

Material Safety Data Sheet
(According to ANSI Z400.1-2004)

Product: 20711
Date: 1/17/2003

KIWODUR 930
Revision date: 3/31/2010

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product Code: 20711
Product Name: **KIWODUR 930**
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
Emergency Contact: 1-800-255-3924 (Chemtel)
MSDS prepared by: Fred Widman
Recommended use: Hardener for KIWOBOND adhesives

2. HAZARD IDENTIFICATION OF THE PREPARATION

EMERGENCY OVERVIEW

Caution: Flammable, Toxic.

Appearance / Odor: red liquid / ester odor

Potential Health Effects: See Section 11 for more information

Likely routes of exposure: Eye and skin contact, inhalation and ingestion

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

Ingestion of this product may be irritating to the digestive system.

Potential Health Effects: Inhalation

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

Vapours may cause drowsiness and dizziness

F	Flammable liquid
Xi	Irritant
11	Highly Flammable
36	Irritating to eyes
42	May cause sensitization by inhalation
66	Repeated exposure may cause skin dryness and cracking

Target Organs: Not known

Toluene-2,4-diisocyanate is listed by IARC as a Group 2B carcinogen, there is inadequate evidence that it is a human carcinogen, but adequate evidence exists that it is a carcinogen in test animals.

Potential Environmental Effects: See Section 12 for more information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of the below mentioned materials and non-hazardous substances

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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational exposure limit:

CAS #	Name	OSHA PEL	ACGIH TWA
141-78-6	Ethyl Acetate	Not established	400ppm
584-84-9	toluene-2, 4- diisocyanate	Ceiling – 0.02ppm	0.005ppm*

* Respiratory sensitizer, eye irritant

Engineering controls

General- not required

Local exhaust- recommended. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition for details.

Other- none

Personal Protection

Gloves- solvent impermeable recommended

Respirator- yes if local or general exhaust is not used

Eye- NIOSH approved protective goggles recommended

Protective footwear- not required

Protective clothing- not required

Other- none

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid

Color: clear, transparent

Odor: typical ester

Flash point: 30°F (-1° C)

Ignition temperature: 860°F (460° C)

Density: 1.17 g/cm³

Viscosity: 455 s

Explosion limits: 2.1 – 11.5 Vol %

Boiling point: 169°F (76° C)

Vapour density: Not known

Vapour pressure: 28 mbar

Freezing point: not applicable

pH: not applicable

Coefficient of water/ oil distribution: not known

Volatile Organic Compound (VOC) content: 333 GRAMS / LITER, 2.73 LBS / GALLON

10. STABILITY AND REACTIVITY

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

Store as a flammable liquid

Possible Harmful Reactions: None known other than flammability

11. TOXICOLOGICAL INFORMATION

Effects of acute exposure:

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COMPONENT	CAS#	LD ₅₀	LC ₅₀
Ethyl Acetate	141-78-6	5620 mg/kg, oral, rat	200 gm/m ³ , inhalation, rat
Toluene-2, 4-diisocyanate	584-84-9	5,800mg/kg rat, oral	14mg / m ³ rat inhalation 4 hour

General information:

Effects of acute exposure- irritation
Repeated exposure may lead to permanent respiratory disability.
Irritancy of product- yes
Skin sensitization- possible
Respiratory sensitization- possible
Carcinogenicity- no
IARC- Toluene-2, 4-diisocyanate 2B
ACGIH- no
Reproductive toxicity-No known effect
Teratogenicity - No known effect
Embryotoxicity – No known effect
Mutagenicity – No known effect
Name of synergistic products/effects - none known

12. ECOLOGICAL INFORMATION

This preparation has been classified by the conventional method (calculating procedure) of EG directive 1999/45/EG and according to its ecotoxic properties, -*001(see Sections 2 and 15 for detailed information).
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 a 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: 1866
Resin solution, flammable
(vapor pressure 110 kPa maximum @ 50°C)

Packaging group: II

IMDG: Class: 3
EMS: FE, S-E
UN: 1866
Resin solution

Marine pollutant: n.a.
Packaging group: II

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15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR and is classified as a D2A hazardous material.

All ingredients are listed on the TSCA registry.

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to the proposition.

Labeling

F Highly flammable
Xi Irritant
contains toluene-2,4-diisocyanate

R-phrases:

11 Highly flammable.
36 Irritating to eyes.
42 May cause sensitization by inhalation.
66 Repeated exposure may cause skin dryness or cracking.

S-phrases:

16 Keep away from sources of ignition - No smoking.
23 Do not breathe gas/fumes/vapour/spray.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
28 After contact with skin, wash immediately with plenty of water.

Special labeling :

91 Contains isocyanates. See information supplied by the manufacturer

Special labeling:

n.a

National Regulation for Germany:

Water pollution class: 2

Ingredient	TSCA	EC	--Canada--	
			DSL	NDSL
Ethyl Acetate (141-78-6)	Yes	Yes	Yes	No
Toluene-2,4-diisocyanate (584-84-9)	Yes	Yes	Yes	No

Ingredient	-SARA 302-		SARA 313	-RCRA-	CERCLA -	TSCA
	RQ	TPQ	List	RQ	261.33	8(d)
Ethyl Acetate	No	No	No	U112	5,000	No
Toluene-2,4-diisocyanate	100	500	Yes	No	100	No

16. OTHER INFORMATION

HMIS: Health 2, Flammability 2, Reactivity 0

Text of risk phrases mentioned in Section 2:

F Flammable liquid
Xi Irritant
11 Highly Flammable
36 Irritating to eyes
66 Repeated exposure may cause skin dryness and cracking
67 Vapors may cause drowsiness and dizziness

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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.

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