

Product: 20305      **KIWOBOND 2000**  
Date: 02-03-03      Revision date: 01-28-05

## 1. IDENTIFICATION OF PRODUCT AND COMPANY

Product Code: 20305  
Product Name: **KIWOBOND 2000**  
Company: KISSEL + WOLF GmbH  
In den Ziegelwiesen 6  
D-69168 Wiesloch  
Importer: KIWO, Inc.  
1929 Marvin Circle  
Seabrook, TX 77586 USA  
Phone: 281-474-9777  
Fax: 281-474-7325  
Supplier: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
MSDS prepared by: Clark E. King  
Phone: 281-474-9777

Recommended use:  
Adhesive

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of the below mentioned materials  
and non-hazardous substances

Hazardous components:

<b>EINECS-No</b>	<b>Name</b>	<b>Hazard</b>	<b>% content</b>	<b>LD50</b>	<b>LC50</b>
<b>CAS-No.</b> 205-500-4 141-78-6	<b>R-phrases</b> ethyl acetate 11-36-66-67	 Xi,F	 50 - 100	 5620mg/kg rat,oral	 not avail.
200-662-2 67-64-1	acetone 11-36-66-67	 Xi,F	 10 - 12.5	 5800mg/kg rat/oral	 not avail.
224-588-5 4420-784-0	Trimethoxysilan, Mercaptopropyl- 21/22-51/53	 Xn,N	 0.5 - 1	 not avail.	 not avail.

Additional information:  
For full text of the risk phrases see section 16.

### 3. HAZARD IDENTIFICATION OF THE PREPARATION

#### Potential Health Effects Eyes

This product may be irritating to the eyes.

#### Potential Health Effects: Skin

Repeated exposure may cause skin dryness or cracking

Some absorption expected

#### Potential Health Effects: Ingestion

No acute effects expected

#### Potential Health Effects: Inhalation

Inhalation of this product may be irritating to the respiratory system.

Vapours may cause drowsiness and dizziness

F	Highly flammable
Xi	Irritant
11	Highly flammable.
36	Irritating to eyes.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.

### 4. FIRST AID MEASURES

After skin contact, clean thoroughly with soap and water.

After eye contact, (remove contact lenses) keep eyelid open, rinse under running water for at least 10 minutes. If irritation continues, seek medical advice.

After ingestion, do not induce vomiting seek medical advice. If unconscious, to not administer anything orally. Place in stable side position and seek medical advice.

If breathing is irregular or has stopped, apply artificial respiration.

### 5. FIRE-FIGHTING MEASURES

Flammable- yes      Means of extinction-:foam, dry powder, carbon dioxide

Flash point- -11 °C      Upper flammable limit- 13%

Explosion data impact- not explosive      Lower flammable limit- 2.1%

Explosion data static- above flashpoint yes

Hazardous combustion products- typical carbon oxygen compounds

Autoignition temp- 460 °C

### 6. ACCIDENTAL RELEASE MEASURES

Do not empty into drains. Keep away sources of ignition. Ensure sufficient ventilation. Prevent unauthorized access. Collect with liquid absorbing material and proceed according to local waste disposal regulations.

### 7. HANDLING AND STORAGE

Keep container tightly closed and in a cool and well ventilated

place. Ensure adequate ventilation, especially when using a spray-gun. Avoid contact with skin and eyes. Avoid flammable/explosive air/vapour-mixtures and prevent concentrations exceeding the exposure limits.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational exposure limit:

CAS #	Name	OSHA PEL	ACGIH TLV
141-78-6	ethyl acetate	400 ppm	400 ppm
67-64-1	acetone	1000 ppm	750 ppm

### Engineering controls

General- not required

Local exhaust- recommended

Other- none

### Personal Protection

Gloves- recommended

Respirator- yes if local or general exhaust is not used

Eye- protective goggles recommended

Footwear- not required

Clothing- not required

Other- none

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid

Colour: depending on coloration

Odor : typical

Flash point : -11° C

Ignition temperature : 460° C

Density : 0.94 g/ml

Viscosity : 900 mPa.s

Explosion limits : 2.1 -13.0 Vol. %

Boiling point : 56° C

Vapour density: >1(air=1)

Vapour pressure: 400mm Hg@ 39.5°C

Freezing point: not known, gels below 0°C

pH: not applicable

Coefficient of water/ oil distribution: not known

## 10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions (see section 7).

Store as a flammable liquid

No other reactivity or hazardous decomposition products

## 11. TOXICOLOGICAL INFORMATION

Repeated or prolonged contact causes local irritation of skin and mucous membranes, particularly the eyes. Inhalation of high concentrations may cause nausea, dizziness, narcotic effect.

General information:

Effects of acute exposure-

Repeated or prolonged contact causes local irritation of skin and mucous membranes, particularly the eyes. Inhalation of high concentrations may cause nausea, dizziness, narcotic effect.

Effects of chronic exposure-none known

Irritancy of product- yes

Skin sensitization- no

Respiratory sensitization- none known

Carcinogenicity- no

IARC- no

ACGIA- no

Reproductive toxicity-none known

Teratogenicity-none known

Embryotoxicity-none known

Mutagenicity-none known

Name of synergistic products/effects-none known

## 12. ECOLOGICAL INFORMATION

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Do not empty into drains or release into open water. Do not store at public waste disposal sites.

## 13. WASTE DISPOSAL INFORMATION

Dispose of as flammable hazardous waste

Empty container : scrap metal recycling or re-conditioning

Soiled container : (treatment like product itself)

## 14. TRANSPORT INFORMATION

ADR/RID/DOT:      Class: 3

UN: 1133

Adhesives, containing flammable liquid  
(not viscous)

(vapor pressure 110 kPa maximum at 50°C)

Packaging group: III

IMDG:      Class: 3

EMS: 3-05

UN: 1133

ADHESIVES

Marine pollutant: n.a.

Packaging group: III

## 15. REGULATORY INFORMATION

Classified as B2, D2B under the CDR.

### R-phrases:

- 11      Highly flammable.
- 36      Irritating to eyes.
- 66      Repeated exposure may cause skin dryness or cracking.
- 67      Vapours may cause drowsiness and dizziness.

### S-phrases:

- 7/9      Keep container tightly closed and in a well-ventilated place.
- 16      Keep away from sources of ignition - No smoking.
- 24      Avoid contact with skin.
- 26      In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

## 16. OTHER INFORMATION

Text of risk phrases mentioned in section 2:

- 11      Highly flammable.
- 36      Irritating to eyes.
- 66      Repeated exposure may cause skin dryness or cracking.
- 67      Vapours may cause drowsiness and dizziness.
- 21/22      Harmful in contact with skin and if swallowed.
- 51/53      Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

For further information please refer to our technical information sheet. Data in this MSDS correspond with our current level of knowledge, but do not represent any assurance of product properties. The user personally is responsible for compliance with all legal requirements.