



Material Safety Data Sheet according to 91/155/EEC - ISO 11014-1

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Pattex Kraftkleber Classic

SDS no. : 43198

V001.9

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1. Identification of the substance/preparation and of the company/undertaking

Trade name:

Pattex Kraftkleber Classic

Intended use:

Contact adhesive

Company name:

Henkel KGaA

Henkelstr. 67

40191 Düsseldorf

Phone: +492117970

Emergency information:

National Poisons Information Service, United Kingdom : Tel (emergency) : +44.121.507.55.88

2. Composition / information on ingredients

General chemical description:

Adhesive solution

Base substances of preparation:

Polychloroprene

Resin

in a mixture of organic solvents

Declaration of ingredients:

25 -	30 %	Ethyl acetate
		EINECS 205-500-4
		CAS 141-78-6
		Symbol F, Xi
		R-phrases R11, R36, R66, R67
25 -	30 %	Cyclohexane
		EINECS 203-806-2
		CAS 110-82-7
		Symbol F, Xn, N
		R-phrases R11, R38, R65, R67, R50/53
15 -	20 %	Naphtha, hydrotreated light, <0,1% benzene
		EINECS 265-151-9
		CAS 64742-49-0
		Symbol F, Xn, N
		R-phrases R11, R38, R51/53, R65, R67



< 2,5 %	Zinc oxide	
	EINECS	215-222-5
	CAS	1314-13-2
	Symbol	N
< 2,5 %	n-Hexane	
	EINECS	203-777-6
	CAS	110-54-3
	Symbol	F, Xn, N
0,1 -	< 1 % Colophony	
	EINECS	232-475-7
	CAS	8050-09-7
	Symbol	Xi
		R-phrases R43

3. Hazards identification

The product is classified as hazardous within the meaning of the valid (EU) preparation guideline.

F - Highly flammable

Xi - Irritant

N - Dangerous for the environment

R11 Highly flammable.

R36/38 Irritating to eyes and skin.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R67 Vapours may cause drowsiness and dizziness.

Pregnant women should absolutely avoid breathe in and skin contact.

Solvents contained in the product evaporate during processing and their vapors can form explosive/highly inflammable air/vapor mixtures.

4. First-aid measures

General information:

In case of adverse health effects seek medical advice.

After inhalation:

Move to fresh air.

After skin contact:

Clean affected skin area carefully with a cloth soaked with pure benzene, then wash with running water and mild soap, finally skin care.

After eye contact:

Immediately flush eyes with water, put on a bandage with sterile gauze, see an oculist.

After ingestion:

Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.



5. Fire-fighting measures

Suitable extinguishing media:

Foam
extinguishing powder
carbon dioxide
water spray jet

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

Special protection equipment for fire-fighters:

Do not breathe combustion gases.
Wear protective equipment.
Wear self-contained breathing apparatus.
Wear full protective overalls.

Special hazards by the product itself:

In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO₂) can be released.
In the event of fire, hydrochloric acid gas may be formed

Additional information:

Cool endangered containers with water spray jet.

6. Accidental release measures

Personal precautions:

Keep away from sources of ignition.
Ensure adequate ventilation.
Wear protective equipment.

Environmental precautions:

Do not empty into drains / surface water / ground water.

Process for cleaning and take-up:

Remove with liquid-absorbing material (sand, peat, sawdust).
Dispose of contaminated material as waste according to item 13.

7. Handling and storage

Handling:

Ventilate working rooms thoroughly. Avoid naked flames, sparking and sources of ignition. Switch off electrical devices. Do not smoke, do not weld. Do not empty waste into waste water drains.
Also to be noted when processing larger amounts (> 1 kg): during processing and drying after adhesion, ventilate well. Avoid all sources of fire such as stoves and ovens. Switch off all electrical devices such as parabolic heaters, hot plates, storage heaters etc. in good time for them to have cooled down before commencing work.
Avoid all sparks, including those occurring at electrical switches and devices.
In the event of work covering a large area, set up the following notices at an appropriate distance: "CAUTION - DANGER OF EXPLOSION! ENTRY WITH NAKED FLAMES AND SMOKING PROHIBITED!"
Take measures to prevent the build-up of electrostatic charges.
The product is not self-igniting.

**Storage:**

- Ensure adequate ventilation.
- Keep only in the original container.
- Close the container carefully after use and store it at a good ventilated place.
- Store protected from heat influence.
- Avoid strictly temperatures below + 5 °C and above + 50 °C.
- Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

8. Exposure controls / personal protection

Components with specific control parameters for workplace:

Valid for

Great Britain

Ingredient	ppm	mg/m³	Type	Category	Remarks
ethyl acetate					Listed.
ethyl acetate	200		EU - Time Weighted Average (TWA).		
ethyl acetate	400		EU - Short Term Exposure Limit (STEL):		
cyclohexane	100	350	EU - Time Weighted Average (TWA).		
cyclohexane	300	1.050	EU - Short Term Exposure Limit (STEL):		
cyclohexane					Listed.
n-hexane	20	72	EU - Time Weighted Average (TWA).		
n-hexane					Listed.
zinc oxide		5	EU - Time Weighted Average (TWA).		
zinc oxide		10	EU - Short Term Exposure Limit (STEL):		
zinc oxide					Listed.
zinc oxide		4	EU - Time Weighted Average (TWA).		
zinc oxide		10	EU - Time Weighted Average (TWA).		

Additional information for system design:

Ensure good ventilation/extraction.

Respiratory protection:

For short-term or slight exposure, use a respiratory mask with filter, for intensive or long-term exposure wear full respiratory protection apparatus
Filter A1-A3 (brown)

Hand protection:

For shorttime contact (e.g. as protection against splashes) protective gloves made from nitrile rubber are recommended according to EN 374.

Manufacturer e.g. German company KCL, type Camatril Velours 730.

material thickness > 0.4 mm

Perforation time > 120 minutes

In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, product compatibility, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. The information provided by the manufacturers and given in the relevant trade association regulations for industrial safety must always be observed. We recommend that a hand care plan is drawn up in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.



Eye protection:

Goggles which can be tightly sealed.

Body protection:

suitable protective clothing

General protection and hygiene measures:

Avoid skin-contact.

Do not eat, drink or smoke while working.

When using the product avoid alcohol consumption.

Wash hands before work breaks and after finishing work.

9. Physical and chemical properties

General characteristics

Delivery state:	liquid
State:	turbid
Odor:	of solvent, typical
Color(s):	yellowish

Phys./chem. properties:

Boiling point	60 °C
Flash point	-22 °C
Vapor pressure	165 mbar
(20 °C; highest partial vapor pressure)	
Density	0,84 - 0,88 g/cm ³
(20 °C)	
Viscosity (dynamic)	2.200 - 2.500 mPas
(Brookfield; 20 °C)	
Solubility (qualitative)	insoluble
(20 °C; Solvent: water)	
Explosion limit	
lower	1,1 %(V)
upper	11,5 %(V)

10. Stability and reactivity

Conditions to avoid:

No decomposition if used according to specifications.

Materials to avoid:

None if used for intended purpose.

Dangerous decomposition products:

In the event of a fire, hydrochloric acid gas is released.



11. Toxicological information

Acute inhalative toxicity:

The toxicity of the product is due to its narcotic effect after inhalation.

In the event of protracted or repeated exposure, damage to health cannot be excluded.

Skin irritation:

Prolonged or repeated skin contact can lead to skin degreasing and hence to skin irritation.

Eye irritation:

Primary eye irritation: irritating

12. Ecological information

General ecological information:

Do not empty into drains, soil or bodies of water.

The product contains organic solvents which are insoluble in water. According to the requirements of the ATV regulations for the discharge of wastewater from commercial and industrial plant, organic solvents which are immiscible with water can only be discharged to an extent which corresponds to their solubility in water. The local discharge regulations take precedence.

The product contains hydrocarbons. According to the requirements of the ATV regulations (Worksheet 105) for the discharge of wastewater from commercial and industrial plant into a public sewage treatment plant, hydrocarbons (according to DIN 38 409 P 18) can only be discharged to a maximum of 20 mg/l. The local discharge regulations take precedence.

Ultimate biodegradation:

The total of the organic components contained in the product achieve values below 60% BOD/COD or CO₂ liberation, or below 70% DOC reduction in tests for ease of degradability. Threshold values for 'readily degradable' (e.g. to OECD method 301) are not reached.

13. Disposal considerations

Product disposal:

After being soaked up by absorbent material.

Waste incineration with the approval of the responsible local authority.

The valid EEC waste code numbers are not product-related but are largely source-related. The manufacturer is therefore unable to specify EEC waste codes for the articles or products used in the various sectors. These can be requested from the manufacturer.

Disposal of uncleaned packages:

Only well-emptied containers with dried or cured product residues and without solvent vapors can be recycled.



14. Transport information

Road transport ADR:

Class:	3
Packaging group:	III
Classification code:	F1
Hazard ident. number:	33
UN no.:	1133
Label:	3
Proper shipping name:	ADHESIVES
Additional information:	Special provision 640H

Railroad transport RID:

Class:	3
Packaging group:	III
Classification code:	F1
Hazard ident. number:	33
UN no.:	1133
Label:	3
Proper shipping name:	ADHESIVES
Additional information:	Special provision 640H

Inland water transport ADN:

Class:	3
Packaging group:	III
Classification code:	F1
Hazard ident. number:	33
UN no.:	1133
Label:	3
Proper shipping name:	ADHESIVES
Additional information:	Special provision 640H

Marine transport IMDG:

Class:	3
Packaging group:	III
EmS:	F-E ,S-D
Seawater pollutant:	-
UN no.:	1133
Label:	3
Proper shipping name:	ADHESIVES

Air transport IATA:

Class:	3
Packaging group:	III
Packaging instructions (cargo):	310
Packaging instructions (passenger):	309
UN no.:	1133
Label:	3
Proper shipping name:	Adhesives



15. Regulations - classification and identification

Symbols of danger:

- F - Highly flammable
- Xi - Irritant
- N - Dangerous for the environment

R-phrases

- R11 Highly flammable.
- R36/38 Irritating to eyes and skin.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R67 Vapours may cause drowsiness and dizziness.

S-phrases :

- S2 Keep out of the reach of children.
 - S9 Keep container in a well-ventilated place.
 - S16 Keep away from sources of ignition - No smoking.
 - S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 - S29 Do not empty into drains.
 - S46 If swallowed, seek medical advice immediately and show this container or label.
- Further advice:
- S51 Use only in well-ventilated areas.

Special declaration:

- Contains Colophony. Can produce allergical reactions.
-

16. Other information

Full text of the R-phrases indicated by codes in this safety data sheet. The labeling of the product is indicated in Section 15.

- R11 Highly flammable.
- R36 Irritating to eyes.
- R38 Irritating to skin.
- R43 May cause sensitization by skin contact.
- R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R62 Possible risk of impaired fertility.
- R65 Harmful: may cause lung damage if swallowed.
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.

Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.