

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

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SDS No.: 153558 V003.0

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LOCTITE SF 7455

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

1.1. Product identifier

LOCTITE SF 7455

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

Intended use:

Primer, containing solvents

1.3. Details of the supplier of the safety data sheet

Henkel AG & Co. KGaA

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SDSinfo.Adhesive@henkel.com

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

1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Flammable liquids Category 2

H225 Highly flammable liquid and vapour.

Skin irritation Category 2

H315 Causes skin irritation.

Specific target organ toxicity - single exposure Category 3

H336 May cause drowsiness or dizziness.

Target organ: Central nervous system

Aspiration hazard Category 1

H304 May be fatal if swallowed and enters airways.

Chronic hazards to the aquatic environment Category 2

H411 Toxic to aquatic life with long lasting effects.

2.2. Label elements

Label elements (CLP):

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Hazard pictogram:



Contains Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Signal word: Danger

Hazard statement: H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

Supplemental information Contains: N-tert-Butyl-2-benzothiazolesulfenamide May produce an allergic reaction.

Precautionary statement:

Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P261 Avoid breathing vapors.

P273 Avoid release to the environment.

Precautionary statement:

Response

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P331 Do NOT induce vomiting.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

Precautionary statement:

Storage

P403+P235 Store in a well-ventilated place. Keep cool.

2.3. Other hazards

None if used properly.

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

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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

Hazardous components CAS-No. EC Number REACH-Reg No.	Concentration	Classification	Specific Conc. Limits, M- factors and ATEs	Add. Information
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 64742-49-0 927-510-4 01-2119475515-33	50- 100 %	Aquatic Chronic 2, H411 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Flam. Liq. 2, H225 STOT SE 3, H336	inhalation:ATE = 23,31 mg/l;vapour	
cyclohexane 110-82-7 203-806-2 01-2119463273-41	5- < 10 %	Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Flam. Liq. 2, H225 Skin Irrit. 2, H315	M acute = 1 M chronic = 1	EU OEL
n-Hexane 110-54-3 203-777-6 01-2119480412-44	0,1-< 1 %	Flam. Liq. 2, H225 Repr. 2, H361f Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411	STOT RE 2; H373; C >= 5 %	EU OEL
N-tert-Butyl-2- benzothiazolesulfenamide 95-31-8 202-409-1 01-2119492625-29	0,1-< 1 %	Skin Sens. 1, H317 Aquatic Chronic 1, H410 Aquatic Acute 1, H400	M acute = 10 M chronic = 1	

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

Inhalation:

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

Skin contact:

Rinse with running water and soap.

Obtain medical attention if irritation persists.

Eve contact

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

Ingestion:

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

After ingestion or vomit: danger of product entering the lung.

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

SKIN: Redness, inflammation.

Vapors may cause drowsiness and dizziness.

Prolonged or repeated contact may cause eye irritation.

ASPIRATION: Coughing, shortness of breath, nausea. Delayed effect: bronchopneumonia or pulmonary oedema

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4.3. Indication of any immediate medical attention and special treatment needed

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

Do not induce vomiting.

Seek medical attention from a specialist.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

water, carbon dioxide, foam, powder

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), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.

5.3. Advice for firefighters

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

Additional information:

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Avoid contact with skin and eyes.

Wear protective equipment.

Keep away from sources of ignition.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

For small spills wipe up with paper towel and place in container for disposal.

For large spills absorb onto inert absorbent material and place in sealed container for disposal.

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

Avoid skin and eye contact.

See advice in section 8

Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

Good industrial hygiene practices should be observed.

7.2. Conditions for safe storage, including any incompatibilities

Ensure good ventilation/extraction.

Store in a cool, dry place.

Do not store near sources of heat or ignition, or reactive materials.

Refer to Technical Data Sheet

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7.3. Specific end use(s) Primer, containing solvents

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Germany

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Cyclohexane 110-82-7 [CYCLOHEXANE]	200	700	Time Weighted Average (TWA):	Indicative	ECTLV
Cyclohexane 110-82-7	200	700	Exposure limit(s):	4	TRGS 900
Cyclohexane 110-82-7			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
n-Hexane 110-54-3 [N-HEXANE]	20	72	Time Weighted Average (TWA):	Indicative	ECTLV
n-Hexane 110-54-3	50	180	Exposure limit(s):	8 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
n-Hexane			Short Term Exposure		TRGS 900
110-54-3		1	Classification:	resorptive effect.	

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Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment						Remarks	
	P	F	mg/l	ppm	mg/kg	others		
cyclohexane 110-82-7	aqua (freshwater)		0,207 mg/l					
cyclohexane 110-82-7	aqua (marine water)		0,207 mg/l					
cyclohexane 110-82-7	aqua (intermittent releases)		0,207 mg/l					
cyclohexane 110-82-7	sediment (freshwater)				16,68 mg/kg			
cyclohexane 110-82-7	sediment (marine water)				16,68 mg/kg			
cyclohexane 110-82-7	Soil				3,38 mg/kg			
cyclohexane 110-82-7	sewage treatment plant (STP)		3,24 mg/l					
cyclohexane 110-82-7	Air							
cyclohexane 110-82-7	Predator						no potential for bioaccumulation	
N-tert-Butylbenzothiazole-2-sulphenamide 95-31-8	aqua (freshwater)		0,0023 mg/l					
N-tert-Butylbenzothiazole-2-sulphenamide 95-31-8	Freshwater - intermittent		0,00071 mg/l					
N-tert-Butylbenzothiazole-2-sulphenamide 95-31-8	aqua (marine water)		0,00023 mg/l					
N-tert-Butylbenzothiazole-2-sulphenamide 95-31-8	sewage treatment plant (STP)		100 mg/l					
N-tert-Butylbenzothiazole-2-sulphenamide 95-31-8	sediment (freshwater)				0,08 mg/kg			
N-tert-Butylbenzothiazole-2-sulphenamide 95-31-8	sediment (marine water)				0,008 mg/kg			
N-tert-Butylbenzothiazole-2-sulphenamide 95-31-8	Soil				0,796 mg/kg			

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Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Hydrocarbons, C7, n-alkanes, isoalkanes,	Workers	dermal	Long term		300 mg/kg	
cyclics 64742-49-0			exposure - systemic effects			
Hydrocarbons, C7, n-alkanes, isoalkanes,	Workers	inhalation	Long term		2085 mg/m3	
cyclics 64742-49-0			exposure - systemic effects			
Hydrocarbons, C7, n-alkanes, isoalkanes,	General	dermal	Long term		149 mg/kg	
cyclics	population		exposure -			
64742-49-0 Hydrocarbons, C7, n-alkanes, isoalkanes,	General	inhalation	systemic effects Long term		447 mg/m3	
cyclics	population		exposure -		8	
64742-49-0 Hydrocarbons, C7, n-alkanes, isoalkanes,	General	oral	systemic effects Long term		149 mg/kg	
cyclics	population	orar	exposure -		147 mg/kg	
64742-49-0 cyclohexane	Workers	inhalation	systemic effects Acute/short term		700 mg/m3	no potential for
110-82-7	WOIKEIS	Illitatation	exposure - local		700 Hig/III3	bioaccumulation
	*** 1		effects		700 / 2	1.6
cyclohexane 110-82-7	Workers	inhalation	Acute/short term exposure -		700 mg/m3	no potential for bioaccumulation
			systemic effects			
cyclohexane 110-82-7	Workers	inhalation	Long term exposure -		700 mg/m3	no potential for bioaccumulation
110 02 7			systemic effects			bioaccumulation
cyclohexane	Workers	inhalation	Long term		700 mg/m3	no potential for
110-82-7			exposure - local effects			bioaccumulation
cyclohexane	Workers	dermal	Long term		2016 mg/kg	no potential for
110-82-7			exposure - systemic effects			bioaccumulation
cyclohexane	General	inhalation	Acute/short term		412 mg/m3	no potential for
110-82-7	population		exposure - systemic effects			bioaccumulation
cyclohexane	General	inhalation	Acute/short term		412 mg/m3	no potential for
110-82-7	population		exposure - local effects			bioaccumulation
cyclohexane	General	dermal	Long term		1186 mg/kg	no potential for
110-82-7	population		exposure - systemic effects			bioaccumulation
cyclohexane	General	oral	Long term		59,4 mg/kg	no potential for
110-82-7	population		exposure -			bioaccumulation
cyclohexane	General	inhalation	systemic effects Long term		206 mg/m3	no potential for
110-82-7	population		exposure -			bioaccumulation
cyclohexane	General	inhalation	systemic effects Long term		206 mg/m3	no potential for
110-82-7	population	Illianation	exposure - local		200 mg/m3	bioaccumulation
n-Hexane	General	inhalation	effects Long term		16 mg/m3	
110-54-3	population	Illiaration	exposure -		10 111g/1113	
11	337 1	1 1	systemic effects		11 /	
n-Hexane 110-54-3	Workers	dermal	Long term exposure -		11 mg/kg	
			systemic effects			
n-Hexane 110-54-3	General population	dermal	Long term exposure -		5,3 mg/kg	
			systemic effects			
n-Hexane 110-54-3	Workers	inhalation	Long term exposure -		75 mg/m3	
110.04-3			systemic effects			
n-Hexane	General	oral	Long term		4 mg/kg	
110-54-3	population		exposure - systemic effects			
N-tert-Butylbenzothiazole-2-sulphenamide	Workers	inhalation	Long term		14 mg/m3	
95-31-8			exposure - systemic effects			
N-tert-Butylbenzothiazole-2-sulphenamide	Workers	inhalation	Acute/short term		14 mg/m3	
95-31-8			exposure -			

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1				1	
N-tert-Butylbenzothiazole-2-sulphenamide 95-31-8	Workers	inhalation	Long term exposure - local effects	14 mg/m3	
N-tert-Butylbenzothiazole-2-sulphenamide 95-31-8	Workers	inhalation	Acute/short term exposure - local effects	14 mg/m3	
N-tert-Butylbenzothiazole-2-sulphenamide 95-31-8	Workers	dermal	Long term exposure - systemic effects	67 mg/kg	
N-tert-Butylbenzothiazole-2-sulphenamide 95-31-8	Workers	dermal	Acute/short term exposure - systemic effects	534 mg/kg	
N-tert-Butylbenzothiazole-2-sulphenamide 95-31-8	General population	inhalation	Long term exposure - systemic effects	3,5 mg/m3	
N-tert-Butylbenzothiazole-2-sulphenamide 95-31-8	General population	inhalation	Acute/short term exposure - systemic effects	3,5 mg/m3	
N-tert-Butylbenzothiazole-2-sulphenamide 95-31-8	General population	inhalation	Long term exposure - local effects	3,5 mg/m3	
N-tert-Butylbenzothiazole-2-sulphenamide 95-31-8	General population	inhalation	Acute/short term exposure - local effects	3,5 mg/m3	
N-tert-Butylbenzothiazole-2-sulphenamide 95-31-8	General population	dermal	Long term exposure - systemic effects	33 mg/kg	
N-tert-Butylbenzothiazole-2-sulphenamide 95-31-8	General population	dermal	Acute/short term exposure - systemic effects	266 mg/kg	
N-tert-Butylbenzothiazole-2-sulphenamide 95-31-8	General population	oral	Long term exposure - systemic effects	1 mg/kg	
N-tert-Butylbenzothiazole-2-sulphenamide 95-31-8	General population	oral	Acute/short term exposure - systemic effects	8 mg/kg	

Biological Exposure Indices:

Ingredient [Regulated substance]	Parameters	Biological specimen	Sampling time	Conc.	Basis of biol. exposure index	 Additional Information
Cyclohexane 110-82-7	1,2- Cyclohexane diol, with hydrolysis	Creatinine in urine	Sampling time period is for long-term exposures, at the end of the shift after several preceding ones./ Sampling time period is at end of exposure or at end of shift.	150 mg/g	DE BGW	
n-Hexane 110-54-3	Hexane-2,5- dione plus 4,5- Dihydroxy-2- hexanone	Urine	Sampling time: End of shift.	5 mg/l	DE BAT	
n-Hexane 110-54-3	Hexane-2,5-dione plus 4,5- Dihydroxy-2-hexanone (with hydrolysis)	Urine	Sampling time: End of shift.	5 mg/l	DE BGW	

8.2. Exposure controls:

Engineering controls: Ensure good ventilation/extraction.

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Respiratory protection:

Ensure adequate ventilation.

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

ventilated area

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; >= 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; >= 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.

Eve 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.

Skin protection:

Wear 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 colourless, Clear Colour Odor Aliphatic Physical state liquid

Melting point Not applicable, Product is a liquid

Solidification temperature -75 °C (-103 °F)

Initial boiling point 96 - 98 °C (204.8 - 208.4 °F)

Flammability Flammable liquid

Explosive limits

1,1 %(V);lower 6,7 %(V); upper

Upper/lower explosion limit

Flash point -4 °C (24.8 °F); Tagliabue closed cup

223 °C (433.4 °F) Auto-ignition temperature

Decomposition temperature Not applicable, Substance/mixture is not self-reactive, no organic

peroxide and does not decompose under foreseen conditions of use

Not applicable, Product is non-soluble (in water).

Viscosity (kinematic) 0.6 mm2/s

(20 °C (68 °F);) (40 °C (104 °F);)

pΗ

Viscosity (kinematic) <= 20,5 mm2/s

Solubility (qualitative)

Not miscible

(20 °C (68 °F); Solvent: Water)

Partition coefficient: n-octanol/water Not applicable Mixture

5,33 kPa

Vapour pressure

(20 °C (68 °F))

Density 0,68 g/cm3 None SDS No.: 153558 LOCTITE SF 7455 Page 10 of 19

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(20 °C (68 °F))

Relative vapour density:

(20 °C)

Particle characteristics

3,4

Not applicable Product is a liquid

9.2. Other information

Other information not applicable for this product

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with strong oxidants.

Acids.

Reducing agents.

Strong bases.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Stable under normal conditions of storage and use.

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

carbon oxides.

Hydrocarbons

nitrogen oxides

Rapid polymerisation may generate excessive heat and pressure.

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.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 64742-49-0	LD50	> 5.840 mg/kg	rat	not specified
cyclohexane 110-82-7	LD50	> 5.000 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
n-Hexane 110-54-3	LD50	16.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
N-tert-Butyl-2- benzothiazolesulfenamide 95-31-8	LD50	6.850 mg/kg	rat	not specified

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Acute dermal toxicity:

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

Hazardous substances	Value	Value	Species	Method
CAS-No.	type			
Hydrocarbons, C7, n-	LD50	> 2.800 mg/kg	rat	other guideline:
alkanes, isoalkanes,				_
cyclics				
64742-49-0				
cyclohexane	LD50	> 2.000 mg/kg	rabbit	equivalent or similar to OECD Guideline 402 (Acute
110-82-7				Dermal Toxicity)
n-Hexane	LD50	> 2.000 mg/kg	rabbit	not specified
110-54-3				_
N-tert-Butyl-2-	LD50	> 7.940 mg/kg	rabbit	not specified
benzothiazolesulfenamide				
95-31-8				

Acute inhalative toxicity:

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

Hazardous substances	Value	Value	Test atmosphere	Exposure	Species	Method
CAS-No.	type			time		
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 64742-49-0	LC50	> 23,3 mg/l	vapour	4 h	rat	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 64742-49-0	Acute toxicity estimate (ATE)	23,31 mg/l	vapour			Expert judgement
cyclohexane 110-82-7	LC50	> 32,880 mg/l	vapour	4 h	rat	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
n-Hexane 110-54-3	LC50	> 31,86 mg/l	vapour	4 h	rat	not specified

Skin corrosion/irritation:

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

Hazardous substances	Result	Exposure	Species	Method
CAS-No.		time		
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 64742-49-0	irritating	4 h	rabbit	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
cyclohexane 110-82-7	irritating		rabbit	Weight of evidence
n-Hexane 110-54-3	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

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

Hazardous substances	Result	Exposure	Species	Method
CAS-No.		time		
Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics 64742-49-0	not irritating		rabbit	FDA Guideline
cyclohexane 110-82-7	slightly irritating		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)
n-Hexane 110-54-3	not irritating		rabbit	not specified

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Respiratory or skin sensitization:

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

Hazardous substances	Result	Test type	Species	Method
CAS-No.				
Hydrocarbons, C7, n-	not sensitising	Guinea pig maximisation	guinea pig	OECD Guideline 406 (Skin Sensitisation)
alkanes, isoalkanes,		test		
cyclics				
64742-49-0				
cyclohexane	not sensitising	Buehler test	guinea pig	equivalent or similar to OECD Guideline
110-82-7				406 (Skin Sensitisation)
n-Hexane	not sensitising	Mouse local lymphnode	mouse	OECD Guideline 429 (Skin Sensitisation:
110-54-3		assay (LLNA)		Local Lymph Node Assay)

Germ cell mutagenicity:

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

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
cyclohexane 110-82-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
cyclohexane 110-82-7	negative	mammalian cell gene mutation assay	with and without		equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
n-Hexane 110-54-3	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
n-Hexane 110-54-3	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
N-tert-Butyl-2- benzothiazolesulfenamide 95-31-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
N-tert-Butyl-2- benzothiazolesulfenamide 95-31-8	ambiguous	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
cyclohexane 110-82-7	negative	inhalation: vapour		rat	equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
n-Hexane 110-54-3	negative	inhalation: vapour		mouse	not specified
n-Hexane 110-54-3	negative	inhalation: vapour		rat	not specified

Carcinogenicity

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

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

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Reproductive toxicity:

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

Hazardous substances	Result / Value	Test type	Route of	Species	Method
CAS-No.			application		
cyclohexane	NOAEL F1 7000 ppm	two-	inhalation:	rat	equivalent or similar to
110-82-7		generation	vapour		OECD Guideline 416 (Two-
		study			Generation Reproduction
		-			Toxicity Study)
n-Hexane	NOAEL P 9000 ppm	Two	inhalation:	rat	OECD Guideline 416 (Two-
110-54-3		generation	vapour		Generation Reproduction
	NOAEL F1 3000 ppm	study			Toxicity Study)
	NOAEL F2 3000 ppm				

STOT-single exposure:

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

Hazardous substances CAS-No.	Assessment	Route of exposure	Target Organs	Remarks
cyclohexane 110-82-7	Category 3 with narcotic effects.			

STOT-repeated exposure:

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

Hazardous substances 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)
n-Hexane 110-54-3	NOAEL 568 mg/kg	oral: gavage	90 d 5 d/w	rat	not specified
n-Hexane 110-54-3	NOAEL 500 ppm	inhalation: vapour	90 d 6 h/d; 5 d/w	mouse	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
N-tert-Butyl-2- benzothiazolesulfenamide 95-31-8	LOAEL >= 200 mg/kg	oral: gavage	daily	rat	not specified

Aspiration hazard:

The mixture is classified based on Viscosity data.

Hazardous substances CAS-No.	Viscosity (kinematic) Value	Temperature	Method	Remarks
cyclohexane 110-82-7	0,41 mm2/s	40 °C	not specified	
n-Hexane 110-54-3	0,45 mm2/s	25 °C	not specified	

11.2 Information on other hazards

not applicable

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SECTION 12: Ecological information

General ecological information:

Do not empty into drains / surface water / ground 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
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 64742-49-0	LL50	8,2 mg/l	96 h	Pimephales promelas	EPA-660 (Methods for Acute Toxicity Tests with Fish, Macroinvertebrates and Amphibians)
cyclohexane 110-82-7	LC50	4,53 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
n-Hexane 110-54-3	LC50	> 1 - 10 mg/l	96 h	not specified	OECD Guideline 203 (Fish, Acute Toxicity Test)
N-tert-Butyl-2- benzothiazolesulfenamide 95-31-8	LC50	1,38 mg/l	96 h	Oryzias latipes	OECD Guideline 203 (Fish, Acute Toxicity Test)

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	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Hydrocarbons, C7, n-alkanes,	EL50	4,5 mg/l	48 h	Daphnia magna	OECD Guideline 202
isoalkanes, cyclics					(Daphnia sp. Acute
64742-49-0					Immobilisation Test)
cyclohexane	EC50	0,9 mg/l	48 h	Daphnia magna	OECD Guideline 202
110-82-7					(Daphnia sp. Acute
					Immobilisation Test)
n-Hexane	EC50	2,1 mg/l	48 h	Daphnia magna	OECD Guideline 202
110-54-3					(Daphnia sp. Acute
					Immobilisation Test)
N-tert-Butyl-2-	EC50	1,3 mg/l	48 h	Daphnia magna	OECD Guideline 202
benzothiazolesulfenamide					(Daphnia sp. Acute
95-31-8					Immobilisation Test)

Chronic toxicity (aquatic invertebrates):

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

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 64742-49-0	NOELR	2,6 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
N-tert-Butyl-2- benzothiazolesulfenamide 95-31-8	NOEC	0,08 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

Toxicity (Algae):

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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
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 64742-49-0	EL50	3,1 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 64742-49-0	NOELR	0,5 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
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)
n-Hexane 110-54-3	EC50	> 1 - 10 mg/l	72 h	not specified	OECD Guideline 201 (Alga, Growth Inhibition Test)
N-tert-Butyl-2- benzothiazolesulfenamide 95-31-8	EC50	0,071 mg/l	72 h	Scenedesmus capricornutum	OECD Guideline 201 (Alga, Growth Inhibition Test)
N-tert-Butyl-2- benzothiazolesulfenamide 95-31-8	NOEC	0,023 mg/l	72 h	Scenedesmus capricornutum	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	Value	Value	Exposure time	Species	Method
CAS-No.	type				
cyclohexane 110-82-7	IC50	29 mg/l	15 h	other:	not specified
n-Hexane 110-54-3	EC50	> 1 - 10 mg/l	3 h	not specified	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

12.2. Persistence and degradability

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
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 64742-49-0	readily biodegradable	aerobic	77,05 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
cyclohexane 110-82-7	readily biodegradable	aerobic	77 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
n-Hexane 110-54-3	readily biodegradable	aerobic	81 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
N-tert-Butyl-2- benzothiazolesulfenamide 95-31-8	not readily biodegradable.	aerobic	0 %	28 d	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (1))

12.3. Bioaccumulative potential

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

Hazardous substances	Bioconcentratio	Exposure time	Temperature	Species	Method
CAS-No.	n factor (BCF)				
cyclohexane	167			Pimephales	QSAR (Quantitative Structure
110-82-7				promelas	Activity Relationship)

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12.4. Mobility in soil

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

Hazardous substances CAS-No.	LogPow	Temperature	Method
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 64742-49-0	4,66		EU Method A.8 (Partition Coefficient)
cyclohexane 110-82-7	3,44	25 °C	QSAR (Quantitative Structure Activity Relationship)
n-Hexane 110-54-3	4	20 °C	other guideline:
N-tert-Butyl-2- benzothiazolesulfenamide 95-31-8	3,36	25 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)

12.5. Results of PBT and vPvB assessment

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

Hazardous substances CAS-No.	PBT / vPvB
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 64742-49-0	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
cyclohexane 110-82-7	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
n-Hexane 110-54-3	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
N-tert-Butyl-2-benzothiazolesulfenamide 95-31-8	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6. Endocrine disrupting properties

not applicable

12.7. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

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

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.

Waste code

08 04 09* waste adhesives and sealants containing organic solvents and other dangerous substances

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

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SECTION 14: Transport information

14.1. UN number or ID number

ADR	1206
RID	1206
ADN	1206
IMDG	1206
IATA	1206

14.2. UN proper shipping name

ADR	HEPTANES (solution)
RID	HEPTANES (solution)
ADN	HEPTANES (solution)
IMDG	HEPTANES (solution)
IATA	Heptanes (solution)

14.3. Transport hazard class(es)

ADR	3
RID	3
ADN	3
IMDG	3
IATA	3

14.4. Packing group

ADR	II
RID	II
ADN	II
IMDG	II
IATA	II

14.5. Environmental hazards

ADR	Environmentally Hazardous
RID	Environmentally Hazardous
ADN	Environmentally Hazardous

IMDG Marine Pollutant 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

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009): Prior Informed Consent (PIC) (Regulation (EU) No 649/2012): Persistent organic pollutants (Regulation (EU) 2019/1021):

Not applicable Not applicable Not applicable SDS No.: 153558 LOCTITE SF 7455 Page 18 of 19

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VOC content 100 % (2010/75/EC)

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

National regulations/information (Germany):

WGK: WGK 2: significantly water endangering (Ordinance on facilities for handling

substances that are hazardous to water (AwSV)) Classification according to AwSV, Annex 1 (5.2)

Storage class according to TRGS 510:

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text

of all abbreviations indicated by codes in this safety data sheet are as follows:

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

H361f Suspected of damaging fertility.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

ED: Substance identified as having endocrine disrupting properties

EU OEL:

Substance with a Union workplace exposure limit

EU EXPLD 1:

Substance listed in Annex I, Reg (EC) No. 2019/1148

EU EXPLD 2

Substance listed in Annex II, Reg (EC) No. 2019/1148

SVHC:

Substance of very high concern (REACH Candidate List)

PBT:

Substance fulfilling persistent, bioaccumulative and toxic criteria

PBT/vPvB: Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very

bioaccumulative criteria

vPvB: Substance fulfilling very persistent and very bioaccumulative criteria

Further information:

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