish.  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P403 + P235 Store in a well-ventilated place. Keep cool.

**contains:**

3-trimethoxysilylpropan-1-thiol  
ethyl acetate

**Supplemental Hazard information (EU)**

EUH066 Repeated exposure may cause skin dryness or cracking.

**2.3. Other hazards**

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### 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:	
205-500-4	01-2119475103-46	
141-78-6	ethyl acetate	50 - 70
607-022-00-5	Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336	
200-662-2	01-2119471330-49	
67-64-1	acetone	10 - 12,5
606-001-00-8	Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336	
224-588-5		
4420-74-0	3-trimethoxysilylpropan-1-thiol	1 - 2
	Acute Tox. 4 H302 / Skin Sens. 1B H317 / Aquatic Chronic 2 H411	
202-715-5	01-2119533030-60	
98-94-2	N,N-dimethylcyclohexylamine	0,15 - 0,2
	Flam. Liq. 3 H226 / Acute Tox. 3 H301 / Acute Tox. 3 H311 / Acute Tox. 3 H331 / Skin Corr. 1B H314 / Eye Dam. 1 H318	

##### Additional information

Full text of classification: 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. Special protective equipment for firefighters:

Provide a conveniently located respiratory protective device.

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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

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:

ethyl acetate

INDEX No. 607-022-00-5 / EC No. 205-500-4 / CAS No. 141-78-6

TRGS 900, AGW, TWA: 1500 mg/m<sup>3</sup>; 400 ppm

TRGS 900, AGW, STEL: 3000 mg/m<sup>3</sup>; 800 ppm

acetone

INDEX No. 606-001-00-8 / EC No. 200-662-2 / CAS No. 67-64-1

TRGS 900, AGW, TWA: 1200 mg/m<sup>3</sup>; 500 ppm

TRGS 900, AGW, STEL: 2400 mg/m<sup>3</sup>; 1000 ppm

TRGS 903, BGW, TWA: 80 mg/L

Remark: Aceton; Urin; Expositionsende bzw. Schichtende

#### Additional information

TWA : long-term occupational exposure limit value

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STEL : short-term occupational exposure limit value  
Ceiling : peak limitation

**DNEL:**

acetone

INDEX No. 606-001-00-8 / EC No. 200-662-2 / CAS No. 67-64-1

DNEL long-term dermal (systemic), Workers: 186 mg/kg

DNEL acute inhalative (local), Workers: 2420 mg/m<sup>3</sup>

DNEL acute inhalative (systemic), Workers: 1210 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Workers: 1210 mg/m<sup>3</sup>

ethyl acetate

INDEX No. 607-022-00-5 / EC No. 205-500-4 / CAS No. 141-78-6

DNEL long-term dermal (local), Workers: 63 mg/kg

DNEL acute inhalative (local), Workers: 1468 mg/m<sup>3</sup>

DNEL acute inhalative (systemic), Workers: 1468 mg/m<sup>3</sup>

DNEL long-term inhalative (local), Workers: 734 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Workers: 734 mg/m<sup>3</sup>

N,N-dimethylcyclohexylamine

EC No. 202-715-5 / CAS No. 98-94-2

DNEL acute inhalative (local), Workers: 35 mg/m<sup>3</sup>

**PNEC:**

acetone

INDEX No. 606-001-00-8 / EC No. 200-662-2 / CAS No. 67-64-1

PNEC aquatic, freshwater: 10,6 mg/L

PNEC aquatic, marine water: 1,06 mg/L

PNEC aquatic, intermittent release: 21 mg/L

PNEC sediment, freshwater: 30,4 mg/kg

PNEC sediment, marine water: 3,04 mg/kg

PNEC, Soil: 29,5 mg/kg

PNEC sewage treatment plant (STP): 100 mg/L

ethyl acetate

INDEX No. 607-022-00-5 / EC No. 205-500-4 / CAS No. 141-78-6

PNEC aquatic, freshwater: 0,24 mg/L

PNEC aquatic, marine water: 0,024 mg/L

PNEC aquatic, intermittent release: 1,65 mg/L

PNEC sediment, freshwater: 0,24 mg/kg

PNEC sediment, marine water: 0,015 mg/kg

PNEC, Soil: 0,148 mg/kg

PNEC sewage treatment plant (STP): 650 mg/L

**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 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**

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

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

**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**

		<b>Method</b>	<b>Remark</b>
<b>Flash point:</b>	-11 °C	DIN 53213	
<b>Ignition temperature in °C</b>	460 °C		
<b>Lower explosion limit</b>	2,1 Vol-%		
<b>Upper explosion limit</b>	13,0 Vol-%		
<b>Vapour pressure at 20 °C:</b>	96,22 mbar		
<b>Density at 20 °C:</b>	0,94 g/cm <sup>3</sup>		
<b>Water solubility (g/L)</b>	insoluble		
<b>pH at 20 °C:</b>	-		
<b>Viscosity at °C:</b>	900 mPa.s		
<b>Initial boiling point and boiling range</b>	56 °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**

Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]

No data on preparation itself available.

**11.1. Information on toxicological effects**

**Acute toxicity**

ethyl acetate

oral, LD50, Rat: 5600 mg/kg

dermal, LD50, Rabbit: 18000 mg/kg

N,N-dimethylcyclohexylamine

oral, LD50, Rat: 272 mg/kg

dermal, LD50, Rat: > 400 mg/kg

**skin corrosion/irritation; Serious eye damage/eye irritation**

Toxicological data are not available.

**Respiratory or skin sensitisation**

Toxicological data are not available.

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

Toxicological data are not available.

**Specific target organ toxicity**

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Toxicological data are not available.

**Aspiration hazard**

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 mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

**Remark**

There is no information available on the preparation itself .

**12. Ecological information**

**overall evaluation**

Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]

Do not store at public landfills.

**12.1. Toxicity**

ethyl acetate

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 230 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna: 717 mg/L (48 h)

Algae toxicity, ErC50, Desmodesmus subspicatus.: 3300 mg/L

**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**

080409                      waste adhesives and sealants containing organic solvents or other dangerous substances

**packaging**

**Recommendation**

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

**14. Transport information**

**14.1. UN number**

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**14.2. UN proper shipping name**

Land transport (ADR/RID): Adhesives  
Sea transport (IMDG): ADHESIVES  
Air transport (ICAO-TI / IATA-DGR): Adhesives

**14.3. Transport hazard class(es)**

3

**14.4. Packing group**

Land transport (ADR/RID): III  
for packages > 450 litres: II  
Sea transport (IMDG): III  
for packages > 30 litres: II  
Air transport (ICAO-TI / IATA-DGR): III  
for packages > 30 litres: 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 E  
for packages > 450 litres: D/E

**Sea transport (IMDG)**

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

**14.7. Transport in bulk according to Annex II of MARPOL 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 11890-2 744,679  
VOC-value (in g/L): ASTM D 2369 744,679

**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).

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

Listed in TOXIC SUBSTANCES CONTROL ACT (TSCA)

**15.2. Chemical Safety Assessment**

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

**16. Other information**

**Full text of classification in section 3:**

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.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Skin Sens. 1B / H317	respiratory or skin sensitisation	May cause an allergic skin reaction.

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Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
Flam. Liq. 3 / H226	flammable liquids	Flammable liquid and vapour.
Acute Tox. 3 / H301	Acute toxicity (oral)	Toxic if swallowed.
Acute Tox. 3 / H311	Acute toxicity (dermal)	Toxic in contact with skin.
Acute Tox. 3 / H331	Acute toxicity (inhalative)	Toxic if inhaled.
Skin Corr. 1B / H314	skin corrosion/irritation	Causes severe skin burns and eye damage.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.

**Additional information**

Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]

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.