



## Safety Data Sheet

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LOCTITE MR 5009 CAN1PTEN

SDS No. : 153789

V001.8

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### Section 1. Identification of the substance/preparation and of the company/undertaking

**Product name:**

LOCTITE MR 5009 CAN1PTEN

**Other means of identification:**

LOCTITE MR 5009 CAN1PTEN

**Product code:**

IDH1540591

**Recommended use of the chemical and restrictions on use**

**Intended use:**

Sealant

**Manufacturer/Importer/Distributor Representative Company**

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**E-mail address of person responsible for Safety Data Sheet:**

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**Emergency Telephone for Chemical Accidents:**

FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call: +662 209 8008

### Section 2. Hazards identification

**GHS Classification:**

<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Target organ</u>
Flammable liquids	Category 2	
Skin corrosion/irritation	Category 2	
Serious eye damage/eye irritation	Category 2	
Skin sensitizer	Category 1	
Toxic to reproduction	Category 2	
Specific target organ toxicity - single exposure	Category 3	Central nervous system
Specific target organ toxicity - repeated exposure	Category 2	Nervous system
Aspiration hazard	Category 1	
Chronic hazards to the aquatic environment	Category 3	

**GHS label elements:**

**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.  
H361 Suspected of damaging fertility or the unborn child.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H412 Harmful to aquatic life with long lasting effects.

**Precaution:**

**Prevention:**

P201 Obtain special instructions before use.  
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.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/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.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
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.

**Storage:**

P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P403+P235 Store in a well-ventilated place. Keep cool.

**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.

**Section 3. Composition / information on ingredients**

**Substance or Mixture:**

Mixture

**Declaration of hazardous chemical:**

Hazard component CAS-No.	Content	GHS Classification
acetone 67-64-1	30- 60 %	Flammable liquids 2 H225 Serious eye damage/eye irritation 2A H319 Specific target organ toxicity - single exposure 3 H336
Colophony methyl ester 68186-14-1	10- 30 %	Acute hazards to the aquatic environment 3 H402 Chronic hazards to the aquatic environment 3 H412
rosin 8050-09-7	10- 30 %	Acute toxicity 5; Oral H303 Skin sensitizer 1 H317
n-Hexane 110-54-3	10- 30 %	Flammable liquids 2 H225 Skin corrosion/irritation 2 H315 Toxic to reproduction 2 H361 Specific target organ toxicity - single exposure 3 H336 Specific target organ toxicity - repeated exposure 1 H372 Aspiration hazard 1 H304 Acute hazards to the aquatic environment 2 H401 Chronic hazards to the aquatic environment 2 H411
Methylcyclopentane 96-37-7	1- 10 %	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 2 H401 Chronic hazards to the aquatic environment 2 H411
n-Heptane 142-82-5	0.1- 1 %	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 1 H410

**Section 4. First aid measures****Inhalation:**

Move to fresh air. If symptoms persist, seek medical advice.

**Skin contact:**

Rinse with running water and soap.  
Seek medical advice.

**Eye contact:**

Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

**Ingestion:**

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

**Indication of immediate medical attention and special treatment needed:**

See section: Description of first aid measures

Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary oedema.

Seek medical attention from a specialist.

Do not induce vomiting.

## Section 5. Fire fighting measures

**Suitable extinguishing media:**

Carbon dioxide, foam, powder

**Specific hazards arising from the chemical:**

Vapours may accumulate in low or confined areas, travel considerable distance to source of ignition, and flash back.

**Special protection equipment and precautions for firefighters:**

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

**Hazardous combustion products:**

Oxides of carbon.

**Additional fire fighting advice:**

In case of fire, keep containers cool with water spray.

## Section 6. Accidental release measures

**Personal precautions:**

Avoid skin and eye contact.

**Environmental precautions:**

Do not let product enter drains.

**Clean-up methods:**

Wipe up using absorbent material.

Store in a partly filled, closed container until disposal.

## Section 7. Handling and storage

**Handling:**

Use only in well-ventilated areas.

Avoid skin and eye contact.

Keep away from sources of ignition - no smoking.

**Storage:**

Store in a cool, well-ventilated place.

Do not expose to direct heat.

**Section 8. Exposure controls / personal protection****Components with specific control parameters for workplace:**

ACETONE 67-64-1	<b>Value type</b>	Time Weighted Average (TWA):
	<b>ppm</b>	250
	<b>Remarks</b>	ACGIH
ACETONE 67-64-1	<b>Value type</b>	Time Weighted Average (TWA):
	<b>ppm</b>	1,000
	<b>Remarks</b>	TH OEL
ACETONE 67-64-1	<b>Value type</b>	Short Term Exposure Limit (STEL):
	<b>ppm</b>	500
	<b>Remarks</b>	ACGIH
N-HEXANE 110-54-3	<b>Value type</b>	Time Weighted Average (TWA):
	<b>ppm</b>	50
	<b>Remarks</b>	ACGIH
N-HEXANE 110-54-3	<b>Value type</b>	Time Weighted Average (TWA):
	<b>ppm</b>	500
	<b>Remarks</b>	TH OEL
N-HEXANE 110-54-3	<b>Value type</b>	Skin designation:
	<b>Remarks</b>	ACGIH Danger of cutaneous absorption
HEPTANE, ALL ISOMERS 142-82-5	<b>Value type</b>	Time Weighted Average (TWA):
	<b>ppm</b>	400
	<b>Remarks</b>	ACGIH
HEPTANE (N-HEPTANE) 142-82-5	<b>Value type</b>	Time Weighted Average (TWA):
	<b>ppm</b>	500
	<b>Remarks</b>	TH OEL
HEPTANE, ALL ISOMERS 142-82-5	<b>Value type</b>	Short Term Exposure Limit (STEL):
	<b>ppm</b>	500
	<b>Remarks</b>	ACGIH

**Respiratory protection:**

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area

Ensure adequate ventilation.

Filter type: A (EN 14387)

**Hand protection:**

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR;  $\geq 0.4$  mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR;  $\geq 0.4$  mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

**Eye protection:**

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.

Protective eye equipment should conform to EN166.

**Body protection:**

Wear suitable protective clothing.

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

**Engineering controls:**

Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

**General protection and hygiene measures:**

The workplace should be equipped with an emergency shower and eye-rinsing facility.

**Hygienic measures:**

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

Take off contaminated clothing and wash before reuse.

## Section 9. Physical and chemical properties

<b>Appearance:</b>	red liquid
<b>Odor:</b>	Acetone
<b>Odor threshold (CA):</b>	No data available.
<b>pH:</b>	Not applicable
<b>Melting point / freezing point:</b>	Not applicable, Product is a liquid
<b>Specific gravity:</b>	0.872
<b>Boiling point:</b>	57 °C (134.6 °F) Approximately
<b>Flash point:</b> (Closed cup)	0 °C (32 °F)
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Lower explosive limit:</b>	2 % (V)
<b>Upper explosive limit:</b>	13 % (V)
<b>Vapor pressure:</b> (; 37 °C (98.6 °F))	520 mbar
<b>Vapor density:</b>	2
<b>Density:</b>	0.872 g/cm <sup>3</sup>
<b>Solubility:</b>	No data available.
<b>Partition coefficient: n-octanol/water:</b>	No data available.
<b>Auto ignition:</b>	Not available.
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	No data available.
<b>VOC content:</b>	No data available.

## Section 10. Stability and reactivity

**Reactivity/Incompatible materials:**

Strong oxidizing agents.

**Chemical stability:**

Stable under recommended storage conditions.

**Conditions to avoid:**

Stable under normal conditions of storage and use.

Avoid heating.

**Hazardous decomposition products:**

carbon oxides.

## Section 11. Toxicological information

Symptoms of Overexposure: EYE: Irritation, conjunctivitis.  
SKIN: Rash, Urticaria.  
RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.  
ASPIRATION: Coughing, shortness of breath, nausea. Delayed effect: bronchopneumonia or pulmonary oedema  
SKIN: Redness, inflammation.  
Vapors may cause drowsiness and dizziness.

### Acute oral toxicity:

acetone 67-64-1	Value type	LD50
	Value	5,800 mg/kg
	Species	rat
	Method	not specified
Colophony methyl ester 68186-14-1	Value type	LD50
	Value	> 14,000 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
rosin 8050-09-7	Value type	LD50
	Value	2,800 mg/kg
	Species	rat
	Method	not specified
n-Hexane 110-54-3	Value type	LD50
	Value	16,000 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
Methylcyclopentane 96-37-7	Value type	LD50
	Value	16,000 mg/kg
	Species	rat
	Method	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
n-Heptane 142-82-5	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rat
	Method	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)

**Acute inhalative toxicity:**

acetone 67-64-1	Value type	LC50
	Value	76 mg/l
	Exposure time	4 h
	Species	rat
	Method	not specified
n-Hexane 110-54-3	Value type	LC50
	Value	> 31.86 mg/l
	Exposure time	4 h
	Species	rat
	Method	not specified
n-Heptane 142-82-5	Value type	LC50
	Value	> 29.29 mg/l
	Exposure time	4 h
	Species	rat
	Method	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)

**Acute dermal toxicity:**

acetone 67-64-1	Value type	LD50
	Value	> 15,688 mg/kg
	Species	rabbit
	Method	Draize Test
Colophony methyl ester 68186-14-1	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
rosin 8050-09-7	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
n-Hexane 110-54-3	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rabbit
	Method	not specified
n-Heptane 142-82-5	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rabbit
	Method	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)

**Skin corrosion/irritation:**

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)
n-Hexane 110-54-3	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
n-Heptane 142-82-5	Result	irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)



**Serious eye damage/irritation:**

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)
n-Hexane 110-54-3	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	not specified
n-Heptane 142-82-5	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

**Respiratory or skin sensitization:**

acetone 67-64-1	Result	not sensitising
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	not specified
n-Hexane 110-54-3	Result	not sensitising
	Test type	Mouse local lymphnode assay (LLNA)
	Species	mouse
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
n-Heptane 142-82-5	Result	not sensitising
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)

**Germ cell mutagenicity:**

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
rosin 8050-09-7	Method	not specified
	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
n-Hexane 110-54-3	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
n-Hexane 110-54-3	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
	Result	negative
	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
n-Hexane 110-54-3	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
	Result	negative
	Type of study / Route of administration	inhalation: vapour
	Metabolic activation / Exposure time	
n-Hexane 110-54-3	Species	mouse
	Method	not specified
	Result	negative
	Type of study / Route of administration	inhalation: vapour
n-Hexane 110-54-3	Metabolic activation / Exposure time	
	Species	rat
	Method	not specified
	Result	negative
n-Heptane 142-82-5	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)
	Result	negative
n-Heptane 142-82-5	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	not applicable
	Method	OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
	Result	negative

**Repeated dose toxicity:**

acetone 67-64-1	Result	NOAEL=900 mg/kg
	Route of application	oral: drinking water
	Exposure time / Frequency of treatment	13 wdaily
	Species	rat
	Method	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
n-Hexane 110-54-3	Result	NOAEL=568 mg/kg
	Route of application	oral: gavage
	Exposure time / Frequency of treatment	90 d5 d/w
	Species	rat
	Method	not specified
n-Hexane 110-54-3	Result	NOAEL=500 ppm
	Route of application	inhalation: vapour
	Exposure time / Frequency of treatment	90 d6 h/d; 5 d/w
	Species	mouse
	Method	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
n-Heptane 142-82-5	Result	
	Route of application	inhalation: vapour
	Exposure time / Frequency of treatment	16 weeks12 hours/day, 7 days/week
	Species	rat
	Method	

**Section 12. Ecological information****General ecological information:**

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

**Ecotoxicity:**

H412 Harmful to aquatic life with long lasting effects.

**Toxicity:**

acetone 67-64-1	Value type	LC50
	Value	8,120 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Pimephales promelas
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
acetone 67-64-1	Value type	EC50
	Value	8,800 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia pulex
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
acetone 67-64-1	Value type	NOEC
	Value	530 mg/l
	Acute Toxicity Study	Algae
	Exposure time	8 d
	Species	Microcystis aeruginosa
	Method	DIN 38412-09
acetone 67-64-1	Value type	EC10
	Value	1,000 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	30 min
	Species	Pseudomonas putida
	Method	DIN 38412, part 27 (Bacterial oxygen consumption test)
Colophony methyl ester 68186-14-1	Value type	LL50
	Value	> 1,000 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Pimephales promelas
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)

Colophony methyl ester 68186-14-1	Value type	EL50
	Value	27 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Colophony methyl ester 68186-14-1	Value type	EL50
	Value	> 1,000 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
rosin 8050-09-7	Value type	LC50
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Pimephales promelas
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
rosin 8050-09-7	Value type	EL50
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
rosin 8050-09-7	Value type	EL50
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOELR
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
rosin 8050-09-7	Value type	EC20
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	activated sludge of a predominantly domestic sewage
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
n-Hexane 110-54-3	Value type	LC50
	Value	> 1 - 10 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	not specified
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
n-Hexane 110-54-3	Value type	EC50
	Value	2.1 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
n-Hexane 110-54-3	Value type	EC50
	Value	> 1 - 10 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	not specified
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
n-Hexane 110-54-3	Value type	EC50
	Value	> 1 - 10 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	not specified
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Methylcyclopentane 96-37-7	Value type	EC50
	Value	4.45 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	other:

Methylcyclopentane 96-37-7	Method	QSAR (Quantitative Structure Activity Relationship)
	Value type	EC50
	Value	5.048 mg/l
	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	other:
n-Heptane 142-82-5	Method	QSAR (Quantitative Structure Activity Relationship)
	Value type	LC50
	Value	> 220 - 270 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Leuciscus idus
n-Heptane 142-82-5	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
	Value type	EC50
	Value	1.5 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	other guideline:

**Persistence and degradability:**

acetone 67-64-1	Result	readily biodegradable
	Route of application	aerobic
	Degradability	81 - 92 %
	Method	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)
Colophony methyl ester 68186-14-1	Result	not readily biodegradable.
	Route of application	aerobic
	Degradability	50.7 %
	Method	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
rosin 8050-09-7	Result	readily biodegradable
	Route of application	aerobic
	Degradability	71 %
	Method	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
n-Hexane 110-54-3	Result	readily biodegradable
	Route of application	aerobic
	Degradability	81 %
	Method	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Methylcyclopentane 96-37-7	Result	not readily biodegradable.
	Route of application	aerobic
	Degradability	0 %
	Method	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
n-Heptane 142-82-5	Result	readily biodegradable
	Route of application	aerobic
	Degradability	70 %
	Method	other guideline:

**Bioaccumulative potential / Mobility in soil:**

acetone 67-64-1	LogPow	-0.24
	Temperature	
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Colophony methyl ester 68186-14-1	LogPow	4.9 - 7.6
	Temperature	
	Method	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
rosin 8050-09-7	LogPow	> 3 - 6.2
	Temperature	
	Method	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
n-Hexane 110-54-3	LogPow	4
	Temperature	20 °C
	Method	other guideline:
Methylcyclopentane 96-37-7	LogPow	3.37
	Temperature	20 °C
	Method	other guideline:

n-Heptane 142-82-5	Bioconcentration factor (BCF)	552
	Exposure time	
	Species	calculation
	Temperature	
	Method	QSAR (Quantitative Structure Activity Relationship)
n-Heptane 142-82-5	LogPow	4.66
	Temperature	
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

### Section 13. Disposal considerations

#### Product

**Method of disposal:**

Dispose of in accordance with local and national regulations.

#### Packaging

**Disposal of uncleaned packages:**

Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

### Section 14. Transport information

**Road transport ADR:**

Class:	3
Packing group:	II
Classification code:	F1
Hazard ident. number:	33
UN no.:	1133
Label:	3
Technical name:	ADHESIVES
Additional information:	Special provision 640C

**Railroad transport RID:**

Class:	3
Packing group:	II
Classification code:	F1
Hazard ident. number:	33
UN no.:	1133
Label:	3
Technical name:	ADHESIVES
Additional information:	Special provision 640C

**Inland water transport ADN:**

Class:	3
Packing group:	II
Classification code:	F1
Hazard ident. number:	33
UN no.:	1133
Label:	3
Technical name:	ADHESIVES
Additional information:	Special provision 640C

**Marine transport IMDG:**

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

**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

<b>Section 15. Regulatory information</b>
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**Regulatory Information:**

Ministry of Industry Notice. The system to classify and communicate the hazard of hazardous material, BE. 2555

**Global inventory status:**

Regulatory list	Notification
TSCA	yes
DSL	yes
KECI (KR)	yes
ENCS (JP)	yes
ISHL (JP)	yes
AIIC	yes
NZIOC	yes
IECSC	yes
TCSI	yes
PICCS (PH)	yes
EINECS	yes

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## Section 16. Other information

**Disclaimer:**

This Safety Data Sheet has been generated based on Ministry of Industry Notice. The system to classify and communicate the hazard of hazardous material, BE. 2555 only. No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance.

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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