



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

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POLYGUARD 101

SDS No. : 558731
V003.0

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

1.1. Product identifier

POLYGUARD 101

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

Intended use:

Paints and coatings

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 www.mysds.henkel.com 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 3
H226 Flammable liquid and vapour.	
Serious eye irritation	Category 2
H319 Causes serious eye irritation.	
Specific target organ toxicity - single exposure	Category 3
H335 May cause respiratory irritation.	
Target organ: respiratory tract irritation	
Specific target organ toxicity - single exposure	Category 3
H336 May cause drowsiness or dizziness.	
Target organ: Central nervous system	
Chronic hazards to the aquatic environment	Category 2
H411 Toxic to aquatic life with long lasting effects.	

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Contains

Solvent naphtha (petroleum), light arom., <0.1% Benzene

Signal word:

Danger

Hazard statement:

H226 Flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H411 Toxic to aquatic life with long lasting effects.

Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

**Precautionary statement:
 Prevention**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
 No smoking.
 P261 Avoid breathing mist/vapours.
 P271 Use only outdoors or in a well-ventilated area.
 P273 Avoid release to the environment.
 P280 Wear eye protection.

**Precautionary statement:
 Response**

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.

**Precautionary statement:
 Storage**

P405 Store locked up.

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

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

Hazardous components CAS-No. EC Number REACH-Reg. No.	Concentration	Classification	Specific Conc. Limits, M-factors and ATEs	Add. Information
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6 01-2119455851-35	25- < 40 %	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335 STOT SE 3, H336 Aquatic Chronic 2, H411		
Ethyl acetate 141-78-6 205-500-4 01-2119475103-46	10- < 20 %	Flam. Liq. 2, H225 STOT SE 3, H336 Eye Irrit. 2, H319		EU OEL

If no ATE values are displayed, please refer to LD/LC50 values in Section 11.
For full text of the H - statements and other abbreviations see section 16 "Other information".

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.

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

Causes serious eye irritation.

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

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.
Ensure adequate ventilation.
Avoid contact with skin and eyes.

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.

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

Storage at 20 to 30°C is recommended.
Keep away from sources of ignition.
Keep away from heat and direct sunlight.
Keep only in original container.
Keep container in a well ventilated place.
Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

7.3. Specific end use(s)

Paints and coatings

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	1.440	Time Weighted Average (TWA):		GCC TLV
Ethyl acetate 141-78-6 [ETHYL ACETATE]	400	1.440	Time Weighted Average (TWA):		UAE OEL
Ethyl acetate 141-78-6 [ETHYL ACETATE]	400		Time Weighted Average (TWA):		DB OEL
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE]		10	Time Weighted Average (TWA):		AD TLV
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE]		10	Time Weighted Average (TWA):		GCC TLV
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE]		10	Time Weighted Average (TWA):		UAE OEL
Talc (Mg ₃ H ₂ (SiO ₃) ₄) 14807-96-6 [TALC, CONTAINING NO ASBESTOS FIBERS, RESPIRABLE FRACTION]		2	Time Weighted Average (TWA):		AD TLV
Talc (Mg ₃ H ₂ (SiO ₃) ₄) 14807-96-6 [TALC (CONTAINING NO ASBESTOS FIBERS)]		2	Time Weighted Average (TWA):		GCC TLV
Talc (Mg ₃ H ₂ (SiO ₃) ₄) 14807-96-6 [TALC (CONTAINING NO ASBESTOS FIBERS)]		2	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) (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
Silicon dioxide 112945-52-5 [UN-CRYSTALLIZE SILICA (GRAPHITE) (TOTAL DUST)]		10	Time Weighted Average (TWA):		DB 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):		GCC TLV
Ethyl acetate 141-78-6 [ETHYL ACETATE]	400	1.440	Time Weighted Average (TWA):		BH TLV
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE]		10	Time Weighted Average (TWA):		BH TLV
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE]		10	Time Weighted Average (TWA):		GCC TLV
Talc (Mg ₃ H ₂ (SiO ₃) ₄) 14807-96-6 [TALC (CONTAINING NO ASBESTORS FIBERS)]		2	Time Weighted Average (TWA):		BH TLV
Talc (Mg ₃ H ₂ (SiO ₃) ₄) 14807-96-6 [TALC (CONTAINING NO ASBESTORS FIBERS)]		2	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
Calcium carbonate 471-34-1 [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
Titanium dioxide 13463-67-7 [Titanium dioxide]		10	Time Weighted Average (TWA):		EG OEL
Talc (Mg ₃ H ₂ (SiO ₃) ₄) 14807-96-6 [TALC, NONFIBROUS]			Time Weighted Average (TWA):		EG OEL
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS]			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
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE]	450	560	Short Term Exposure Limit (STEL):		JO TLV
Titanium dioxide	100	375	Time Weighted Average		JO TLV

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13463-67-7 [TITANIUM DIOXIDE]			(TWA):		
Talc (Mg ₃ H ₂ (SiO ₃) ₄) 14807-96-6 [ASBESTOS: TALC, RESPIRABLE DUST]		2	Time Weighted Average (TWA):		JO TLV

Occupational Exposure Limits

Valid for
Kuwait

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Calcium carbonate 471-34-1 [PARTICULATES, TOTAL]		15	Time Weighted Average (TWA):		KW OEL
Calcium carbonate 471-34-1 [PARTICULATES, TOTAL]			Harmful Concentration for risk to health and life:	Unknown	KW OEL
Calcium carbonate 471-34-1 [PARTICULATES, INHALED]			Harmful Concentration for risk to health and life:	Unknown	KW OEL
Calcium carbonate 471-34-1 [PARTICULATES, INHALED]		5	Time Weighted Average (TWA):		KW OEL
Calcium carbonate 471-34-1 [MARBLE (CALCIUM CARBONATE), TOTAL]			Harmful Concentration for risk to health and life:	Unknown	KW OEL
Calcium carbonate 471-34-1 [MARBLE (CALCIUM CARBONATE), INHALED]			Harmful Concentration for risk to health and life:	Unknown	KW OEL
Calcium carbonate 471-34-1 [MARBLE (CALCIUM CARBONATE), INHALED]		5	Time Weighted Average (TWA):		KW OEL
Calcium carbonate 471-34-1 [MARBLE (CALCIUM CARBONATE), TOTAL]		10	Time Weighted Average (TWA):		KW OEL
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE]		10	Time Weighted Average (TWA):		GCC TLV
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE]		5.000	Harmful Concentration for risk to health and life:		KW OEL
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE]		10	Time Weighted Average (TWA):		KW OEL
Talc (Mg ₃ H ₂ (SiO ₃) ₄) 14807-96-6 [TALC (CONTAINING NO ASBESTOS FIBERS)]		2	Time Weighted Average (TWA):		GCC TLV
Talc (Mg ₃ H ₂ (SiO ₃) ₄) 14807-96-6 [TALC (NOT CONTAINING ASBESTOS FIBERS) INHALED]		2	Time Weighted Average (TWA):		KW OEL
Talc (Mg ₃ H ₂ (SiO ₃) ₄) 14807-96-6 [TALC (NOT CONTAINING ASBESTOS FIBERS) INHALED]		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 [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

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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
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS]		6	Time Weighted Average (TWA):		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
Solvent naphtha (petroleum), light arom. 64742-95-6 [Kerosene/Jet fuels (non-aerosol), as total hydrocarbon vapor]		200	Time Weighted Average (TWA):		IL OEL
Solvent naphtha (petroleum), light arom. 64742-95-6 [Kerosene/Jet fuels (non-aerosol), as total hydrocarbon vapor]			Skin designation:	Danger of cutaneous absorption	IL OEL
Ethyl acetate 141-78-6 [ETHYL ACETATE]	400		Time Weighted Average (TWA):		IL OEL
Calcium carbonate 471-34-1 [Particles (insoluble or poorly soluble) not otherwise specified, respirable particles]		3	Time Weighted Average (TWA):		IL OEL
Calcium carbonate 471-34-1 [Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles]		10	Time Weighted Average (TWA):		IL OEL
Titanium dioxide 13463-67-7 [Titanium dioxide, finescale particles, respirable fraction]		2,5	Time Weighted Average (TWA):		IL OEL
Titanium dioxide 13463-67-7 [Titanium dioxide, nanoscale particles, respirable fraction]		0,2	Time Weighted Average (TWA):		IL OEL
Talc (Mg ₃ H ₂ (SiO ₃) ₄) 14807-96-6 [Talc, containing no asbestos fibers, respirable fraction]		2	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

Occupational Exposure Limits

Valid for
Kenya

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Solvent naphtha (petroleum), light arom. 64742-95-6 [WHITE SPIRIT]	100	575	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Solvent naphtha (petroleum), light arom. 64742-95-6	125	720	Short-term OEL-RL:		KE OEL-RL

[WHITE SPIRIT]				
Ethyl acetate 141-78-6 [ETHYL ACETATE]	400	1.400	Time-weighted average (TWA) OEL-RL:	KE OEL-RL
Calcium carbonate 471-34-1 [Marble respirable dust Calcium carbonate respirable dust Limestone respirable dust]		5	Time-weighted average (TWA) OEL-RL:	KE OEL-RL
Calcium carbonate 471-34-1 [Marble total inhalable dust Limestone total inhalable dust Calcium carbonate total inhalable dust]		10	Time-weighted average (TWA) OEL-RL:	KE OEL-RL
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE TOTAL INHALABLE DUST]		10	Time-weighted average (TWA) OEL-RL:	KE OEL-RL
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE RESPIRABLE DUST]		5	Time-weighted average (TWA) OEL-RL:	KE OEL-RL
Talc (Mg ₃ H ₂ (SiO ₃) ₄) 14807-96-6 [TALC TOTAL INHALABLE DUST]		10	Time-weighted average (TWA) OEL-RL:	KE OEL-RL
Talc (Mg ₃ H ₂ (SiO ₃) ₄) 14807-96-6 [TALC RESPIRABLE DUST]		1	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

Biological Exposure Indices:

None

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

Delivery form	liquid
Colour	Gray / Grey
Odor	Characteristic
Physical state	liquid
Melting point	Currently under determination
Initial boiling point	> 70 °C (> 158 °F);; Boiling point
Flammability	Currently under determination
Explosive limits	Currently under determination
Flash point	30 °C (86 °F); HST-US D09F; Flash/Fire Point By Cleveland Open Cup
Auto-ignition temperature	Currently under determination
Decomposition temperature	Currently under determination
pH (20 °C (68 °F); Conc.: 100 % product)	5 - 7 CP01; pH-value, glass electrode
Viscosity (kinematic)	Currently under determination
Viscosity, dynamic (; 20 °C (68 °F); speed of rotation: 10 min-1; Spindle No: 6)	2.500 - 3.500 cp Brookfield viscosity (LVT, RVT, HBT)
Solubility (qualitative)	Currently under determination
Partition coefficient: n-octanol/water	Currently under determination
Vapour pressure	Currently under determination
Density (20 °C (68 °F))	1,10 - 1,20 g/cm3 HST-US C02D; Density By Pycnometer
Relative vapour density:	Currently under determination
Particle characteristics	Currently under determination

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Based on available data, the classification criteria are not met.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Solvent naphtha (petroleum), light arom., <0.1% Benzene 128601-23-0	LD50	3.492 mg/kg	rat	not specified
Ethyl acetate 141-78-6	LD50	6.100 mg/kg	rat	not specified

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Based on available data, the classification criteria are not met.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Solvent naphtha (petroleum), light arom., <0.1% Benzene 128601-23-0	LD50	> 3.160 mg/kg	rabbit	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)
Ethyl acetate 141-78-6	LD50	> 20.000 mg/kg	rabbit	Draize Test

Acute inhalative toxicity:

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

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

Based on available data, the classification criteria are not met.

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
Solvent naphtha (petroleum), light arom., <0.1% Benzene 128601-23-0	LC50	> 10,2 mg/l	vapour	4 h	rat	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
Ethyl acetate 141-78-6	LC50	57,7 mg/l	vapour	4 h	rat	not specified
Ethyl acetate 141-78-6	LC50	> 22,5 mg/l	vapour	6 h	rat	other guideline:

Skin corrosion/irritation:

Causes skin irritation.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Solvent naphtha (petroleum), light arom., <0.1% Benzene 128601-23-0	mildly irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Ethyl acetate 141-78-6	slightly irritating	24 h	rabbit	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Causes serious eye irritation.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Solvent naphtha (petroleum), light arom., <0.1% Benzene 128601-23-0	not irritating		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Ethyl acetate 141-78-6	slightly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

An allergic reaction cannot be excluded after repeated skin contact.

Based on available data, the classification criteria are not met.

Hazardous substances CAS-No.	Result	Test type	Species	Method
Solvent naphtha (petroleum), light arom., <0.1% Benzene 128601-23-0	not sensitising	Guinea pig maximisation test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
Ethyl acetate 141-78-6	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Based on available data, the classification criteria are not met.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Solvent naphtha (petroleum), light arom., <0.1% Benzene 128601-23-0	negative	sister chromatid exchange assay in mammalian cells	with and without		equivalent or similar to OECD Guideline 479 (Genetic Toxicology: In Vitro Sister Chromatid Exchange Assay in Mammalian Cells)
Solvent naphtha (petroleum), light arom., <0.1% Benzene 128601-23-0	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Solvent naphtha (petroleum), light arom., <0.1% Benzene 128601-23-0	negative	mammalian cell gene mutation assay	with and without		equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Solvent naphtha (petroleum), light arom., <0.1% Benzene 128601-23-0	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	bacterial reverse mutation assay (e.g Ames test)	with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Ethyl acetate 141-78-6	negative	in vitro mammalian chromosome aberration test	with and without		equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Solvent naphtha (petroleum), light arom., <0.1% Benzene 128601-23-0	negative	inhalation: vapour		rat	equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
Ethyl acetate 141-78-6	negative	oral: gavage		hamster, Chinese	equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Carcinogenicity

No data available.

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Based on available data, the classification criteria are not met.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
Ethyl acetate 141-78-6	NOAEL P 1500 ppm	other:	inhalation	rat	other guideline:

STOT-single exposure:

May cause respiratory irritation.

Hazardous substances CAS-No.	Assessment	Route of exposure	Target Organs	Remarks
Solvent naphtha (petroleum), light arom., <0.1% Benzene 128601-23-0	May cause drowsiness or dizziness.			
Solvent naphtha (petroleum), light arom., <0.1% Benzene 128601-23-0	May cause respiratory irritation.			
Ethyl acetate 141-78-6	May cause drowsiness or dizziness.			

STOT-repeated exposure:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Based on available data, the classification criteria are not met.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Solvent naphtha (petroleum), light arom., <0.1% Benzene 128601-23-0	NOAEL 600 mg/kg	oral: gavage	90 d 7 days/week	rat	equivalent or similar to OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Ethyl acetate 141-78-6	NOAEL 900 mg/kg	oral: gavage	90 d daily	rat	EPA OTS 795.2600 (Subchronic Oral Toxicity Test)

Aspiration hazard:

The mixture is classified based on Viscosity data.

Based on available data, the classification criteria are not met.

Hazardous substances CAS-No.	Viscosity (kinematic) Value	Temperature	Method	Remarks
Solvent naphtha (petroleum), light arom., <0.1% Benzene 128601-23-0	0,8 mm ² /s	40 °C	calculated	

11.2 Information on other hazards**11.2.1 Endocrine disrupting properties**

No data available.

SECTION 12: Ecological information

General ecological information:

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

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Solvent naphtha (petroleum), light arom., <0.1% Benzene 128601-23-0	LL50	9,2 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Ethyl acetate 141-78-6	LC50	220 mg/l	96 h	Pimephales promelas	other guideline:

Toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Solvent naphtha (petroleum), light arom., <0.1% Benzene 128601-23-0	EL50	3,2 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Ethyl acetate 141-78-6	EC50	164 mg/l	48 h	Daphnia cucullata	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Chronic toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Solvent naphtha (petroleum), light arom., <0.1% Benzene 128601-23-0	NOELR	2,6 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Ethyl acetate 141-78-6	NOEC	2,4 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Solvent naphtha (petroleum), light arom., <0.1% Benzene 128601-23-0	EL50	2,9 mg/l	72 h	Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Solvent naphtha (petroleum), light arom., <0.1% Benzene 128601-23-0	NOELR	1 mg/l	72 h	Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Ethyl acetate 141-78-6	EC50	> 2.000 mg/l	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Ethyl acetate 141-78-6	NOEC	2.000 mg/l	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)

Toxicity (microorganisms):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Ethyl acetate 141-78-6	EC10	2.900 mg/l	18 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm- Test)

12.2. Persistence and degradability

Biodegradability (Screening Tests):

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Solvent naphtha (petroleum), light arom., <0.1% Benzene 128601-23-0	readily biodegradable	aerobic	78 %	28 day	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Ethyl acetate 141-78-6	readily biodegradable	aerobic	100 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

(Bio)degradability (Simulation Tests):

No data available.

12.3. Bioaccumulative potential

Partition Coefficient (octanol/water)

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	LogPow	Temperature	Method
Solvent naphtha (petroleum), light arom., <0.1% Benzene 128601-23-0	2,13 - 4,58		QSAR (Quantitative Structure Activity Relationship)
Ethyl acetate 141-78-6	0,68	25 °C	EPA OPPTS 830.7560 (Partition Coefficient, n-octanol / H2O, Generator Column Method)

Bioconcentration factor (BCF)

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Bioconcentration factor (BCF)	Exposure time	Temperature	Species	Method
Ethyl acetate 141-78-6	30	3 d	22,5 °C	Leuciscus idus melanotus	other guideline:

12.4. Mobility in soil

No data available.

12.5. Results of PBT / vPvB / PMT / vPvM assessment

PBT/vPvB

This mixture does not contain any substances that are assessed to be a PBT or vPvB.
Based on available data, the classification criteria are not met.

PMT/vPvM

This mixture does not contain any substances that are assessed to be a PMT or vPvM.
Based on available data, the classification criteria are not met.

12.6. Endocrine disrupting properties

No data available.

12.7. 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

080119

SECTION 14: Transport information

14.1. UN number or ID number

ADR	1139
RID	1139
ADN	1139
IMDG	1139
IATA	1139

14.2. UN proper shipping name

ADR	COATING SOLUTION
RID	COATING SOLUTION
ADN	COATING SOLUTION
IMDG	COATING SOLUTION (Solvent naphtha (petroleum), light arom., <0.1% Benzene)
IATA	Coating solution

14.3. Transport hazard class(es)

ADR	3
RID	3
ADN	3
IMDG	3
IATA	3

14.4. Packing group

ADR	III
RID	III
ADN	III
IMDG	III
IATA	III

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	not applicable Tunnelcode: (D/E)
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.7. Maritime transport in bulk according to IMO instruments

not applicable

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 2024/590):	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.
- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

- ADG(-Code): Australian Dangerous Goods (Code)
- ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
- ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
- ASTM: American Society for Testing and Materials
- ATE: acute toxicity estimate
- AS: Australian Standard
- AwSV: Ordinance on Installations for the Handling of Substances Hazardous to Water
- CAS: Chemical Abstract Service
- CLP: Regulation (EC) No 1272/2008
- CMR: cancerogenic, mutagenic or reprotoxic
- DIN: German Institute for Standardization
- ECx: Effective concentration (x% effective level)
- ECHA: European Chemicals Agency
- EC-Nummer: Substance number in the EU-inventories EINECS/ELINCS
- ECTLV: European community threshold limit value
- ED: Substance identified as having endocrine disrupting properties
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- EN : European Standard
- ENCS: Japanese chemical inventory
- EPA: US Environmental Protection Agency
- EU: European Union
- EU EXPLD1: Substance listed in Annex I, Reg (EC) No. 2019/1148
- EU EXPLD2: Substance listed in Annex II, Reg (EC) No. 2019/1148
- EWC: European Waste Catalogue
- GHS: Globally Harmonised System for Classification and Labelling of Chemicals
- GLP: Good Laboratory Practice
- HSNO: Hazardous Substances and New Organisms
- IARC: International Agency for Research of Cancer
- IATA: International Air Transport Association
- IBC-Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
- IC50: half maximal inhibitory concentration
- ICAO: International Civil Aviation Organization
- IMDG-Code: International Maritime Code for Dangerous Goods
- IMO: International Maritime Organization
- ISO: International Standardization Organisation
- LC50: Median lethal concentration
- LD50: Median lethal dose
- MARPOL: International Convention for the Prevention of Marine Pollution from Ships
- n.o.s.: not otherwise specified
- NO(A)EC: No (adverse) effect concentration
- NO(A)EL: No (adverse) effect level
- NZS: New Zealand Standard
- OECD: Organisation for Economic Co-operation and Development
- OEL: Occupational Exposure Limit
- OPPT: US EPA Office of Pollution Prevention and Toxics
- OPPTS: US EPA Office of Prevention, Pesticides and Toxic Substances
- PBT: Persistent, bioaccumulative, toxic
- (Q)SAR: (Quantitative) structure–activity relationship
- REACH: Regulation (EC) No. 1907/2006

RID: Regulations concerning the International Transport of Dangerous Goods by Rail
SADT: Self Accelerating Decomposition Temperature
SDS: Safety Data Sheet
STOT: Specific Target Organ Toxicity
STOT SE: Specific Target Organ Toxicity - single exposure
STOT RE: Specific Target Organ Toxicity - repeated exposure
SUSMP: Standard for the Uniform Scheduling of Medicines and Poisons
SVHC: Substance of very high concern (REACH Candidate List)
TRGS: German Technical Rules for hazardous substances
UN: United Nations
VOC: Volatile Organic Compound
814.018 VOC Reg CH: Swiss Ordinance 814.018 on the Incentive Tax on Volatile Organic Compounds
vPvB: Very persistent, very bioaccumulative
VwVwS: Administrative Regulation on Substances Hazardous to Waters
WGK: Water hazard class

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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The product is intended for industrial use.

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