



Safety Data Sheet according to (EC) No 1907/2006

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sds no. : 223080
V002.1

Pattex PL 150

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Pattex PL 150

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use:

Reaction adhesives

1.3. Details of the supplier of the safety data sheet

Henkel AG & Co. KGaA

Henkelstr. 67

40589Düsseldorf

Germany

Phone: +49 (211) 797 0

Fax-no.: +49 (211) 798 4008

ua-productsafety.de@henkel.com

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (DPD):

F - Highly flammable

R11 Highly flammable.

Dangerous for the environment

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R67 Vapours may cause drowsiness and dizziness.

2.2. Label elements

Label elements (DPD):

F - Highly flammable



Risk phrases:

R11 Highly flammable.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R67 Vapours may cause drowsiness and dizziness.

Safety phrases:

S2 Keep out of the reach of children.

S16 Keep away from sources of ignition - No smoking.

S29 Do not empty into drains.

S46 If swallowed, seek medical advice immediately and show this container or label.

S51 Use only in well-ventilated areas.

2.3. Other hazards

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

Pregnant women should absolutely avoid inhalation and skin contact.

SECTION 3: Composition/information on ingredients

General chemical description:

1-Component assembly adhesive

Base substances of preparation:

Organic solvent

Inorganic fillers

Styrene-butadiene copolymer

Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Hydrocarbon aliphatic C4-11 < 0,1% benzene 64742-49-0	265-151-9	< 15 %	Aspiration hazard 1 H304 Skin irritation 2 H315 Specific target organ toxicity - single exposure 3 H336 Flammable liquids 2 H225 Chronic hazards to the aquatic environment 2 H411 Flammable liquids 2
Ethyl acetate 141-78-6	205-500-4 01-2119475103-46	< 15 %	H225 Specific target organ toxicity - single exposure 3 H336 Serious eye irritation 2 H319 Flammable liquids 2 H225
n-Hexane 110-54-3	203-777-6	< 0,5 %	Toxic to reproduction 2 H361f Aspiration hazard 1 H304 Specific target organ toxicity - repeated exposure 2 H373 Skin irritation 2 H315 Specific target organ toxicity - single exposure 3 H336 Chronic hazards to the aquatic environment 2 H411

For full text of the H - statements and other abbreviations see section 16 "Other information".
Substances without classification may have community workplace exposure limits available.

Declaration of ingredients according to DPD (EC) No 1999/45:

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Hydrocarbon aliphatic C4-11 < 0,1% benzene 64742-49-0	265-151-9	< 15 %	F - Highly flammable; R11 Xi - Irritant; R38 Xn - Harmful; R65 R67 N - Dangerous for the environment; R51/53
Ethyl acetate 141-78-6	205-500-4 01-2119475103-46	< 15 %	F - Highly flammable; R11 R66 Xi - Irritant; R36 R67 F - Highly flammable; R11
n-Hexane 110-54-3	203-777-6	< 0,5 %	Toxic for reproduction - category 3.; R62 Xi - Irritant; R38 R67 Xn - Harmful; R65, R48/20 N - Dangerous for the environment; R51/53

For full text of the R-Phrases indicated by codes see section 16 'Other Information'.
Substances without classification may have community workplace exposure limits available.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of adverse health effects seek medical advice.

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.

Eye contact:

Rinse immediately with plenty of running water, seek medical advice if necessary.

Ingestion:

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

4.2. Most important symptoms and effects, both acute and delayed

Vapors may cause drowsiness and dizziness.

4.3. Indication of any immediate medical attention and special treatment needed

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

carbon dioxide, foam, powder, water spray jet, fine water spray

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO₂) can be released.

5.3. Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective equipment.

Additional information:

Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment.

Danger of slipping on spilled product.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Remove mechanically.

Dispose of contaminated material as waste according to Chapter 13.

6.4. Reference to other sections

See advice in chapter 8

SECTION 7: Handling and storage

7.1. Precautions for safe 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.

Hygiene measures:

Do not eat, drink or smoke while working.
Wash hands before work breaks and after finishing work.

7.2. Conditions for safe storage, including any incompatibilities

Ensure adequate ventilation.
Keep only in the original container.
Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

7.3. Specific end use(s)

Reaction adhesives

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Valid for
Germany

Ingredient	ppm	mg/m ³	Type	Category	Remarks
Ethyl acetate 141-78-6			Short Term Exposure Classification:	Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages. 2	TRGS 900
Ethyl acetate 141-78-6	400	1.500	AGW:	If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). Category II: substances with a resorptive effect.	TRGS 900
n-Hexane 110-54-3			Short Term Exposure Classification:	8	TRGS 900
n-Hexane 110-54-3	50	180	AGW:	If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). Indicative	TRGS 900
N-HEXANE 110-54-3	20	72	Time Weighted Average (TWA):		ECTLV

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Exposure Compartment period	Value				Remarks
		mg/l	ppm	mg/kg	others	
Ethyl acetate 141-78-6	STP				650 mg/L	
Ethyl acetate 141-78-6	aqua (freshwater)				0,26 mg/L	
Ethyl acetate 141-78-6	aqua (marine water)				0,026 mg/L	
Ethyl acetate 141-78-6	sediment (freshwater)			0,34 mg/kg		
Ethyl acetate 141-78-6	soil			0,22 mg/kg		
Ethyl acetate 141-78-6				0,034 mg/kg		
Ethyl acetate 141-78-6	sediment (marine water)					

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Ethyl acetate 141-78-6	worker	inhalation	Acute/short term exposure - systemic effects		1468 mg/m3	
Ethyl acetate 141-78-6	worker	inhalation	Acute/short term exposure - local effects		1468 mg/m3	
Ethyl acetate 141-78-6	worker	dermal	Long term exposure - systemic effects		63 mg/kg bw/day	
Ethyl acetate 141-78-6	worker	inhalation	Long term exposure - systemic effects		734 mg/m3	
Ethyl acetate 141-78-6	worker	inhalation	Long term exposure - local effects		734 mg/m3	
Ethyl acetate 141-78-6	general population	inhalation	Acute/short term exposure - systemic effects		734 mg/m3	
Ethyl acetate 141-78-6	general population	inhalation	Acute/short term exposure - local effects		734 mg/m3	
Ethyl acetate 141-78-6	general population	dermal	Long term exposure - systemic effects		37 mg/kg bw/day	
Ethyl acetate 141-78-6	general population	inhalation	Long term exposure - local effects		367 mg/m3	
Ethyl acetate 141-78-6	general population	inhalation	Long term exposure - systemic effects		367 mg/m3	
Ethyl acetate 141-78-6	general population	oral			4,5 mg/kg bw/day	

8.2. Exposure controls:

Respiratory protection:

The product should only be used at workplaces with intensive ventilation/extraction. If intensive ventilation/extraction is not possible then self-contained independent respiratory protection should be worn.

Hand protection:

Recommended are gloves made from Nitril rubber (Material thickness >0,1 mm, Perforation time < 30s).Gloves should be replaced after each short time contact or contamination. Available at laboratory specialized trade or at pharmacies / chemist's shops.

In the case of longer contact protective gloves made from nitrile rubber are recommended according to EN 374.

material thickness > 0.4 mm

Perforation time > 10 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.

Skin protection:

Suitable protective clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearancepaste

solid
beige

Odorof solvent

pH	No data available / Not applicable
Initial boiling point	No data available / Not applicable
Flash point	No data available / Not applicable
Decomposition temperature	No data available / Not applicable
Vapour pressure	No data available / Not applicable
Density (20 °C (68 °F))	1,23 - 1,29 g/cm3
Bulk density	No data available / Not applicable
Viscosity	No data available / Not applicable
Viscosity (kinematic)	No data available / Not applicable
Explosive properties	No data available / Not applicable
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	partially soluble
Solidification temperature	
Melting point	No data available / Not applicable
Flammability	No data available / Not applicable
Auto-ignition temperature	No data available / Not applicable
Explosive limits	No data available / Not applicable
lower	
upper	
Partition coefficient: n-octanol/water	2 %(V)
Evaporation rate	12,8 %(V)
Vapor density	No data available / Not applicable
Oxidising properties	No data available / Not applicable
	No data available / Not applicable

9.2. Other information

No data available / Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

Reaction with acids: production of heat and carbon dioxide.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

None if used for intended purpose.

10.5. Incompatible materials

None if used properly.

10.6. Hazardous decomposition products

None known

SECTION 11: Toxicological information

11.1. Information on toxicological effects

General toxicological information:

The preparation is classified based on the conventional method outlined in Article 6(1)(a) of Directive 1999/45/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

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:

Primary skin irritation: slightly irritating, does not require labeling

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Ethyl acetate 141-78-6	LD50 LC50 LD50	6.100 mg/kg 200 mg/l > 18.000 mg/kg	oral inhalation dermal	1h	rat rat rabbit	

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Ethyl acetate 141-78-6	not irritating	24 h	rabbit	

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Ethyl acetate 141-78-6	slightly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Ethyl acetate 141-78-6	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time with and without	Species	Method
Ethyl acetate 141-78-6	negative	bacterial reverse mutation assay (e.g. Ames test) inhalation			
n-Hexane 110-54-3	negative			rat	

Repeated dose toxicity

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Ethyl acetate 141-78-6	NOAEL=900 mg/kg	oral: gavage	90 d daily	rat	
Ethyl acetate 141-78-6	NOAEL=0,002 mg/l	inhalation	90 d continuous	rat	

SECTION 12: Ecological information

General ecological information:

The preparation is classified based on the conventional method outlined in Article 6(1)(a) of Directive 1999/45/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

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

Harmful to aquatic organisms.

May cause long-term adverse effects in the aquatic environment.

12.1. Toxicity

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Hydrocarbon aliphatic C4-11 < 0,1% benzene 64742-49-0	LC50	1 - 10 mg/l	Fish			OECD Guideline 203 (Fish, Acute Toxicity Test)
Hydrocarbon aliphatic C4-11 < 0,1% benzene 64742-49-0	EC50	3 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Hydrocarbon aliphatic C4-11 < 0,1% benzene 64742-49-0	EC50	1 - 10 mg/l	Algae			OECD Guideline 201 (Alga, Growth Inhibition Test)
Ethyl acetate 141-78-6	LC50	270 mg/l	Fish	48 h	Leuciscus idus melanotus	
Ethyl acetate 141-78-6	EC50	164 mg/l	Daphnia	48 h	Daphnia cucullata	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Ethyl acetate 141-78-6	EC50	> 2.000 mg/l	Algae	96 h	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
n-Hexane 110-54-3	LC50	1 - 10 mg/l	Fish			OECD Guideline 203 (Fish, Acute Toxicity Test)
n-Hexane 110-54-3	EC50	2,1 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
n-Hexane 110-54-3	EC50	1 - 10 mg/l	Algae			OECD Guideline 201 (Alga, Growth Inhibition Test)

12.2. Persistence and degradability

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Ethyl acetate 141-78-6	readily biodegradable	aerobic	100 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
n-Hexane 110-54-3	readily biodegradable	aerobic	> 60 %	

12.3. Bioaccumulative potential / 12.4. Mobility in soil

Hazardous components CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Ethyl acetate 141-78-6	0,6					OECD Guideline 107 (Partition Coefficient (n- octanol / water), Shake Flask Method)
n-Hexane 110-54-3	4					

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Dispose of waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages:

Use packages for recycling only when totally empty.

Waste code

08 04 09 waste adhesives and sealants containing organic solvents and other dangerous substances

SECTION 14: Transport information

Road transport ADR:

Class:	4.1
Packaging group:	II
Classification code:	F1
Hazard ident. number:	40
UN no.:	3175
Label:	4.1
Technical name:	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (petroleum)
Tunnelcode:	(E)

Railroad transport RID:

Class:	4.1
Packaging group:	II
Classification code:	F1
Hazard ident. number:	40
UN no.:	3175
Label:	4.1
Technical name:	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (petroleum)
Tunnelcode:	

Inland water transport ADN:

Class:	4.1
Packaging group:	II
Classification code:	F1
Hazard ident. number:	
UN no.:	3175
Label:	4.1
Technical name:	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (petroleum)

Marine transport IMDG:

Class:	4.1
Packaging group:	II
UN no.:	3175
Label:	4.1
EmS:	F-A ,S-I
Seawater pollutant:	-
Proper shipping name:	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (petroleum)

Air transport IATA:

Class:	4.1
Packaging group:	II
Packaging instructions (passenger)	445
Packaging instructions (cargo)	448
UN no.:	3175
Label:	4.1
Proper shipping name:	Solids containing flammable liquid, n.o.s. (petroleum)

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

VOC content 13,4 %
(VOCV 814.018 VOC regulation
CH)

National regulations/information (Germany):

WGK:	1, slightly water-endangering product. (German VwVwS of May 17, 1999) Classification in conformity with the calculation method
Storage class VCI:	4.1B

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

R11 Highly flammable.
R36 Irritating to eyes.
R38 Irritating to skin.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
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.
H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H361f Suspected of damaging fertility.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

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.