



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

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Pattex PL 150

SDS No. : 479239
V003.0

Revision: 14.11.2023

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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:

Assembly adhesive, dispersion

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 solids	Category 1
H228 Flammable solid.	
Skin irritation	Category 2
H315 Causes skin irritation.	
Serious eye irritation	Category 2
H319 Causes serious eye irritation.	
Specific target organ toxicity - single exposure	Category 3
H336 May cause drowsiness or dizziness.	
Route of Exposure: Inhalation	
Chronic hazards to the aquatic environment	Category 3
H412 Harmful to aquatic life with long lasting effects.	

2.2. Label elements

Label elements (CLP):

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Hazard pictogram:		
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Contains

Ethyl acetate

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Signal word: Danger

Hazard statement:
H228 Flammable solid.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statement:
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.

Precautionary statement:
Prevention
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/eye protection.

Precautionary statement:
Disposal
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	10- < 20 %	Flam. Liq. 2 H225 STOT SE 3 H336 Eye Irrit. 2 H319
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 64742-49-0	927-510-4	5- < 10 %	Aquatic Chronic 2 H411 Asp. Tox. 1 H304 Skin Irrit. 2 H315 Flam. Liq. 2 H225 STOT SE 3 H336
Hydrocarbons, C6, isoalkanes, < 5% n- hexane 64742-49-0	931-254-9	1- < 5 %	Skin Irrit. 2 H315 Flam. Liq. 2 H225 Asp. Tox. 1 H304 STOT SE 3 H336 Aquatic Chronic 2 H411
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane 92128-66-0	926-605-8	1- < 5 %	Flam. Liq. 2 H225 Asp. Tox. 1 H304 STOT SE 3 H336 Aquatic Chronic 2 H411
cyclohexane 110-82-7	203-806-2	0,1- < 0,25 %	Asp. Tox. 1 H304 STOT SE 3 H336 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 Flam. Liq. 2 H225 Skin Irrit. 2 H315

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.

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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.

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

SKIN: Redness, inflammation.

Causes serious eye irritation.

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.

Avoid contact with skin and eyes.

Ensure adequate ventilation.

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 Section 13.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

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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.

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

Protect from direct sunlight.

Store protected from heat influence.

Ensure adequate ventilation.

Keep only in original container.

Temperatures between + 5 °C and + 40 °C

Do not store together with highly flammable substances (F or F+).

Do not store together with oxidants.

Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

7.3. Specific end use(s)

Assembly adhesive, dispersion

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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
Naphtha (petroleum), hydrotreated light 64742-49-0 [NAPHTHA (COAL TAR)]		400	Time Weighted Average (TWA):		AD TLV
Naphtha (petroleum), hydrotreated light 64742-49-0 [NAPHTHA (COAL TAR)]		44	Time Weighted Average (TWA):		GCC TLV
Naphtha (petroleum), hydrotreated light 64742-49-0 [NAPHTHA (COAL TAR)]		400	Time Weighted Average (TWA):		UAE OEL
Silicon dioxide 112945-52-5 [SILICA (RESPIRABLE PARTICULATE)]		3	Time Weighted Average (TWA):		AD TLV
Silicon dioxide 112945-52-5 [SILICA (INHALABLE PARTICLE)]		10	Time Weighted Average (TWA):		AD TLV
Silicon dioxide 112945-52-5 [UN-CRYSTALLIZE SILICA (GRAPHITE) (TOTAL DUST)]		10	Time Weighted Average (TWA):		DB OEL
Silicon dioxide 112945-52-5 [UN-CRYSTALLIZE SILICA (GRAPHITE) (RESPIRABLE DUST)]		2,5	Time Weighted Average (TWA):		DB OEL
Silicon dioxide 112945-52-5 [SILICA DUST (RESPIRABLE)]		3	Time Weighted Average (TWA):		DB OEL
Naphtha (petroleum), hydrotreated light 64742-49-0 [NAPHTHA (COAL TAR)]		400	Time Weighted Average (TWA):		AD TLV
Naphtha (petroleum), hydrotreated light 64742-49-0 [NAPHTHA (COAL TAR)]		44	Time Weighted Average (TWA):		GCC TLV
Naphtha (petroleum), hydrotreated light 64742-49-0 [NAPHTHA (COAL TAR)]		400	Time Weighted Average (TWA):		UAE OEL
Cyclohexane 110-82-7 [CYCLOHEXANE]	100	344	Time Weighted Average (TWA):		AD TLV
Cyclohexane 110-82-7 [CYCLOHEXANE]	100	350	Time Weighted Average (TWA):		DB OEL
Cyclohexane 110-82-7 [CYLO HEXANE]	300	1.030	Time Weighted Average (TWA):		GCC TLV
Cyclohexane 110-82-7	300	1.030	Time Weighted Average (TWA):		UAE OEL

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[CYCLOHEXANE]					
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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
Naphtha (petroleum), hydrotreated light 64742-49-0 [NAPHTHA (COAL TAR)]		44	Time Weighted Average (TWA):		BH TLV
Naphtha (petroleum), hydrotreated light 64742-49-0 [NAPHTHA (COAL TAR)]		44	Time Weighted Average (TWA):		GCC TLV
Naphtha (petroleum), hydrotreated light 64742-49-0 [NAPHTHA (COAL TAR)]		44	Time Weighted Average (TWA):		BH TLV
Naphtha (petroleum), hydrotreated light 64742-49-0 [NAPHTHA (COAL TAR)]		44	Time Weighted Average (TWA):		GCC TLV
Cyclohexane 110-82-7 [CYCLOHEXANE]	300	1.030	Time Weighted Average (TWA):		BH TLV
Cyclohexane 110-82-7 [CYCLOHEXANE]	300	1.030	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
Limestone 1317-65-3 [CALCIUM CARBONATE (INCLUDING LIMESTONE AND MARBLE), TOTAL DUST CONTAINING NO MORE THAN 1% CRYSTALLIZED SILICA AND NO ASBESTOS]		10	Time Weighted Average (TWA):		EG OEL
Ethyl acetate 141-78-6 [ETHYL ACETATE]	400	1.440	Time Weighted Average (TWA):		EG OEL
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS]			Time Weighted Average (TWA):		EG OEL
Cyclohexane 110-82-7 [CYCLOHEXANE]	300	1.030	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

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Cyclohexane 110-82-7 [CYCLOHEXANE]	300	1.015	Time Weighted Average (TWA):		JO TLV
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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
Limestone 1317-65-3 [MARBLE (CALCIUM CARBONATE), TOTAL]		10	Time Weighted Average (TWA):		KW OEL
Limestone 1317-65-3 [MARBLE (CALCIUM CARBONATE), INHALED]		5	Time Weighted Average (TWA):		KW OEL
Limestone 1317-65-3 [MARBLE (CALCIUM CARBONATE), INHALED]			Harmful Concentration for risk to health and life:	Unknown	KW OEL
Limestone 1317-65-3 [MARBLE (CALCIUM CARBONATE), TOTAL]			Harmful Concentration for risk to health and life:	Unknown	KW OEL
Naphtha (petroleum), hydrotreated light 64742-49-0 [NAPHTHA (COAL TAR)]		44	Time Weighted Average (TWA):		GCC TLV
Naphtha (petroleum), hydrotreated light 64742-49-0 [NAPHTHA (COAL TAR)]	100	400	Time Weighted Average (TWA):		KW OEL
Naphtha (petroleum), hydrotreated light 64742-49-0 [NAPHTHA (COAL TAR)]	1.000		Harmful Concentration for risk to health and life:		KW OEL
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS]		3.000	Harmful Concentration for risk to health and life:		KW OEL
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS]		6	Time Weighted Average (TWA):		KW OEL
Silicon dioxide 112945-52-5 [PARTICULATES, INHALED]			Harmful Concentration for risk to health and life:	Unknown	KW OEL
Silicon dioxide 112945-52-5 [PARTICULATES, TOTAL]		15	Time Weighted Average (TWA):		KW OEL
Silicon dioxide 112945-52-5 [PARTICULATES, INHALED]		5	Time Weighted Average (TWA):		KW OEL
Silicon dioxide 112945-52-5 [PARTICULATES, TOTAL]			Harmful Concentration for risk to health and life:	Unknown	KW OEL
Naphtha (petroleum), hydrotreated light 64742-49-0 [NAPHTHA (COAL TAR)]		44	Time Weighted Average (TWA):		GCC TLV
Naphtha (petroleum), hydrotreated light 64742-49-0 [NAPHTHA (COAL TAR)]	100	400	Time Weighted Average (TWA):		KW OEL
Naphtha (petroleum), hydrotreated light 64742-49-0 [NAPHTHA (COAL TAR)]	1.000		Harmful Concentration for risk to health and life:		KW OEL
Cyclohexane 110-82-7 [CYCLOHEXANE]	300	1.030	Time Weighted Average (TWA):		GCC TLV
Cyclohexane 110-82-7 [CYCLOHEXANE]	300	1.050	Time Weighted Average (TWA):		KW OEL

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Cyclohexane 110-82-7 [CYCLOHEXANE]	1.300		Harmful Concentration for risk to health and life:		KW OEL
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Occupational Exposure Limits

Valid for
Israel

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Limestone 1317-65-3 [Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles]		10	Time Weighted Average (TWA):		IL OEL
Limestone 1317-65-3 [Particles (insoluble or poorly soluble) not otherwise specified, respirable particles]		3	Time Weighted Average (TWA):		IL OEL
Ethyl acetate 141-78-6 [ETHYL ACETATE]	400		Time Weighted Average (TWA):		IL OEL
Silicon dioxide 112945-52-5 [Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles]		10	Time Weighted Average (TWA):		IL OEL
Silicon dioxide 112945-52-5 [Particles (insoluble or poorly soluble) not otherwise specified, respirable particles]		3	Time Weighted Average (TWA):		IL OEL
Cyclohexane 110-82-7 [CYCLOHEXANE]	100		Time Weighted Average (TWA):		IL OEL

Occupational Exposure Limits

Valid for
Kenya

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Limestone 1317-65-3 [MARBLE TOTAL INHALABLE DUST LIMESTONE TOTAL INHALABLE DUST CALCIUM CARBONATE TOTAL INHALABLE DUST]		10	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Limestone 1317-65-3 [MARBLE RESPIRABLE DUST CALCIUM CARBONATE RESPIRABLE DUST LIMESTONE RESPIRABLE DUST]		5	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Ethyl acetate 141-78-6 [ETHYL ACETATE]	400	1.400	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS TOTAL INHALABLE DUST]		6	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS RESPIRABLE DUST]		3	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Cyclohexane 110-82-7 [CYCLOHEXANE]	100	340	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Cyclohexane	300	1.030	Short-term OEL-RL:		KE OEL-RL

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110-82-7 [CYCLOHEXANE]					
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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
Cyclohexane 110-82-7 [Cyclohexane]	1,2-Cyclohexane diol, with hydrolysis	Creatinine in urine	Sampling time: End of shift at end of work week.	50 mg/g	IL BEI	Nonspecific	Source of Limit value: ACGIH

8.2. Exposure controls:

Respiratory protection:

Suitable breathing mask when there is inadequate ventilation.

Combination filter: ABEKP (EN 14387)

This recommendation should be matched to local conditions.

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.

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

paste

solid

beige

Odor

of solvent

Odour threshold

No data available / Not applicable

pH

Not applicable, Product is non-polar/aprotic.

Initial boiling point

39 °C (102.2 °F)

Flash point

Not applicable

Decomposition temperature

No data available / Not applicable

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Vapour pressure (20 °C (68 °F))	< 0,5 Pa
Density (20 °C (68 °F))	1,23 - 1,29 g/cm ³
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	No data available / Not applicable
Melting point	< -50 °C (< -58 °F)
Flammability	No data available / Not applicable
Auto-ignition temperature	No data available / Not applicable
Explosive limits	
lower	2 % (V)
upper	12,8 % (V)
Partition coefficient: n-octanol/water	No data available / Not applicable
Evaporation rate	No data available / Not applicable
Vapor density	Not applicable, Product is a solid.
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

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.

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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
Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics 64742-49-0	LD50	> 5.840 mg/kg	oral		rat	not specified
Hydrocarbons, C6, isoalkanes, < 5% n- hexane 64742-49-0	LD50	> 16.750 mg/kg	oral		rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane 92128-66-0	LD50	> 16.750 mg/kg	oral		rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
cyclohexane 110-82-7	LD50	> 5.000 mg/kg	oral		rat	equivalent or similar to 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	LC0	> 22,5 mg/l	dust/mist	6 h	rat	other guideline:
Ethyl acetate 141-78-6	LC50	> 22,5 mg/l	dust/mist	6 h	rat	other guideline:
Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics 64742-49-0	LC50	> 23,3 mg/l	vapour	4 h	rat	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics 64742-49-0	Acute toxicity estimate (ATE)	23,31 mg/l	vapour			Expert judgement
Hydrocarbons, C6, isoalkanes, < 5% n- hexane 64742-49-0	LC50	259,354 mg/l	vapour	4 h	rat	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane 92128-66-0	LC50	259,354 mg/l	vapour	4 h	rat	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
cyclohexane 110-82-7	LC50	> 32,880 mg/l	vapour	4 h	rat	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)

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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
Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics 64742-49-0	LD50	> 2.800 mg/kg	dermal		rat	other guideline:
Hydrocarbons, C6, isoalkanes, < 5% n- hexane 64742-49-0	LD50	> 3.350 mg/kg	dermal		rabbit	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane 92128-66-0	LD50	> 3.350 mg/kg	dermal		rabbit	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)
cyclohexane 110-82-7	LD50	> 2.000 mg/kg	dermal		rabbit	equivalent or similar to 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	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics 64742-49-0	irritating	4 h	rabbit	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane 92128-66-0	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
cyclohexane 110-82-7	irritating		rabbit	Weight of evidence

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)
Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics 64742-49-0	not irritating		rabbit	FDA Guideline
Hydrocarbons, C6, isoalkanes, < 5% n- hexane 64742-49-0	not irritating		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane 92128-66-0	not irritating		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)
cyclohexane 110-82-7	slightly irritating		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)

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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)
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 64742-49-0	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Hydrocarbons, C6, isoalkanes, < 5% n-hexane 64742-49-0	not sensitising	Mouse local lymph node assay (LLNA)	mouse	equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane 92128-66-0	not sensitising	Mouse local lymph node assay (LLNA)	mouse	equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
cyclohexane 110-82-7	not sensitising	Buehler test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)

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		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
	negative	in vitro mammalian chromosome aberration test	with and without		equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Ethyl acetate 141-78-6	negative	oral: gavage		hamster, Chinese	equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Hydrocarbons, C6, isoalkanes, < 5% n-hexane 64742-49-0	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Hydrocarbons, C6, isoalkanes, < 5% n-hexane 64742-49-0	negative	inhalation: vapour		rat	equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
cyclohexane 110-82-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
	negative	mammalian cell gene mutation assay	with and without		equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
cyclohexane 110-82-7	negative	inhalation: vapour		rat	equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)

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Carcinogenicity:

Hazardous components CAS-No.	Result	Species	Sex	Exposure time Frequency of treatment	Route of application	Method
Hydrocarbons, C6, isoalkanes, < 5% n- hexane 64742-49-0	not carcinogenic	rat	male/female	2 years 6 h/d, 5d/week	inhalation: vapour	equivalent or similar OECD Guideline 451 (Carcinogenicity Studies)

Reproductive toxicity:

Hazardous substances CAS-No.	Result / Classification	Species	Exposure time	Species	Method
Ethyl acetate 141-78-6	NOAEL P = 1500 ppm	other: inhalation	94 d	rat	other guideline:
cyclohexane 110-82-7	NOAEL F1 = 7000 ppm	two- generation study inhalation: vapour		rat	equivalent or similar to 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)
Hydrocarbons, C6, isoalkanes, < 5% n- hexane 64742-49-0	NOAEL=10,504 mg/l	inhalation: vapour	13 weeks6 h/d, 5 d/week	rat	equivalent or similar to OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
cyclohexane 110-82-7		inhalation: vapour	13-14 w6 h/d, 5 d/w	mouse	EPA OPPTS 870.3465 (90- Day Inhalation Toxicity)

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	220 mg/l	Fish	96 h	Pimephales promelas	other guideline:
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: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
	NOEC	2.000 mg/l	Algae	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Ethyl acetate 141-78-6	EC10	2.900 mg/l	Bacteria	18 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshe mm-Test)
Ethyl acetate 141-78-6	NOEC	2,4 mg/l	chronic Daphnia	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 64742-49-0	LL50	8,2 mg/l	Fish	96 h	Pimephales promelas	EPA-660 (Methods for Acute Toxicity Tests with Fish, Macroinvertebrates and Amphibians)
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 64742-49-0	EL50	4,5 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 64742-49-0	EL50	3,1 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
	NOELR	0,5 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 64742-49-0	NOELR	2,6 mg/l	chronic Daphnia	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Hydrocarbons, C6, isoalkanes, < 5% n-hexane 64742-49-0	LL50	18,27 mg/l	Fish	96 h	Oncorhynchus mykiss	QSAR (Quantitative Structure Activity Relationship)
	NOELR	4,089 mg/l	Fish	28 d	Oncorhynchus mykiss	QSAR (Quantitative Structure Activity Relationship)
Hydrocarbons, C6, isoalkanes, < 5% n-hexane 64742-49-0	EL50	31,9 mg/l	Daphnia	48 h	Daphnia magna	QSAR (Quantitative Structure Activity Relationship)
Hydrocarbons, C6, isoalkanes, < 5% n-hexane 64742-49-0	NOELR	3,034 mg/l	Algae	72 h	Scenedesmus capricornutum	QSAR (Quantitative Structure Activity Relationship)
	EL50	13,56 mg/l	Algae	72 h	Scenedesmus capricornutum	QSAR (Quantitative Structure Activity Relationship)
Hydrocarbons, C6, isoalkanes, < 5% n-hexane 64742-49-0	NOEC	15,81 mg/l	Bacteria	48 h	Ciliate (Tetrahymena pyriformis)	QSAR (Quantitative Structure Activity Relationship)
Hydrocarbons, C6, isoalkanes, < 5% n-hexane 64742-49-0	NOELR	7,138 mg/l	chronic Daphnia	21 d	Daphnia magna	QSAR (Quantitative Structure Activity Relationship)
Hydrocarbons, C6-C7,	LL50	12 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline

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isoalkanes, cyclics, <5% n-hexane 92128-66-0 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane 92128-66-0	EL50	3 mg/l	Daphnia	48 h	Daphnia magna	203 (Fish, Acute Toxicity Test) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane 92128-66-0	EL50	55 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
	NOEL	30 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
cyclohexane 110-82-7	LC50	4,53 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
cyclohexane 110-82-7	EC50	0,9 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
cyclohexane 110-82-7	EC50	9,317 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
	NOEC	0,95 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
cyclohexane 110-82-7	IC50	29 mg/l	Bacteria	15 h	other:	not specified

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)
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 64742-49-0	readily biodegradable	aerobic	77,05 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Hydrocarbons, C6, isoalkanes, < 5% n-hexane 64742-49-0	readily biodegradable	aerobic	98 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane 92128-66-0	readily biodegradable	aerobic	98 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
cyclohexane 110-82-7	readily biodegradable	aerobic	77 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)

12.3. Bioaccumulative potential / 12.4. Mobility in soil

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
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Ethyl acetate 141-78-6 Ethyl acetate 141-78-6	0,68	30	3 d	Leuciscus idus melanotus	22,5 °C 25 °C	other guideline: EPA OPPTS 830.7560 (Partition Coefficient, n- octanol / H ₂ O, Generator Column Method)
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 64742-49-0	4,66					EU Method A.8 (Partition Coefficient)
Hydrocarbons, C6, isoalkanes, < 5% n-hexane 64742-49-0 Hydrocarbons, C6, isoalkanes, < 5% n-hexane 64742-49-0	3,6	501		Pimephales promelas	20 °C	QSAR (Quantitative Structure Activity Relationship) other guideline:
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n- hexane 92128-66-0	3,6				20 °C	other guideline:
cyclohexane 110-82-7 cyclohexane 110-82-7	3,44	167		Pimephales promelas	25 °C	QSAR (Quantitative Structure Activity Relationship) QSAR (Quantitative Structure Activity Relationship)

12.5. Results of PBT and vPvB assessment

Hazardous components CAS-No.	PBT/vPvB
Ethyl acetate 141-78-6	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 64742-49-0	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Hydrocarbons, C6, isoalkanes, < 5% n-hexane 64742-49-0	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane 92128-66-0	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
cyclohexane 110-82-7	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	3175
RID	3175
ADN	3175
IMDG	3175
IATA	3175

14.2. UN proper shipping name

ADR	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Ethyl acetate,petroleum)
RID	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Ethyl acetate,petroleum)
ADN	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Ethyl acetate,petroleum)
IMDG	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Ethyl acetate,petroleum)
IATA	Solids containing flammable liquid, n.o.s. (Ethyl acetate,petroleum)

14.3. Transport hazard class(es)

ADR	4.1
RID	4.1
ADN	4.1
IMDG	4.1
IATA	4.1

14.4. Packing group

ADR	II
RID	II
ADN	II
IMDG	II
IATA	II

14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.6. Special precautions for user

ADR	not applicable Tunnelcode: (E)
RID	not applicable
ADN	not applicable
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.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H400 Very toxic to aquatic life.
- 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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