

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product Code: 20758
Product Name: KIWODUR 2000 COLOR
Company: KISSEL + WOLF GmbH
In den Ziegelwiesen 6
D-69168 Wiesloch

Phone of the company: +49 6222 578-0
Fax of the company : +49 6222 578-100

Recommended use:

Hardener

2. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of the below mentioned materials and non-hazardous substances

Hazardous components:

EINECS-No	Name	Hazard & content	
CAS-No.	R-phrases		
205-500-4	ethyl acetate		
141-78-6	11-36-66-67	Xi,F	50 - 100
	diphenylmethane-4,4'-diisocyanate, isomers and homologues,		
9016-87-9	mixture with CAS 101-68-8		
	20-36/37/38-42	Xn	25 - 50

Additional information:

For full text of the risk phrases see chapter 16.

3. HAZARD IDENTIFICATION OF THE PREPARATION

F Highly flammable
Xn Harmful

11 Highly flammable.
20 Harmful by inhalation.
36/37/38 Irritating to eyes, respiratory system and skin.
42 May cause sensitisation by inhalation.

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, do 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

Extinguishing media: foam, dry powder, carbon dioxide
In case of large-scaled fires: water-spray

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:

EINECS-No.	Name	MAK	
205-500-4	ethyl acetate	MAK	400 ppm
	diphenylmethane-4,4'-diisocyanate, isomers and homologues, mixture with CAS 101-68-8	MAK	0 ppm

Personal Protection

Protective gloves
Protective goggles recommended
Respiratory filter (at increased concentrations)

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid
Colour: depending on coloration
Odour : typical

Flash point	:	-4 °C
Ignition temperature	:	460 °C
Density	:	1.03 g/cm ³
Viscosity	:	10 s 4 mm
Explosion limits	:	2.1 - 11.5 Vol. %
Boiling point	:	76 °C
Vapour pressure	:	60 mbar

10. STABILITY AND REACTIVITY

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

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. Based on the properties of isocyanates and considering toxicological data of similar preparations, this product may cause acute irritation and/or sensitization of the respiratory system, and therefore an asthmatic condition, wheeziness and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to concentrations even below the OEL. Repeated exposure may lead to permanent respiratory disability.

General information:

The preparation has been estimated by conventional method (EG directive 1999/45/EG) and is classified according to its toxicological properties (see chapters 2 and 15).

12. ECOLOGICAL INFORMATION

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

The preparation has been estimated by conventional method (calculating procedure) of EG directive 1999/45/EG) and is classified as non-hazardous for the environment.

13. WASTE DISPOSAL INFORMATION

According to European Waste Code Regulations, the waste code is to specify branch and process.

Recommendation : 080402

Empty container : scrap metal recycling or re-conditioning

Soiled container : (treatment like product itself)

14. TRANSPORT INFORMATION

ADR/RID: Class: 3

Tremcard: 3

UN number: 1866

Resin solution, flammable

SONDERVORSCHRIFT 640D

Packaging group: II

IMDG: Class: 3

EMS: F-E, S-E

UN number: 1866

RESIN SOLUTION

Marine pollutant: n.a.

Packaging group: II

15. REGULATORY INFORMATION

Labelling (according to 91/155/EEC):

F Highly flammable

Xn Harmful

contains:

diphenylmethane-4,4'-diisocyanate, isomers and homologues, mixture with CAS 101-68-8

R-phrases:

11 Highly flammable.

20 Harmful by inhalation.

36/37/38 Irritating to eyes, respiratory system and skin.

42 May cause sensitisation by inhalation.

S-phrases:

16 Keep away from sources of ignition - No smoking.

23 Do not breathe gas/fumes/vapour/spray.

24 Avoid contact with skin.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Special labelling :

91 Contains isocyanates. See information supplied by the manufacturer.

National Regulation for Germany

Water pollution class: 1

16. OTHER INFORMATION

Text of risk phrases mentioned in chapter 2:

Material Safety Data Sheet (according to 91/155/EEC)

Product: **20758**

KIWODUR 2000 COLOR

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- 11 Highly flammable.
- 36 Irritating to eyes.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.
- 20 Harmful by inhalation.
- 36/37/38 Irritating to eyes, respiratory system and skin.
- 42 May cause sensitisation by inhalation.

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.