Safety Data Sheet according to GB/T 16483 and GB/T 17519

Pattex CA PX4L 4*4L/Ctn

Material No.: 1786495
V001.25
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1. Identification of the substance/preparation and of the company/undertaking

Product name: **Pattex CA PX4L 4*4L/Ctn**

Intended use: Contact adhesive

Manufacturer/Importer/Distributor Representative Company

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2. Hazards identification

EMERGENCY OVERVIEW:
Yellow, Of ester and keton, liquid, Highly flammable liquid and vapour.Causes skin irritation.Causes serious eye irritation.May cause an allergic skin reaction.May cause drowsiness or dizziness.May be fatal if swallowed and enters airways.Very toxic to aquatic life.Harmful to aquatic life with long lasting effects.

Classification of the substance or mixture according to GB 30000.1 (Specification for classification and labelling of chemicals—Part 1：General rules):

Hazard Class	Hazard Category	Target organ
Flammable liquids	Category 2	
Skin corrosion/irritation	Category 2	
Serious eye damage/eye irritation	Category 2A	
Skin sensitizer	Category 1	
Specific target organ toxicity - single exposure	Category 3	Central nervous system
Aspiration hazard	Category 1	
Acute hazards to the aquatic environment	Category 1	
Chronic hazards to the aquatic environment	Category 3	

Label elements according to GB 15258 (General rules for preparation of precautionary label for chemicals):

Hazard pictogram:

Signal word: Danger

Hazard statement:	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. H336 May cause drowsiness or dizziness. H400 Very toxic to aquatic life. H412 Harmful to aquatic life with long lasting effects.
Prevention:	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting equipment. P242 Use non-sparking tools. P243 Take action to prevent static discharges. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash hands thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves, eye protection, and face protection.
Response:	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P304+P340+P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P331 Do NOT induce vomiting. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. P391 Collect spillage.
Storage:	P403+P233 Store in a well-ventilated place. Keep container tightly closed. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.
Disposal:	P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Physical and chemical hazards:

Highly flammable liquid and vapour.

Health hazards:

Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways.

Environmental hazards:

Very toxic to aquatic life.Harmful to aquatic life with long lasting effects.

3. Composition / information on ingredients

Substance or Mixture:
Mixture

Declaration of the ingredients according to GB 30000.1:

Hazard component CAS-No.	Content	GHS Classification
cyclohexane 110-82-7	30- < 50 %	Flammable liquids 2 H225 Skin corrosion/irritation 2 H315 Specific target organ toxicity - single exposure 3 H336 Aspiration hazard 1 H304 Acute hazards to the aquatic environment 1 H400 Chronic hazards to the aquatic environment 3 H412
Ethyl acetate 141-78-6	10- < 20 %	Flammable liquids 2 H225 Serious eye damage/eye irritation 2B H320 Specific target organ toxicity - single exposure 3 H336
acetone 67-64-1	10- < 20 %	Flammable liquids 2 H225 Serious eye damage/eye irritation 2A H319 Specific target organ toxicity - single exposure 3 H336
Naphtha 8030-30-6	1- < 10 %	Flammable liquids 3 H226 Aspiration hazard 1 H304
Phenolic resin Proprietary	1- < 10 %	Skin sensitizer 1 H317
rosin 8050-09-7	0.1- < 1 %	Acute toxicity 5; Oral H303 Skin sensitizer 1 H317
2,6-Di-tert-butyl-p-cresol 128-37-0	0.1- < 0.25 %	Acute hazards to the aquatic environment 1 H400 Chronic hazards to the aquatic environment 1 H410

Only hazardous ingredients for which a classification according to GB 30000.1 is already available are displayed in this table. For full text of the Hazard statements see section 16 "Other information".

4. First aid measures

Description of necessary first-aid measures:

Skin contact: Immediately remove soiled or soaked clothing.
Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

Eye contact: Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Inhalation: Move to fresh air.
Keep warm and in a quiet place.
Administer oxygen or artificial respiration as needed.
Seek medical attention from a specialist.

Ingestion:	Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.
Most important symptoms/effects, acute and delayed:	The most important known symptoms and effects are described in chapters 2 and/or 11.
Indication of any immediate medical attention and special treatment needed, if necessary:	Post-exposure treatment should focus on controlling the patient's clinical symptoms and signs.

5. Fire fighting measures

Suitable extinguishing media:	Foam, dry chemical or carbon dioxide. In case of fire, keep containers cool with water spray.
Fire-fighting method:	Explosive bursting of containers is possible. Avoid open flames and sources of ignition.
Special hazards arising from the substance or mixture:	Carbon dioxide. Carbon monoxide.
Special protective actions for fire-fighters:	Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapours may accumulate in low or confined areas, travel considerable distance to source of ignition, and flash back. Wear a self-contained breathing apparatus with a full face piece operated in pressure-demand or other positive pressure mode. Wear full protective clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Keep unprotected persons away. Wear protective equipment.
Environmental precautions:	Eliminate all sources of ignition or flammables that may come into contact with a spill of this material. Ventilate area. Do not allow product to enter sewer or waterways.
Methods and materials for containment and cleaning up:	Use noncombustible absorbent material such as sand. Use non-sparking tools for clean-up. Absorb spill with inert material. Shovel material into appropriate container for disposal.

7. Handling and storage

Precautions for safe handling:
Ensure good ventilation/suction at the workplace.
Take measures to prevent the build-up of electrostatic charges.
Wear suitable protective clothing, safety glasses and gloves.
Avoid open flames and sources of ignition.
Avoid skin and eye contact.
Keep out of the reach of children.
When using do not eat, drink or smoke.
See advice in section 8

Hygiene measures:
Do not eat, drink, smoke or take snuff while working.
Wash thoroughly after handling.
Keep absolute tidiness at the working place.Avoid contact with skin and eyes. Remove soiled or soaked clothing immediately. Wash off any contamination that gets onto the skin with plenty of water and soap, skin care.

Conditions for safe storage, including any incompatibilities:
Temperatures between + 5 °C and + 35 °C.

8. Exposure controls / personal protection

Controls parameters:

Occupational Exposure Limits:

Hazardous components CAS-No.	GBZ 2.1-2019	ACGIH	NIOSH	OSHA
cyclohexane 110-82-7	250 mg/m3PC-TWA	100 ppm TWA	none	none
Ethyl acetate 141-78-6	300 mg/m3PC-STEL 200 mg/m3PC-TWA	400 ppm TWA	none	none
acetone 67-64-1	300 mg/m3PC-TWA 450 mg/m3PC-STEL	250 ppm TWA 500 ppm TWA	none	none

Biological Exposure Indices:

Hazardous components CAS-No.	BEIs		Occupational exposure biological limit	Sampling time	Regulation
	Biological Specimen	Parameters			
acetone 67-64-1	Urine	acetone	50 mg/l	Sampling time: End of shift.	GBZ 2.1-2019

Engineering controls:
Ensure good ventilation/extraction.
Handle in accordance with good industrial hygiene and safety practice
Avoid naked flames, sparking and sources of ignition.
Prevent electrostatic charge build-up by using common bonding and grounding techniques.

Respiratory protection:
Suitable breathing mask when there is inadequate ventilation.

Eye protection:
Wear tight fitting goggles.

Body protection:
Wear suitable protective clothing.
Protective clothing that covers arms and legs.

Hand protection:
Suitable protective gloves.
Avoid skin-contact.

9. Physical and chemical properties

Physical state:	liquid	Appearance:	Yellow
Evaporation rate:	Not available.	Odor:	Of ester and keton
pH:	Not available.	Melting point:	Not available.
Boiling point:	> 35 °C (> 95 °F)	Density:	0.8 - 0.9 g/ml
Vapor density:	Not available.	Vapor pressure:	Not available.
Flash point:	2 - 8 °C (35.6 - 46.4 °F), ;; Internal Henkel specification	Ignition temperature:	Not available.
Lower explosive limit:	Not available.	Upper explosive limit:	Not available.
Solubility in water	Not available.	Viscosity:	2,000 - 3,000 mPa.s
Auto-ignition temperature:	Not available.	Flammability:	Not available.
Octanol / water distribution coefficient:	Not available.	Decomposition temperature:	Not available.
VOC:	Solvent-based adhesive Neoprene Interior Decoration < 600 g/l, GB 33372-2020 Limit of volatile organic compounds content in adhesive		

10. Stability and reactivity

Reactivity: Strong oxidizing agents.
Strong bases.
Strong acids.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: None if used properly.

Conditions to avoid: Heat, flames, sparks and other sources of ignition.

Incompatible materials: None if used properly.

Hazardous decomposition products: Carbon dioxide, carbon monoxide and irritating and/or toxic gases and particulate may be generated by thermal decomposition or combustion.

Hazardous polymerization: Will not occur.

11. Toxicological information

General toxicological information:
No laboratory animal data available.

Acute oral toxicity:

cyclohexane 110-82-7	Value type	LD 50
	Value	29,820 mg/kg
	Species	Rat
	Method	
cyclohexane 110-82-7	Value type	LD 50
	Value	1,300 mg/kg
	Species	Mouse
	Method	
cyclohexane 110-82-7	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rat
	Method	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
Ethyl acetate 141-78-6	Value type	LD 50
	Value	5.6 g/kg
	Species	Rat
	Method	
Ethyl acetate 141-78-6	Value type	LD 50
	Value	0.44 g/kg
	Species	Mouse
	Method	
Ethyl acetate 141-78-6	Value type	LD50
	Value	6,100 mg/kg
	Species	rat
	Method	not specified
acetone 67-64-1	Value type	LD 50
	Value	5.2 g/kg
	Species	Mouse
	Method	
acetone 67-64-1	Value type	LD 50
	Value	3,000 mg/kg
	Species	Mouse
	Method	
acetone 67-64-1	Value type	LD 50
	Value	5,340 mg/kg
	Species	Rabbit
	Method	
acetone 67-64-1	Value type	LD 50
	Value	5,800 mg/kg
	Species	Rat
	Method	
acetone 67-64-1	Value type	LD 50
	Value	9,800 mg/kg
	Species	Rat
	Method	
acetone 67-64-1	Value type	LD50
	Value	5,800 mg/kg
	Species	rat
	Method	not specified
Phenolic resin Proprietary	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rat
	Method	not specified
rosin 8050-09-7	Value type	LD50
	Value	2,800 mg/kg
	Species	rat
	Method	not specified
2,6-Di-tert-butyl-p-cresol 128-37-0	Value type	LD 50
	Value	10,700 mg/kg
	Species	Guinea pig
	Method	

2,6-Di-tert-butyl-p-cresol 128-37-0	Value type	LD 50
	Value	1,040 mg/kg
	Species	Mouse
	Method	
2,6-Di-tert-butyl-p-cresol 128-37-0	Value type	LD 50
	Value	890 mg/kg
	Species	Rat
	Method	
2,6-Di-tert-butyl-p-cresol 128-37-0	Value type	LD50
	Value	> 6,000 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)

Acute dermal toxicity:

cyclohexane 110-82-7	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rabbit
	Method	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)
Ethyl acetate 141-78-6	Value type	LD50
	Value	> 20,000 mg/kg
	Species	rabbit
	Method	Draize Test
acetone 67-64-1	Value type	LD 50
	Value	20,000 mg/kg
	Species	Rabbit
	Method	
acetone 67-64-1	Value type	LD50
	Value	> 15,688 mg/kg
	Species	rabbit
	Method	Draize Test
Phenolic resin Proprietary	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rabbit
	Method	not specified
rosin 8050-09-7	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
2,6-Di-tert-butyl-p-cresol 128-37-0	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)

Acute inhalative toxicity:

cyclohexane 110-82-7	Value type	LC 50
	Value	> 32,880 mg/m3
	Exposure time	4 h
	Species	Rat
	Method	
cyclohexane 110-82-7	Value type	NOAEL
	Value	32,880 mg/m3
	Exposure time	
	Species	Mouse
	Method	
cyclohexane 110-82-7	Value type	LC50
	Value	> 32.880 mg/l
	Exposure time	4 h
	Species	rat
	Method	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
cyclohexane 110-82-7	Value type	LC 50
	Value	> 5540 ppm
	Exposure time	4 h
	Species	Rat
	Method	

Ethyl acetate 141-78-6	Value type	LC Lo
	Value	> 6000 ppm
	Exposure time	6 h
	Species	Rat
	Method	
Ethyl acetate 141-78-6	Value type	LC0
	Value	> 22.5 mg/l
	Exposure time	6 h
	Species	rat
	Method	other guideline:
Ethyl acetate 141-78-6	Value type	LC50
	Value	> 22.5 mg/l
	Exposure time	6 h
	Species	rat
	Method	other guideline:
acetone 67-64-1	Value type	LC
	Value	21300 ppm
	Exposure time	3 h
	Species	Cat
	Method	
acetone 67-64-1	Value type	LC Lo
	Value	110 mg/l
	Exposure time	1 h
	Species	Mouse
	Method	
acetone 67-64-1	Value type	LC Lo
	Value	16000 ppm
	Exposure time	4 h
	Species	Rat
	Method	
acetone 67-64-1	Value type	LC50
	Value	76 mg/l
	Exposure time	4 h
	Species	rat
	Method	not specified
acetone 67-64-1	Value type	LC 50
	Value	55700 ppm
	Exposure time	3 h
	Species	Rat
	Method	
acetone 67-64-1	Value type	LOAEL
	Value	12000 ppm
	Exposure time	4 h
	Species	Human
	Method	
acetone 67-64-1	Value type	LC
	Value	46000 ppm
	Exposure time	1 h
	Species	Mouse
	Method	
acetone 67-64-1	Value type	LOAEL
	Value	0.01 mg/l
	Exposure time	6 h
	Species	Human
	Method	
acetone 67-64-1	Value type	LC
	Value	42000 ppm
	Exposure time	
	Species	Rat
	Method	
acetone 67-64-1	Value type	LC 50
	Value	132 mg/l
	Exposure time	3 h
	Species	Rat
	Method	
acetone 67-64-1	Value type	LC 50
	Value	76 mg/l
	Exposure time	4 h
	Species	Rat
	Method	

acetone 67-64-1	Value type	LC 50
	Value	50.1 mg/l
	Exposure time	4 h
	Species	Rat
	Method	
acetone 67-64-1	Value type	LC
	Value	40000 ppm
	Exposure time	
	Species	Guinea pig
	Method	
acetone 67-64-1	Value type	LC
	Value	126000 ppm
	Exposure time	2 h
	Species	Rat
	Method	
acetone 67-64-1	Value type	LOAEL
	Value	500 ppm
	Exposure time	
	Species	Human
	Method	
Naphtha 8030-30-6	Value type	LC 50
	Value	> 4,980 mg/m3
	Exposure time	4 h
	Species	Rat
	Method	
Naphtha 8030-30-6	Value type	LC 50
	Value	> 5,000 mg/m3
	Exposure time	4 h
	Species	Rat
	Method	
Naphtha 8030-30-6	Value type	LC 50
	Value	> 5,740 mg/m3
	Exposure time	4 h
	Species	Rat
	Method	
Naphtha 8030-30-6	Value type	LC 50
	Value	> 5,170 mg/m3
	Exposure time	4 h
	Species	Rat
	Method	
Naphtha 8030-30-6	Value type	LC 50
	Value	> 5.1 mg/l
	Exposure time	4 h
	Species	Rat
	Method	
Naphtha 8030-30-6	Value type	LOAEL
	Value	960 mg/m3
	Exposure time	30 min
	Species	Human
	Method	
Naphtha 8030-30-6	Value type	LOAEL
	Value	2,400 mg/m3
	Exposure time	30 min
	Species	Human
	Method	
Naphtha 8030-30-6	Value type	LOAEL
	Value	4,800 mg/m3
	Exposure time	30 min
	Species	Human
	Method	
Naphtha 8030-30-6	Value type	LC 50
	Value	> 5,080 mg/m3
	Exposure time	4 h
	Species	Rat
	Method	
Naphtha 8030-30-6	Value type	LC 50
	Value	> 4.96 mg/l
	Exposure time	4 h
	Species	Rat
	Method	

Naphtha 8030-30-6	Value type	LC 50
	Value	> 5,280 mg/m3
	Exposure time	4 h
	Species	Rat
	Method	
Naphtha 8030-30-6	Value type	LC 50
	Value	> 8,530 mg/m3
	Exposure time	4 h
	Species	Rat
	Method	
Naphtha 8030-30-6	Value type	LOAEL
	Value	4,320 mg/m3
	Exposure time	1 h
	Species	Human
	Method	
Naphtha 8030-30-6	Value type	LC 50
	Value	> 7,970 mg/m3
	Exposure time	4 h
	Species	Rat
	Method	
Naphtha 8030-30-6	Value type	LC 50
	Value	> 5,240 mg/m3
	Exposure time	4 h
	Species	Rat
	Method	
Naphtha 8030-30-6	Value type	LC 50
	Value	> 5,250 mg/m3
	Exposure time	4 h
	Species	Rat
	Method	
Naphtha 8030-30-6	Value type	LC 50
	Value	> 5,050 mg/m3
	Exposure time	4 h
	Species	Rat
	Method	
Naphtha 8030-30-6	Value type	LC 50
	Value	> 4,420 mg/m3
	Exposure time	4 h
	Species	Rat
	Method	
Naphtha 8030-30-6	Value type	LC 50
	Value	> 5 mg/l
	Exposure time	4 h
	Species	Rat
	Method	
Naphtha 8030-30-6	Value type	LC 50
	Value	> 5,000 mg/m3
	Exposure time	4 h
	Species	Rat
	Method	
Naphtha 8030-30-6	Value type	LOAEL
	Value	2,400 mg/m3
	Exposure time	1 h
	Species	Human
	Method	
Naphtha 8030-30-6	Value type	LC 50
	Value	> 5,200 mg/m3
	Exposure time	4 h
	Species	Rat
	Method	
Naphtha 8030-30-6	Value type	LC 50
	Value	> 5,260 mg/m3
	Exposure time	4 h
	Species	Rat
	Method	
Naphtha 8030-30-6	Value type	LC 50
	Value	> 5.36 mg/l
	Exposure time	4 h
	Species	Rat
	Method	

Naphtha 8030-30-6	Value type	LC 50
	Value	> 7,630 mg/m3
	Exposure time	4 h
	Species	Rat
	Method	
Naphtha 8030-30-6	Value type	LC 50
	Value	> 5,610 mg/m3
	Exposure time	4 h
	Species	Rat
	Method	
Naphtha 8030-30-6	Value type	LC 50
	Value	> 5,470 mg/m3
	Exposure time	4 h
	Species	Rat
	Method	
Naphtha 8030-30-6	Value type	LC 50
	Value	> 5,300 mg/m3
	Exposure time	4 h
	Species	Rat
	Method	
Naphtha 8030-30-6	Value type	LC 50
	Value	> 5.07 mg/l
	Exposure time	4 h
	Species	Rat
	Method	
Naphtha 8030-30-6	Value type	LC 50
	Value	> 5,300 mg/m3
	Exposure time	4 h
	Species	Rat
	Method	
Naphtha 8030-30-6	Value type	LC 50
	Value	> 7,300 mg/m3
	Exposure time	4 h
	Species	Rat
	Method	
Naphtha 8030-30-6	Value type	LC 50
	Value	> 5,000 mg/m3
	Exposure time	4 h
	Species	Rat
	Method	
Naphtha 8030-30-6	Value type	LC 50
	Value	> 5,020 mg/m3
	Exposure time	4 h
	Species	Rat
	Method	
Naphtha 8030-30-6	Value type	LC 50
	Value	> 5,830 mg/m3
	Exposure time	4 h
	Species	Rat
	Method	
Naphtha 8030-30-6	Value type	LC 50
	Value	> 5,220 mg/m3
	Exposure time	4 h
	Species	Rat
	Method	
Naphtha 8030-30-6	Value type	LC 50
	Value	> 4,970 mg/m3
	Exposure time	4 h
	Species	Rat
	Method	
Naphtha 8030-30-6	Value type	LC 50
	Value	> 5,160 mg/m3
	Exposure time	4 h
	Species	Rat
	Method	
Naphtha 8030-30-6	Value type	LC 50
	Value	> 5,040 mg/m3
	Exposure time	4 h
	Species	Rat
	Method	

Naphtha 8030-30-6	Value type	LC 50
	Value	> 5,100 mg/m3
	Exposure time	4 h
	Species	Rat
	Method	
Naphtha 8030-30-6	Value type	LC 50
	Value	>= 5,060 mg/m3
	Exposure time	4 h
	Species	Rat
	Method	
2,6-Di-tert-butyl-p-cresol 128-37-0	Value type	RD 50
	Value	60 ppm
	Exposure time	30 min
	Species	Mouse
	Method	

Skin corrosion/irritation:

cyclohexane 110-82-7	Result	irritating
	Exposure time	
	Species	rabbit
	Method	Weight of evidence
Ethyl acetate 141-78-6	Result	slightly irritating
	Exposure time	24 h
	Species	rabbit
	Method	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
acetone 67-64-1	Result	not irritating
	Exposure time	
	Species	guinea pig
	Method	not specified
rosin 8050-09-7	Result	not irritating
	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
2,6-Di-tert-butyl-p-cresol 128-37-0	Result	not irritating
	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

cyclohexane 110-82-7	Result	slightly irritating
	Exposure time	
	Species	rabbit
	Method	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Ethyl acetate 141-78-6	Result	slightly irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
acetone 67-64-1	Result	irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
rosin 8050-09-7	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
2,6-Di-tert-butyl-p-cresol 128-37-0	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	Draize Test

Respiratory or skin sensitization:

cyclohexane 110-82-7	Result	not sensitising
	Test type	Buehler test
	Species	guinea pig
	Method	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
Ethyl acetate 141-78-6	Result	not sensitising
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)
acetone 67-64-1	Result	not sensitising
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	not specified
2,6-Di-tert-butyl-p-cresol 128-37-0	Result	not sensitising
	Test type	Draize Test
	Species	guinea pig
	Method	Draize Test

Germ cell mutagenicity:

cyclohexane 110-82-7	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
cyclohexane 110-82-7	Result	negative
	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
cyclohexane 110-82-7	Result	negative
	Type of study / Route of administration	inhalation: vapour
	Metabolic activation / Exposure time	
	Species	rat
	Method	equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
Ethyl acetate 141-78-6	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Ethyl acetate 141-78-6	Result	negative
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Ethyl acetate 141-78-6	Result	negative
	Type of study / Route of administration	oral: gavage
	Metabolic activation / Exposure time	
	Species	hamster, Chinese
	Method	equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
acetone 67-64-1	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
acetone 67-64-1	Result	negative
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
acetone 67-64-1	Result	negative
	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	without
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
acetone 67-64-1	Result	negative
	Type of study / Route of administration	oral: drinking water
	Metabolic activation / Exposure time	
	Species	mouse
	Method	not specified
rosin 8050-09-7	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2,6-Di-tert-butyl-p-cresol 128-37-0	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	not specified
2,6-Di-tert-butyl-p-cresol 128-37-0	Result	negative
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	not specified
2,6-Di-tert-butyl-p-cresol 128-37-0	Result	negative
	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with
	Method	not specified

2,6-Di-tert-butyl-p-cresol 128-37-0	Result	negative
	Type of study / Route of administration	oral: feed
	Metabolic activation / Exposure time	
	Species	rat
	Method	not specified
2,6-Di-tert-butyl-p-cresol 128-37-0	Result	negative
	Type of study / Route of administration	intraperitoneal
	Metabolic activation / Exposure time	
	Species	mouse
	Method	not specified

Carcinogenicity
May cause cancer.

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
acetone 67-64-1	not carcinogenic	dermal	424 d 3 times per week	mouse	female	not specified
2,6-Di-tert-butyl-p-cresol 128-37-0	not carcinogenic	oral: feed	2 y daily	rat	male	not specified

Reproductive toxicity:
No data available.

STOT-single exposure:
The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Assessment	Route of exposure	Target Organs	Remarks
cyclohexane 110-82-7	Category 3 with narcotic effects.			
acetone 67-64-1	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.

Hazardous components CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
cyclohexane 110-82-7		inhalation: vapour	13-14 w 6 h/d, 5 d/w	mouse	EPA OPPTS 870.3465 (90-Day Inhalation Toxicity)
Ethyl acetate 141-78-6	NOAEL 900 mg/kg	oral: gavage	90 d daily	rat	EPA OTS 795.2600 (Subchronic Oral Toxicity Test)
acetone 67-64-1	NOAEL 900 mg/kg	oral: drinking water	13 w daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
2,6-Di-tert-butyl-p-cresol 128-37-0	NOAEL 25 mg/kg	oral: feed	22 months daily	rat	not specified

Aspiration hazard:

The mixture is classified based on Viscosity data.

Hazardous components CAS-No.	Viscosity (kinematic) Value	Temperature	Method	Remarks
cyclohexane 110-82-7	0.41 mm2/s	40 °C	not specified	

Other remarks:
Not available.

12. Ecological information

General ecological information:
Do not empty into drains / surface water / ground water.

Toxicity:

Toxicity (Fish):

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

Hazardous components CAS-No.	Value type	Value	Exposure time	Species	Method
cyclohexane 110-82-7	LC50	4.53 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Ethyl acetate 141-78-6	LC50	220 mg/l	96 h	Pimephales promelas	other guideline:
acetone 67-64-1	LC50	8,120 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
rosin 8050-09-7	LC50	Toxicity > Water solubility	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
2,6-Di-tert-butyl-p-cresol 128-37-0	LC50	Toxicity > Water solubility	96 h	Brachydanio rerio (new name: Danio rerio)	EU Method C.1 (Acute Toxicity for Fish)
2,6-Di-tert-butyl-p-cresol 128-37-0	NOEC	0.053 mg/l	30 d	Oryzias latipes	OECD Guideline 210 (fish early lite stage toxicity test)

Toxicity (aquatic invertebrates):

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

Hazardous components CAS-No.	Value type	Value	Exposure time	Species	Method
cyclohexane 110-82-7	EC50	0.9 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)
acetone 67-64-1	EC50	8,800 mg/l	48 h	Daphnia pulex	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Phenolic resin Proprietary	EC50	> 100 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
rosin 8050-09-7	EL50	Toxicity > Water solubility	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2,6-Di-tert-butyl-p-cresol 128-37-0	EC50	0.48 mg/l	48 h	Daphnia magna	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.

Hazardous components CAS-No.	Value type	Value	Exposure time	Species	Method
Ethyl acetate 141-78-6	NOEC	2.4 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
acetone 67-64-1	NOEC	2,212 mg/l	28 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

2,6-Di-tert-butyl-p-cresol 128-37-0	NOEC	0.069 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.

Hazardous components **CAS-No.**	**Value type**	**Value**	**Exposure time**	**Species**	**Method**
cyclohexane 110-82-7	EC50	9.317 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
cyclohexane 110-82-7	NOEC	0.95 mg/l	72 h	Selenastrum capricornutum (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)
acetone 67-64-1	NOEC	530 mg/l	8 d	Microcystis aeruginosa	DIN 38412-09
rosin 8050-09-7	EL50	Toxicity > Water solubility	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
rosin 8050-09-7	NOELR	Toxicity > Water solubility	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
2,6-Di-tert-butyl-p-cresol 128-37-0	EC50	Toxicity > Water solubility	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	EU Method C.3 (Algal Inhibition test)
2,6-Di-tert-butyl-p-cresol 128-37-0	EC10	0.4 mg/l	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	EU Method C.3 (Algal Inhibition test)

Toxicity (microorganisms):

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

Hazardous components **CAS-No.**	**Value type**	**Value**	**Exposure time**	**Species**	**Method**
cyclohexane 110-82-7	IC50	29 mg/l	15 h	other:	not specified
Ethyl acetate 141-78-6	EC10	2,900 mg/l	18 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)
acetone 67-64-1	EC10	1,000 mg/l	30 min	Pseudomonas putida	DIN 38412, part 27 (Bacterial oxygen consumption test)
rosin 8050-09-7	EC20	Toxicity > Water solubility	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
2,6-Di-tert-butyl-p-cresol 128-37-0	EC50	Toxicity > Water solubility	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

Persistence and degradability

Hazardous components CAS-No.	Result	Test type	Degradability	Exposure time	Method
cyclohexane 110-82-7	readily biodegradable	aerobic	77 %	28 d	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)
acetone 67-64-1	readily biodegradable	aerobic	81 - 92 %	30 d	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test)
rosin 8050-09-7	readily biodegradable	aerobic	71 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
2,6-Di-tert-butyl-p-cresol 128-37-0	not readily biodegradable.	aerobic	4.5 %	28 d	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
2,6-Di-tert-butyl-p-cresol 128-37-0	not inherently biodegradable	aerobic	5.2 - 5.6 %	35 d	OECD Guideline 302 C (Inherent Biodegradability: Modified MITI Test (II))

Bioaccumulative potential

No data available.

Hazardous components CAS-No.	**Bioconcentration factor (BCF)**	**Exposure time**	**Temperature**	**Species**	**Method**
cyclohexane 110-82-7				Pimephales promelas	
cyclohexane 110-82-7	167			Pimephales promelas	QSAR (Quantitative Structure Activity Relationship)
cyclohexane 110-82-7				Cyprinus carpio	
Ethyl acetate 141-78-6	30	3 d	22.5 °C	Leuciscus idus melanotus	other guideline:
acetone 67-64-1		11 h	9 °C	Haddock, adult	
rosin 8050-09-7		20 d	15 °C	Oncorhynchus mykiss	
rosin 8050-09-7		20 d	15 °C	Oncorhynchus mykiss	
rosin 8050-09-7		20 d	15 °C	Oncorhynchus mykiss	
rosin 8050-09-7		20 d	15 °C	Oncorhynchus mykiss	
rosin 8050-09-7		20 d	15 °C	Oncorhynchus mykiss	
rosin 8050-09-7		20 d	15 °C	Oncorhynchus mykiss	
rosin 8050-09-7		20 d	15 °C	Oncorhynchus mykiss	
rosin 8050-09-7		20 d	15 °C	Oncorhynchus mykiss	
rosin 8050-09-7		20 d	15 °C	Oncorhynchus mykiss	
2,6-Di-tert-butyl-p-cresol 128-37-0		28 d	25 °C	Cyprinus carpio	
2,6-Di-tert-butyl-p-cresol 128-37-0	330 - 1,800	56 d		Cyprinus carpio	OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)
2,6-Di-tert-butyl-p-cresol 128-37-0		28 d	25 °C	Cyprinus carpio	
2,6-Di-tert-butyl-p-cresol 128-37-0		56 d	25 °C	Cyprinus carpio	
2,6-Di-tert-butyl-p-cresol 128-37-0		56 d	25 °C	Cyprinus carpio	

Mobility in soil:

Hazardous components CAS-No.	LogPow	Temperature	Method
cyclohexane 110-82-7	3.44	25 °C	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)
acetone 67-64-1	-0.24		OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
rosin 8050-09-7	> 3 - 6.2		OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
2,6-Di-tert-butyl-p-cresol 128-37-0	5.1		OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

Endocrine disrupting properties

No data available.

Other adverse effects
Not available.

13. Disposal considerations

Product disposal: Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages: After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

14. Transport information

Road transport CN_DG:

Class:	3
Packing group:	II
Classification code:	
Hazard ident. number:	
UN no.:	1133
Label:	3
Technical name:	ADHESIVES

Marine transport IMDG:

Class:	3
Packing group:	II
UN no.:	1133
Label:	3
EmS:	F-E ,S-D
Seawater pollutant:	Marine pollutant
Proper shipping name:	ADHESIVES (Cyclohexane)

Air transport IATA:

Class:	3
Packing group:	II
Packaging instructions (passenger):	353
Packaging instructions (cargo):	364
UN no.:	1133
Label:	3
Proper shipping name:	Adhesives

Notice For Transportation: Transport according to local and national regulations. Ensure containers will not leak, collapse, or being damaged when transported. DO NOT transport with incompatible materials. Transportation vehicle should be equipped with right fire-fighting equipment in case of emergency. Avoid solarization, drenched and high temperature when transported.

15. Regulatory information

The following laws and regulations lay down provisions in terms of chemicals safety use, storage, transportation, loading/ unloading, classification as well as symbol.

"Law of the People's Republic of China on Work Safety".

Law of the People's Republic of China on the Prevention and Treatment of Occupational Diseases".

"Law of the People's Republic of China on environmental protection".

"Regulation on the Safety Management of Hazardous Chemicals".

"Regulations on License to Work Safety".

China Inventory of Existing Chemicals: All components are listed or are exempt from Inventory of Existing Chemical Substances in China.

16. Other information

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Disclaimer:

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Others:

The full text of all abbreviations indicated by codes in this safety data sheet section 3 are as follows:

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H303 May be harmful if swallowed.
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.
H320 Causes eye irritation.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.