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Henkel KGaA

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

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SDS no. : 43333
V001.4

Pattex transparent

Revision: 18.08.2003
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1. Identification of the substance/preparation and of the company/undertaking

Trade name:

Pattex transparent

Intended use:

Contact: adhesive

Company name:

Henkel KGaA

Henkelstr. 67

40191 Düsseldorf

Phone: +492117970

Fax-no.:

Emergency information:

The Henkel information service also provides an around-the-clock telephone service on phone no. ++49-(0)211-797-3350 for exceptional cases.

The product is notified at the "Information Centers for Cases of Poisoning in Germany". These centers provide information by telephone day and night in poisoning cases. Central emergency phone number: ++49 (0) 30 19240

Information office (content SDS):

UA Safety, Health, Environment TEL: +49-(0)211-797-3044 FAX: +49-(0)211-798-8520 EMAIL: AAT-SHEQ@henkel.com

2. Composition / information on ingredients

General chemical description:

Adhesive solution

Base substances of preparation:

Polyurethane

in a mixture of organic solvents

Declaration of ingredients:

>= 60 -	<= 70 %	Acetone	
		EINECS	200-662-2
		CAS	67-64-1
		Symbol	F, Xi
		R-phrases	R11, R36, R66, R67



>= 10 - <= 15 %	Butyl acetate	
	EINECS	204-658-1
	CAS	123-86-4
	R-phrases	R10, R66, R67

3. Possible product risks

F - Highly flammable
Xi - Irritant
R11 Highly flammable.
R36 Irritating to eyes.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.
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:

Fresh air.

After skin contact:

Wipe off affected skin area immediately with a soft cloth and then wash with running water and mild soap; apply skin care product.

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:

Wear self-contained breathing apparatus.

Special hazards by the product itself:

None known

Additional information:

In case of fire, cool endangered containers with water spray.
Do not breathe combustion gases.



6. Accidental release measures

Personal precautions:

- 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).
- Disposal 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!"
- Avoid naked flames, sparking and sources of ignition.
- Take measures to prevent the build-up of electrostatic charges.

Storage:

- Ensure adequate ventilation.
- 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.
- Keep only in the original container.
- 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
Germany

Ingredient	ppm	mg/m ³	Type	Category	Remarks
acetone; propan-2-one; propanone	500	1.200	MAK:	1.5	
acetone; propan-2-one; propanone	500	1.210	Time Weighted Average (TWA).		
n-butyl acetate	100	480	MAK:	=1=	If in compliance with the MAK and BAT values, then there should be no risk to the fetus.

Additional information for system design:

- Draw off vapours directly at the point of generation and exit. In the case of regular work, provide bench-mounted extraction equipment.

Respiratory protection:

- When processing large amounts.
- Suitable breathing mask when there is inadequate ventilation.



Hand protection:

For shorttime contact (e.g. as protection against splashes) protective gloves made from polychloroprene with inner layer of natural rubber (material thickness >0.6 mm, break through time > 10 min) are recommended according to EN 374.

In the case of longer contact protective gloves made from butyl rubber (material thickness > 0,7 mm, break through time > 60 min) are recommended according to EN 374.

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:

Do not breathe solvent vapors.

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:	clear
Odor:	typical, of solvent
Color(s):	colorless

Phys./chem. properties:

Boiling point	56 °C
Flash point:	-22 °C
Vapor pressure (20 °C; highest partial vapor pressure)	240 mbar
Density (20 °C)	0,87 g/cm ³
Viscosity (dynamic) (20 °C)	3.000 - 3.500 mpa.s
Solubility (qualitative) (20 °C; Solvent: water)	partially soluble
Explosion limit	
lower	1,4 %(V)
upper	13,0 %(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:

No decomposition if used according to specifications.

11. Toxicological information

General toxicological information:

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

Acute inhalative toxicity:

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

12. Ecological information

General ecological information:

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.

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
Propper 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
Propper 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
Propper shipping name:	ADHESIVES
Additional information:	Special provision 640H

Marine transport IMDG:

Class:	3
Packaging group:	III
EmS:	3-05
Seawater pollutant:	
UN no.:	1133
Label:	3
Propper shipping name:	ADHESIVES

Air transport IATA:

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



15. Regulations - classification and identification

Symbols of danger:

F - Highly flammable
Xi - Irritant

Hazard trigger:

R-phrases

R11 Highly flammable.
R36 Irritating to eyes.
R66 Repeated exposure may cause skin dryness or cracking.
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.
S46 If swallowed, seek medical advice immediately and show this container or label.
Further advice:
S23 Do not breathe vapour.
S51 Use only in well-ventilated areas.

Special declaration:

National regulations/information:

WGK:	1, slightly water-endangering product. (German VwVwS of May 17, 1999)
BG regulations, rules, infos:	BG data sheet: BGI 621 Solvents BG regulation: BGV B 1 Handling hazardous substances
Storage class VCI:	3A
General remarks (DE):	R- and S-phrases are not necessary if the content of the container does not exceed 0.125 liter. (92/32/EEC)

16. Other information

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

R11 Highly flammable.
R36 Irritating to eyes.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.
R10 Flammable.

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.