



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

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Pattex Contact Adh. Premium

SDS No. : 523675
V001.1

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

1.1. Product identifier

Pattex Contact Adh. Premium

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

Intended use:

Contact adhesive

1.3. Details of the supplier of the safety data sheet

Henkel Jebal Ali FZCO

PO Box 61341 - Jebel Ali

Dubai

Utd.Arab.Emir.

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website <https://mysds.henkel.com/index.html#/appSelection> or www.henkel-adhesives.com.

1.4. Emergency telephone number

HAAD Poison and Drug Information Center UAE, TOLL FREE TEL. NUMBER 800-424

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Flammable liquids	Category 2
H225 Highly flammable liquid and vapour.	
Skin irritation	Category 2
H315 Causes skin irritation.	
Serious eye irritation	Category 2
H319 Causes serious eye irritation.	
Skin sensitizer	Category 1
H317 May cause an allergic skin reaction.	
Toxic to reproduction	Category 2
H361f Suspected of damaging fertility.	
Specific target organ toxicity - single exposure	Category 3
H336 May cause drowsiness or dizziness.	
Target organ: Central nervous system	
Specific target organ toxicity - repeated exposure	Category 2
H373 May cause damage to organs through prolonged or repeated exposure.	
Chronic hazards to the aquatic environment	Category 2
H411 Toxic to aquatic life with long lasting effects.	

2.2. Label elements

Label elements (CLP):

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Hazard pictogram:



Contains

Phenol-formaldehyde polymer

Ethyl acetate

n-Hexane

Signal word:

Danger

Hazard statement:

H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
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.

Precautionary statement:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe mist/vapours.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/eye protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P501 Dispose of contents/container in accordance with national regulation.

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.

Following substances are present in a concentration \geq the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration \geq the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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

Hazardous components CAS-No.	EC Number	content	Classification
Ethyl acetate 141-78-6	205-500-4	20- 40 %	Flam. Liq. 2 H225 STOT SE 3 H336 Eye Irrit. 2 H319
n-Hexane 110-54-3	203-777-6	20- 40 %	Flam. Liq. 2 H225 Repr. 2 H361f Asp. Tox. 1 H304 STOT RE 2 H373 Skin Irrit. 2 H315 STOT SE 3 H336 Aquatic Chronic 2 H411
acetone 67-64-1	200-662-2	10- < 20 %	Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336
Phenol-formaldehyde polymer 9003-35-4	500-005-2	5- < 10 %	Eye Irrit. 2 H319 STOT SE 3 H335 Skin Sens. 1 H317
Bis(2,4-di-tert-butylphenyl)pentaerythritol diphosphite 26741-53-7	247-952-5	1- < 2,5 %	Aquatic Chronic 1 H410

**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.**

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. Skin care. Remove contaminated clothes immediately.

Eye contact:

Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remain (intensive smarting, sensitivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

Ingestion:

Rinse mouth, do not induce vomiting, consult a doctor.

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

SKIN: Redness, inflammation.

Causes serious eye irritation.

May cause an allergic skin reaction.

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

Ensure adequate ventilation.

Danger of slipping on spilled product.

Avoid contact with skin and eyes.

Wear protective equipment.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Remove with liquid-absorbing material (sand, peat, sawdust).

Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections

See advice in section 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.

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.

Avoid skin and eye contact.

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Hygiene measures:

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

7.2. Conditions for safe storage, including any incompatibilities

- Ensure good ventilation/extraction.
- Store in tightly closed containers, cool and dry.
- Do not store or use near heat, spark, open flame or other sources of ignition.
- Wash thoroughly after handling.
- Store in a cool, dry place.
- Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

7.3. Specific end use(s)

- Contact adhesive

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for
Utd.Arab.Emir.

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Ethyl acetate 141-78-6 [ETHYL ACETATE]	400	1.440	Time Weighted Average (TWA):		AD TLV
Ethyl acetate 141-78-6 [ETHYL ACETATE]	400		Time Weighted Average (TWA):		DB OEL
Ethyl acetate 141-78-6 [ETHYL ACETATE]	400	1.440	Time Weighted Average (TWA):		GCC TLV
Ethyl acetate 141-78-6 [ETHYL ACETATE]	400	1.440	Time Weighted Average (TWA):		UAE OEL
n-Hexane 110-54-3 [N-HEXANE]			Skin designation:	Can be absorbed through the skin.	AD TLV
n-Hexane 110-54-3 [N-HEXANE]	50	176	Time Weighted Average (TWA):		AD TLV
n-Hexane 110-54-3 [N-HEXANE]	20	72	Time Weighted Average (TWA):		DB OEL
n-Hexane 110-54-3 [N-HEXANE]	50	176	Time Weighted Average (TWA):		GCC TLV
n-Hexane 110-54-3 [N-HEXANE]	50	176	Time Weighted Average (TWA):		UAE OEL
Acetone 67-64-1 [ACETONE]	500	1.188	Time Weighted Average (TWA):		AD TLV
Acetone 67-64-1 [ACETONE]	750	1.782	Short Term Exposure Limit (STEL):		AD TLV
Acetone 67-64-1 [ACETONE]	1.500	3.620	Short Term Exposure Limit (STEL):		DB OEL
Acetone 67-64-1 [ACETONE]	500	1.210	Time Weighted Average (TWA):		DB OEL
Acetone 67-64-1 [ACETONE]	1.000	2.380	Short Term Exposure Limit (STEL):		GCC TLV
Acetone 67-64-1 [ACETONE]	750	1.780	Time Weighted Average (TWA):		GCC TLV
Acetone 67-64-1 [ACETONE]	750	1.780	Time Weighted Average (TWA):		UAE OEL
Acetone 67-64-1 [ACETONE]	1.000	2.380	Short Term Exposure Limit (STEL):		UAE OEL

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Occupational Exposure Limits

Valid for
Bharain

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Ethyl acetate 141-78-6 [ETHYL ACETATE]	400	1.440	Time Weighted Average (TWA):		BH TLV
Ethyl acetate 141-78-6 [ETHYL ACETATE]	400	1.440	Time Weighted Average (TWA):		GCC TLV
n-Hexane 110-54-3 [N-HEXANE]	50	176	Time Weighted Average (TWA):		BH TLV
n-Hexane 110-54-3 [N-HEXANE]	50	176	Time Weighted Average (TWA):		GCC TLV
Acetone 67-64-1 [ACETONE]	750	1.780	Time Weighted Average (TWA):		BH TLV
Acetone 67-64-1 [ACETONE]	1.000	2.380	Short Term Exposure Limit (STEL):		BH TLV
Acetone 67-64-1 [ACETONE]	1.000	2.380	Short Term Exposure Limit (STEL):		GCC TLV
Acetone 67-64-1 [ACETONE]	750	1.780	Time Weighted Average (TWA):		GCC TLV

Occupational Exposure Limits

Valid for
Egypt

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Ethyl acetate 141-78-6 [ETHYL ACETATE]	400	1.440	Time Weighted Average (TWA):		EG OEL
n-Hexane 110-54-3 [N-HEXANE]	50	176	Time Weighted Average (TWA):		EG OEL
n-Hexane 110-54-3 [N-HEXANE]			Skin designation:	Can be absorbed through the skin.	EG OEL
Acetone 67-64-1 [ACETONE]	750	1.780	Short-term Exposure Limit (STEL):		EG OEL
Acetone 67-64-1 [ACETONE]	500	1.187	Time Weighted Average (TWA):		EG OEL

Occupational Exposure Limits

Valid for
Jordan

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Ethyl acetate 141-78-6 [ETHYL ACETATE]	400	1.400	Time Weighted Average (TWA):		JO TLV
n-Hexane	50	180	Time Weighted Average		JO TLV

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110-54-3 [HEXANE (REGULAR)]			(TWA):		
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Occupational Exposure Limits

Valid for
Kuwait

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
n-Hexane 110-54-3 [N-HEXANE]	50	176	Time Weighted Average (TWA):		GCC TLV
n-Hexane 110-54-3 [HEXANE]	50	180	Time Weighted Average (TWA):		KW OEL
n-Hexane 110-54-3 [HEXANE]	1.100		Harmful Concentration for risk to health and life:		KW OEL
n-Hexane 110-54-3 [HEXANE]			Skin designation:	Can be absorbed through the skin.	KW OEL
Acetone 67-64-1 [ACETONE]	1.000	2.380	Short Term Exposure Limit (STEL):		GCC TLV
Acetone 67-64-1 [ACETONE]	750	1.780	Time Weighted Average (TWA):		GCC TLV
Acetone 67-64-1 [ACETONE]	750	1.800	Time Weighted Average (TWA):		KW OEL
Acetone 67-64-1 [ACETONE]	1.000	2.400	Short-term Exposure Limit (STEL):		KW OEL
Acetone 67-64-1 [ACETONE]	2.500		Harmful Concentration for risk to health and life:		KW OEL

Occupational Exposure Limits

Valid for
Israel

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Ethyl acetate 141-78-6 [ETHYL ACETATE]	400		Time Weighted Average (TWA):		IL OEL
n-Hexane 110-54-3 [N-HEXANE]	50		Time Weighted Average (TWA):		IL OEL
n-Hexane 110-54-3 [N-HEXANE]			Skin designation:	Danger of cutaneous absorption	IL OEL
Acetone 67-64-1 [ACETONE]	750		Short-term exposure limit (STEL):		IL OEL
Acetone 67-64-1 [ACETONE]	500		Time Weighted Average (TWA):		IL OEL

Occupational Exposure Limits

Valid for
Kenya

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Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Ethyl acetate 141-78-6 [ETHYL ACETATE]	400	1.400	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
n-Hexane 110-54-3 [N-HEXANE]	20	70	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Acetone 67-64-1 [ACETONE]	1.500	3.560	Short-term OEL-RL:		KE OEL-RL
Acetone 67-64-1 [ACETONE]	750	1.780	Time-weighted average (TWA) OEL-RL:		KE OEL-RL

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Biological Exposure Indices:

None

Ingredient [Regulated substance]	Parameters	Biological specimen	Sampling time	Conc.	Basis of biol. exposure index	Remark	Additional Information
n-Hexane 110-54-3 [N-HEXANE]	2,5-Hexanedion, without hydrolysis hexane	Creatinine in urine	Sampling time: End of shift.	5 mg/g	KW BEL		
n-Hexane 110-54-3 [N-HEXANE [ENTRY 2]]		End-exhaled air	Sampling time: End of shift.		KW BEL		
Acetone 67-64-1 [ACETONE]	acetone	Urine	Sampling time: End of shift.	100 mg/l	KW BEL		

Ingredient [Regulated substance]	Parameters	Biological specimen	Sampling time	Conc.	Basis of biol. exposure index	Remark	Additional Information
n-Hexane 110-54-3 [N-HEXANE]	2,5-Hexanedion, without hydrolysis	Urine	Sampling time: End of shift.	0,5 mg/l	IL BEI		Source of Limit value: ACGIH
Acetone 67-64-1 [ACETONE]	acetone	Urine	Sampling time: End of shift.	25 mg/l	IL BEI	Nonspecific	Source of Limit value: ACGIH

Ingredient [Regulated substance]	Parameters	Biological specimen	Sampling time	Conc.	Basis of biol. exposure index	Remark	Additional Information
n-Hexane 110-54-3 [N-HEXANE]	n-hexane	End-exhaled air			KE BEI	D: This notation indicates that the biological determinant is an indicator of exposure to the chemical, but the quantitative interpretation of the measurement is ambiguous (semi-quantitative). These biological determinants should be used as a screening test if a quantitative test is not practical or a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question.	
n-Hexane 110-54-3 [N-HEXANE]	2,5-Hexanedione	Creatinine in urine	Sampling time: End of shift.	5 mg/g	KE BEI	C: This notation indicates that the determinant	

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						is non-specific, since it is observed after exposure to some other chemicals. These non-specific tests are preferred because they are easy to use and usually offer a better correlation with exposure than specific tests. In such instances a BEI for a specific, less quantitative biological determinant is recommended as a confirmatory test.	
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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 chloroprene rubber are recommended according to EN 374.

Perforation time > 10 minutes

material thickness > 0.6 mm

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.

Protective eye equipment should conform to EN166.

Skin protection:

Suitable protective clothing

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions.

Personal protective equipment should conform to the relevant EN standard.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	liquid
Odor	yellow
Odour threshold	Solvent
	No data available / Not applicable
pH	No data available / Not applicable
Initial boiling point	Not available.
Flash point	< 20 °C (< 68 °F)
Decomposition temperature	No data available / Not applicable
Vapour pressure	No data available / Not applicable
Density	No data available / Not applicable
Bulk density	No data available / Not applicable
Viscosity ()	1.500 - 2.500 mPa.s
Viscosity (kinematic)	No data available / Not applicable
Explosive properties	No data available / Not applicable
Solubility (qualitative)	No data available / Not applicable
Solidification temperature	No data available / Not applicable
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
Partition coefficient: n-octanol/water	No data available / Not applicable
Evaporation rate	No data available / Not applicable
Vapor density	No data available / Not applicable
Oxidising properties	No data available / Not applicable

9.2. Other information

No data available / Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

None if used for intended purpose.

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

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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.

Acute oral toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Ethyl acetate 141-78-6	LD50	6.100 mg/kg	oral		rat	not specified
n-Hexane 110-54-3	LD50	16.000 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)
acetone 67-64-1	LD50	5.800 mg/kg	oral		rat	not specified
Phenol-formaldehyde polymer 9003-35-4	LD50	4.100 mg/kg	oral		rat	not specified
Bis(2,4-di-tert-butylphenyl)pentaerythritol diphosphite 26741-53-7	LD50	> 5.000 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)

Acute inhalative toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Ethyl acetate 141-78-6	LC50	200 mg/l		1 h	rat	not specified
Ethyl acetate 141-78-6	LC Lo	> 6000 ppm	Vapor	6 h	Rat	
n-Hexane 110-54-3	LC50	> 31,86 mg/l	vapour	4 h	rat	not specified
acetone 67-64-1	LC50	76 mg/l	vapour	4 h	rat	not specified

Acute dermal toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Ethyl acetate 141-78-6	LD50	> 20.000 mg/kg	dermal		rabbit	Draize Test
n-Hexane 110-54-3	LD50	> 2.000 mg/kg	dermal		rabbit	not specified
acetone 67-64-1	LD50	> 15.688 mg/kg	dermal		rabbit	Draize Test
Bis(2,4-di-tert-butylphenyl)pentaerythritol diphosphite 26741-53-7	LD50	> 2.000 mg/kg	dermal		rabbit	OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Ethyl acetate 141-78-6	slightly irritating	24 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
n-Hexane 110-54-3	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
acetone 67-64-1	not irritating		guinea pig	not specified

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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)
n-Hexane 110-54-3	not irritating		rabbit	not specified
acetone 67-64-1	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)
n-Hexane 110-54-3	not sensitising	Mouse local lymph node assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
acetone 67-64-1	not sensitising	Guinea pig maximisation test	guinea pig	not specified

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Ethyl acetate 141-78-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Ethyl acetate 141-78-6	negative	oral: gavage		hamster, Chinese	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
n-Hexane 110-54-3	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
n-Hexane 110-54-3	negative	inhalation: vapour		mouse	not specified
	negative	inhalation: vapour		rat	not specified
acetone 67-64-1	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
	negative	mammalian cell gene mutation assay	without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
acetone 67-64-1	negative	oral: drinking water		mouse	not specified

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Carcinogenicity:

Hazardous components CAS-No.	Result	Species	Sex	Exposure time Frequency of treatment	Route of application	Method
n-Hexane 110-54-3	not carcinogenic	mouse	female	2 y 6 h/d; 5 d/w	inhalation: vapour	OECD Guideline 451 (Carcinogenicity Studies)
acetone 67-64-1	not carcinogenic	mouse	female	424 d 3 times per week	dermal	not specified

Reproductive toxicity:

Hazardous substances CAS-No.	Result / Classification	Species	Exposure time	Species	Method
Ethyl acetate 141-78-6	NOAEL P = 1.500 mg/kg	other inhalation: vapour	94 d	rat	other guideline:
n-Hexane 110-54-3	NOAEL P = 9000 ppm NOAEL F1 = 3000 ppm NOAEL F2 = 3000 ppm	Two generation study inhalation: vapour	10 w	rat	OECD Guideline 416 (Two- Generation Reproduction Toxicity Study)

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 ddaily	rat	EPA OTS 795.2600 (Subchronic Oral Toxicity Test)
Ethyl acetate 141-78-6	NOAEL=1,28 mg/l	inhalation	94 dcontinuous	rat	EPA OTS 798.2450 (90-Day Inhalation Toxicity)
n-Hexane 110-54-3	NOAEL=568 mg/kg	oral: gavage	90 d5 d/w	rat	not specified
n-Hexane 110-54-3	NOAEL=500 ppm	inhalation: vapour	90 d6 h/d; 5 d/w	mouse	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
acetone 67-64-1	NOAEL=900 mg/kg	oral: drinking water	13 wdaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

SECTION 12: Ecological information

General ecological information:

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

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12.1. Toxicity

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Ethyl acetate 141-78-6	LC50	270 mg/l	Fish	48 h	Leuciscus idus melanotus	DIN 38412-15
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	NOEC	2.000 mg/l	Algae	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
	EC50	> 2.000 mg/l	Algae	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test) not specified
Ethyl acetate 141-78-6	EC10	2.900 mg/l	Bacteria	18 h		
Ethyl acetate 141-78-6	NOEC	2,4 mg/l	chronic Daphnia	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
n-Hexane 110-54-3	LC50	> 1 - 10 mg/l	Fish	96 h	not specified	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	72 h	not specified	OECD Guideline 201 (Alga, Growth Inhibition Test)
n-Hexane 110-54-3	EC50	> 1 - 10 mg/l	Bacteria	3 h	not specified	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
acetone 67-64-1	LC50	8.120 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
acetone 67-64-1	EC50	8.800 mg/l	Daphnia	48 h	Daphnia pulex	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
acetone 67-64-1	NOEC	530 mg/l	Algae	8 d	Microcystis aeruginosa	DIN 38412-09
acetone 67-64-1	EC10	1.000 mg/l	Bacteria	30 min	Pseudomonas putida	DIN 38412, part 27 (Bacterial oxygen consumption test)
acetone 67-64-1	NOEC	2.212 mg/l	chronic Daphnia	28 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Phenol-formaldehyde polymer 9003-35-4	LC50	Toxicity > Water solubility	Fish	48 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Phenol-formaldehyde polymer 9003-35-4	EC50	Toxicity > Water solubility	Daphnia	48 h	Daphnia pulex	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Phenol-formaldehyde polymer 9003-35-4	EC50	Toxicity > Water solubility	Algae	24 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Bis(2,4-di-tert- butylphenyl)pentaerythritol diphosphate 26741-53-7	LC50	Toxicity > Water solubility	Fish		Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Bis(2,4-di-tert- butylphenyl)pentaerythritol diphosphate 26741-53-7	EC50	Toxicity > Water solubility	Algae		Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)

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Bis(2,4-di-tert-butylphenyl)pentaerythritol diphosphite 26741-53-7	EC10	Toxicity > Water solubility	Algae		Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
	NOEC	0,1 mg/l	chronic Daphnia	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction 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	81 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
acetone 67-64-1	readily biodegradable	aerobic	81 - 92 %	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)
Phenol-formaldehyde polymer 9003-35-4	readily biodegradable	aerobic	> 60 %	ISO DIS 9408 (Ultimate Aerobic Biodegradability Method by Determining the Oxygen Demand in a Closed Respirometer)
Bis(2,4-di-tert-butylphenyl)pentaerythritol diphosphite 26741-53-7	not readily biodegradable.	aerobic	< 10 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

12.3. Bioaccumulative potential / 12.4. Mobility in soil

Hazardous components CAS-No.	LogPow	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				20 °C	other guideline:
acetone 67-64-1	-0,24					OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Phenol-formaldehyde polymer 9003-35-4	3,564				25 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Bis(2,4-di-tert-butylphenyl)pentaerythritol diphosphite 26741-53-7	10,9					not specified

12.5. Results of PBT and vPvB assessment

Hazardous components CAS-No.	PBT/vPvB

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Ethyl acetate 141-78-6	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
n-Hexane 110-54-3	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
acetone 67-64-1	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Phenol-formaldehyde polymer 9003-35-4	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Bis(2,4-di-tert-butylphenyl)pentaerythritol diphosphite 26741-53-7	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6. Other adverse effects

No data available.

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

080409

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SECTION 14: Transport information

14.1. UN number or ID number

ADR	1133
RID	1133
ADN	1133
IMDG	1133
IATA	1133

14.2. UN proper shipping name

ADR	ADHESIVES
RID	ADHESIVES
ADN	ADHESIVES
IMDG	ADHESIVES (Hexane)
IATA	Adhesives

14.3. Transport hazard class(es)

ADR	3
RID	3
ADN	3
IMDG	3
IATA	3

14.4. Packing group

ADR	II
RID	II
ADN	II
IMDG	II
IATA	II

14.5. Environmental hazards

ADR	Environmentally Hazardous
RID	Environmentally Hazardous
ADN	Environmentally Hazardous
IMDG	Environmentally Hazardous
IATA	not applicable

14.6. Special precautions for user

ADR	Special provision 640D Tunnelcode: (D/E)
RID	Special provision 640D
ADN	Special provision 640D
IMDG	not applicable
IATA	not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

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SECTION 15: Regulatory information

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

No information available:

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009):	Not applicable
Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):	Not applicable
Persistent organic pollutants (Regulation (EU) 2019/1021):	Not applicable

15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

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:

- H225 Highly flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H361f Suspected of damaging fertility.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H410 Very toxic to aquatic life with long lasting effects.
- 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.

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