

Tangit All Pressure

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

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SDS No.: 41764

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

1.1. Product identifier

Tangit All Pressure

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

Intended use: Pipe adhesive

1.3. Details of the supplier of the safety data sheet

Henkel AG & Co. KGaA

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Flammable liquids Category 2

H225 Highly flammable liquid and vapor.

Skin irritation Category 2

H315 Causes skin irritation.

Serious eye damage Category 1

H318 Causes serious eye damage.

Carcinogenicity Category 2

H351 Suspected of causing cancer.

Specific target organ toxicity - single exposure Category 3

H335 May cause respiratory irritation.

Target organ: respiratory tract irritation

Specific target organ toxicity - single exposure Category 3

H336 May cause drowsiness or dizziness. Target organ: Central nervous system

2.2. Label elements

Label elements (CLP):

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Hazard pictogram:



Contains tetrahy drofuran

Butanone

Cyclohexanone

Signal word: Danger

Hazard statement: H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.

Precautionary statement: P102 Keep out of reach of children.

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

No smoking.

P260 Do not breathe mist/vapours.

P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor.

P501 Dispose of contents/container in accordance with national regulation.

2.3. Other hazards

Solvents contained in the product evaporate during processing and their vapors can form explosive/highly inflammable air/vapor mixtures.

Pregnant women should absolutely avoid inhalation and skin contact.

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

Following substances are present in a concentration >= 0.1% and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in concentration \geq the concentration limit 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
Butanone 78-93-3 201-159-0 01-2119457290-43	20- 40 %	STOT SE 3, H336 Eye Irrit. 2, H319 Flam. Liq. 2, H225		EU OEL
tetrahydrofuran 109-99-9 203-726-8 01-2119444314-46	20- 30 %	STOT SE 3, H336 Flam. Liq. 2, H225 STOT SE 3, H335 Eye Irrit. 2, H319 Carc. 2, H351 Acute Tox. 4, Oral, H302	Eye Irrit. 2;H319; C>= 25 % STOT SE 3; H335; C>= 25 % ===== inhalation:ATE=>14,7 mg/l;vapour	EU OEL
Cyclohexanone 108-94-1 203-631-1 01-2119453616-35	10- 25 %	Flam. Liq. 3, H226 Acute Tox. 4, Oral, H302 Acute Tox. 4, Demal, H312 Acute Tox. 4, Inhalation, H332 Eye Dam. 1, H318 Skin Irrit. 2, H315		EU OEL

For full text of the H - statements and other abbreviations see section 16 "Other information". Substances without classification may have community workplace exposure limits available.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of adverse health effects seek medical advice.

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

Rinse with running water and soap. Skin care. Remove contaminated clothes immediately.

Eye contact

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

Ingestion:

Rinse mouth, do not induce vomiting, consult a doctor.

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

Vapors may cause drowsiness and dizziness.

After eye contact: Corrosive, may cause permanent damage to eyes (impairment of vision).

SKIN: Redness, inflammation.

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

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

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

 $Suitable\ extinguishing\ media:$

carbon dioxide, foam, powder, water spray jet, fine water spray

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Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO2) can be released.

5.3. Advice for firefighters

Wear protective equipment.

Wear self-contained breathing apparatus.

Additional information:

Cool endangered containers with water spray jet.

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.

Danger of slipping on spilled product.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Remove with liquid-absorbing material (sand, peat, sawdust).

Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ventilate working rooms thoroughly. Avoid naked flames, sparking and sources of ignition. Switch off electrical devices. Do not smoke, do not weld. Do not empty waste into waste water drains.

During processing and drying after adhesion, ventilate well. Avoid all sources of fire such as stoves and ovens. Switch off all electrical devices such as parabolic heaters, hot plates, storage heaters etc. in good time for them to have cooled down before commencing work. Avoid all sparks, including those occurring at electrical switches and devices. Avoid skin and eye contact.

Hygiene measures:

Do not eat, drink or smoke while working.

Wash hands before work breaks and after finishing work.

7.2. Conditions for safe storage, including any incompatibilities

Store in sealed original container.

Observe rules and measures for storage of flammable liquids.

Temperatures between + 5 °C and + 35 °C

Store in a cool place in closed original container.

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

7.3. Specific enduse(s)

Pipe adhesive

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
Tetrahydrofuran 109-99-9 [TETRAHYDROFURAN]	50	150	Time Weighted Average (TWA):	Indicative	ECTLV
Tetrahydrofuran 109-99-9 [TETRAHYDROFURAN]	100	300	Short Term Exposure Limit (STEL):	Indicative	ECTLV
Tetrahydrofuran 109-99-9	50	150	Exposure limit(s):	If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Tetrahydrofuran 109-99-9			Skin designation:	Can be absorbed through the skin.	TRGS 900
Tetrahydrofuran 109-99-9			Short Term Exposure Classification:	Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages.	T RGS 900
Butanone 78-93-3 [BUT ANONE]	200	600	Time Weighted Average (TWA):	Indicative	ECTLV
Butanone 78-93-3 [BUT ANONE]	300	900	Short Term Exposure Limit (STEL):	Indicative	ECTLV
Butanone 78-93-3			Skin designation:	Can be absorbed through the skin.	TRGS 900
Butanone 78-93-3	200	600	Exposure limit(s):	If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Butanone 78-93-3			Short Term Exposure Classification:	Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages.	T RGS 900
Cyclohexanone 108-94-1 [CYCLOHEXANONE]			Skin designation:	Can be absorbed through the skin.	ECTLV
Cyclohexanone 108-94-1 [CYCLOHEXANONE]	10	40,8	Time Weighted Average (TWA):	Indicative	ECTLV
Cyclohexanone 108-94-1 [CYCLOHEXANONE]	20	81,6	Short Term Exposure Limit (STEL):	Indicative	ECTLV
Cyclohexanone 108-94-1			Skin designation:	Can be absorbed through the skin.	TRGS 900
Cyclohexanone 108-94-1	20	80	Exposure limit(s):	I If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Cyclohexanone 108-94-1			Short Term Exposure Classification:	Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages.	TRGS 900
Polyvinyl chloride 9002-86-2			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
Polyvinyl chloride		10	Exposure limit(s):	2	TRGS 900

9002-86-2			If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	
Polyvinyl chloride 9002-86-2	1,25	Exposure limit(s):	If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Silicon dioxide 112945-52-5	4	Exposure limit(s):	If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	T RGS 900
Silicon dioxide 112945-52-5		Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
Silicon dioxide 112945-52-5	10	Exposure limit(s):	If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Silicon dioxide 112945-52-5	1,25	Exposure limit(s):	If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	T RGS 900

$\label{eq:predicted} \textbf{Predicted No-Effect Concentration (PNEC):}$

Name on list	En vi ronmental I Compartment		Value		Remarks		
		, c 110 ti	mg/l	ppm	mg/kg	others	
Butanone	aqua		55,8 mg/l				
78-93-3	(freshwater)						
Butanone	aqua (marine		55,8 mg/l				
78-93-3	water)		550 0				
Butanone 78-93-3	aqua		55,8 mg/l				
/8-93-3	(intermittent releases)						
Butanone	sewage		709 mg/l				
78-93-3	treatment plant		70711191				
, 0 , 5 5	(STP)						
Butanone	sediment				284,74		
78-93-3	(freshwater)				mg/kg		
Butanone	sediment				284,7		
78-93-3	(marine water)				mg/kg		
Butanone	Soil				22,5 mg/kg		
78-93-3					1000		
Butanone	oral				1000		
78-93-3 tetrahydrofuran	0.000		4,32 mg/l		mg/kg		
109-99-9	aqua (freshwater)		4,32 mg/1				
tetrahydrofuran	aqua (marine		0,432 mg/l				
109-99-9	water)		0,432 mg1				
tetrahydrofuran	aqua		21,6 mg/l				
109-99-9	(intermittent						
	releases)						
tetrahydrofuran	sewage		4,6 mg/l				
109-99-9	treatment plant						
	(STP)				22.2 "		
tetrahydrofuran 109-99-9	sediment (freshwater)				23,3 mg/kg		
tetrahydrofuran	sediment				2,33 mg/kg		
109-99-9	(marine water)				2,33 mg/kg		
tetrahydrofuran	Soil				2,13 mg/kg		
109-99-9					2,10 1119 119		
tetrahydrofuran	oral				67 mg/kg		
109-99-9							
tetrahydrofuran	Air						no hazard identified
109-99-9			0.000				
Cyclohexanone	aqua		0,0329				
108-94-1 Cyclohexanone	(freshwater) aqua (marine		mg/l 0,003 mg/l				
108-94-1	water)		0,003 mg/1				
Cyclohexanone	sediment				0,249		
108-94-1	(freshwater)				mg/kg		
Cyclohexanone	Soil			1	0,03 mg/kg		
108-94-1							
Cyclohexanone	sewage		10 mg/l				
108-94-1	treatment plant						
	(STP)		0.226	ļ			
Cyclohexanone	aqua		0,329 mg/l				
108-94-1	(intermittent releases)						
Cyclohexanone	sediment			 	0,025		
108-94-1	(marine water)				mg/kg		
100 /=1	(marine water)				mg/kg		

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Butanone 78-93-3	Workers	dermal	Long term exposure - systemic effects		1161 mg/kg	
Butanone 78-93-3	Workers	inhalation	Long term exposure - systemic effects		600 mg/m3	
Butanone 78-93-3	General population	dermal	Long term exposure - systemic effects		412 mg/kg	
Butanone 78-93-3	General population	inhalation	Long term exposure - systemic effects		106 mg/m3	
Butanone 78-93-3	General population	oral	Long term exposure - systemic effects		31 mg/kg	
tetrahydrofuran 109-99-9	Workers	Inhalation	Long term exposure - systemic effects		72,4 mg/m3	no hazard identified
tetrahydrofuran 109-99-9	Workers	dermal	Long term exposure - systemic effects		12,6 mg/kg	no hazard identified
tetrahydrofuran 109-99-9	General population	Inhalation	Long term exposure - systemic effects		13 mg/m3	no hazard identified
tetrahydrofuran 109-99-9	General population	dermal	Long term exposure - systemic effects		1,5 mg/kg	no hazard identified
tetrahydrofuran 109-99-9	General population	Inhalation	Acute/short term exposure - systemic effects		52 mg/m3	no hazard identified
tetrahydrofuran 109-99-9	General population	Inhalation	Acute/short term exposure - local effects		150 mg/m3	no hazard identified
tetrahydrofuran 109-99-9	Workers	Inhalation	Acute/short term exposure - systemic effects		96 mg/m3	no hazard identified
tetrahydrofuran 109-99-9	Workers	Inhalation	Acute/short term exposure - local effects		300 mg/m3	no hazard identified
tetrahydrofuran 109-99-9	Workers	inhalation	Long term exposure - local effects		150 mg/m3	no hazard identified
tetrahydrofuran 109-99-9	General population	inhalation	Long term exposure - local effects		75 mg/m3	no hazard identified
tetrahydrofuran 109-99-9	General population	oral	Long term exposure - systemic effects		1,5 mg/kg	no hazard identified
Cyclohexanone 108-94-1	Workers	Inhalation	Acute/short term exposure - systemic effects		80 mg/m3	
Cyclohexanone 108-94-1	Workers	dermal	Acute/short term exposure - systemic effects		4 mg/kg	
Cyclohexanone 108-94-1	Workers	Inhalation	Acute/short term exposure - local effects		80 mg/m3	
Cyclohexanone 108-94-1	Workers	dermal	Long term exposure - systemic effects		4 mg/kg	
Cyclohexanone 108-94-1	Workers	Inhalation	Long term exposure - systemic effects		40 mg/m3	
Cyclohexanone 108-94-1	Workers	Inhalation	Long term exposure - local effects		40 mg/m3	
Cyclohexanone 108-94-1	General population	dermal	Acute/short term exposure - systemic effects		1 mg/kg	
Cyclohexanone 108-94-1	General population	Inhalation	Acute/short term exposure -		20 mg/m3	

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			systemic effects		
Cyclohexanone 108-94-1	General population	oral	Acute/short term exposure - systemic effects	1,5 mg/kg	
Cyclohexanone 108-94-1	General population	Inhalation	Acute/short term exposure - local effects	40 mg/m3	
Cyclohexanone 108-94-1	General population	dermal	Long term exposure - systemic effects	1 mg/kg	
Cyclohexanone 108-94-1	General population	Inhalation	Long term exposure - systemic effects	10 mg/m3	
Cyclohexanone 108-94-1	General population	oral	Long term exposure - systemic effects	1,5 mg/kg	
Cyclohexanone 108-94-1	General population	Inhalation	Long term exposure - local effects	20 mg/m3	
Cyclohexanone 108-94-1	Workers	dermal	Acute/short term exposure - local effects	10 mg/kg	

Biological Exposure Indices:

Ingredient [Regulated substance]	Parameters	Biological specimen	Samplingtime		Basis of biol. exposure index	 Additional Information
Tetrahydrofuran 109-99-9	tetrahydrofur an	Urine	Sampling time: End of shift.	2 mg/l	DE BAT	
Tetrahydrofuran 109-99-9	tetrahydrofur an	Urine	Sampling time: End of shift.	2 mg/l	DE BGW	
Butanone 78-93-3 [2-Butanone; Methylethylketone]	2-butanone	Urine	Sampling time: End of shift.	150 mg/l	DE BGW	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state liquid
Delivery form liquid
Colour colourless,

slightly, turbid strong, of solvent

Odor strong, of solvent Solidification temperature strong of solvent -31 °C (-23.8 °F)

Initial boiling point $\,$ 66 °C (150.8 °F)no method

Flammability flammable

Explosive limits

Flash point

lower 1,3 %(V); upper 12,6 %(V);

Upper/lower explosion limit -4 °C (24.8 °F); no method

Auto-ignition temperature 215 °C (419 °F)

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

pH Not applicable
Viscosity (kinematic) 7.300 - 15.600 mm2/s

(40 °C (104 °F);)

Viscosity, dynamic 7.000 - 15.000 mPa.s no method

(Brookfield; 20 $^{\circ}$ C (68 $^{\circ}$ F))

Solubility (qualitative) Partially soluble

(20 °C (68 °F); Solvent: Water)

Solubility (qualitative) Partially soluble

(20 °C (68 °F); Solvent: ketones)

Solubility (qualitative) Partially soluble

(20 °C (68 °F); Solvent: other organic

solvents)

Vapour pressure 360 mbar

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(50 °C (122 °F)) Density (23 °C (73.4 °F))

0,960 g/cm3 no method

9.2. Other information

Other information not applicable for this product

SECTION 10: Stability and reactivity

10.1. Reactivity

None if used for intended purpose.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

None if used for intended purpose.

10.5. Incompatible materials

None if used properly.

10.6. Hazardous decomposition products

None known

SECTION 11: Toxicological information

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
Butanone 78-93-3	LD50	2.737 mg/kg	rat	not specified
tetrahydrofuran 109-99-9	LD50	1.650 mg/kg	rat	not specified
Cyclohexanone 108-94-1	LD50	800 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)

Acute dermal 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
Butanone 78-93-3	LD50	> 6.400 mg/kg	rabbit	not specified
tetrahydrofuran 109-99-9	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Cyclohexanone 108-94-1	LD50	1.100 mg/kg	rabbit	not specified

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Acute inhalative toxicity:

The toxicity of the product is due to its narcotic effect after inhalation. In the event of protracted or repeated exposure, damage to health cannot be excluded.

Hazardous substances	Value	Value	Test atmosphere	Exposure	Species	Method
CAS-No.	type			time		
Butanone 78-93-3	LC50	> 20 mg/l	vapour	4 h	rat	not specified
tetrahydrofuran 109-99-9	LC50	> 14,7 mg/l	vapour	6 h	rat	EPA Guideline
tetrahy drofuran 109-99-9	Acute toxicity estimate (ATE)	> 14,7 mg/l	vapour	4 h		Expert judgement
Cyclohexanone 108-94-1	LC50	11 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		
Butanone 78-93-3	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
tetrahydrofuran 109-99-9	not irritating	72 h	rabbit	Draize Test
Cyclohexanone 108-94-1	irritating	4 h	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		
Butanone	irritating		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye
78-93-3				Irritation/Corrosion)
Cyclohexanone	corrosive	24 h	rabbit	BASF Test
108-94-1				
Cyclohexanone	corrosive	3,5 min	Chicken, egg, in	Hen's Egg Test – Chorioallantoic Membrane (HET-CAM)
108-94-1			vitro assay	

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.				
Butanone	not sensitising	Buehler test	guinea pig	equivalent or similar to OECD Guideline
78-93-3				406 (Skin Sensitisation)
tetrahy drofuran	not sensitising	Mouse local lymphnode	mouse	equivalent or similar to OECD Guideline
109-99-9		assay (LLNA)		429 (Skin Sensitisation: Local Lymph
				Node Assay)

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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
Butanone 78-93-3	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Butanone 78-93-3	negative	in vitro mammalian chromosome aberration test	not applicable		equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Butanone 78-93-3	negative	mammalian cell gene mutation assay	with and without		equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
tetrahydrofuran 109-99-9	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
tetrahy drofuran 109-99-9	negative	in vitro mammalian chromosome aberration test	with and without		equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
tetrahydrofuran 109-99-9	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Cyclohexanone 108-94-1	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		not specified
Butanone 78-93-3	negative	intraperitoneal		mouse	equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
tetrahydrofuran 109-99-9	negative	inhalation: vapour		mouse	equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

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
tetrahydrofuran 109-99-9	carcinogenic	inhalation: vapour	105 w 6 h/d, 5 d/w	mouse	female	not specified

Reproductive toxicity:

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

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
Butanone 78-93-3	NOAEL P 10.000 mg/l NOAEL F1 10.000 mg/l	two- generation study	oral: drinking water	rat	equivalent or similar to OECD Guideline 416 (Two- Generation Reproduction Toxicity Study)
tetrahydrofuran 109-99-9	NOAEL P 9000 ppm NOAEL F1 3000 ppm NOAEL F2 3000 ppm	Two generation study	oral: drinking water	rat	OECD Guideline 416 (Two- Generation Reproduction Toxicity Study)

$STOT\text{-}single\ exposure:$

No data available.

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$STOT\text{-}repeated\,exposure::\\$

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

Hazardous substances	Result / Value	Route of	Exposure time /	Species	Method
CAS-No.		application	Frequency of		
			treatment		
Butanone	NOAEL 2500 ppm	inhalation	90 days	rat	not specified
78-93-3			6 hours/day, 5		
			days/week		
tetrahydrofuran	NOAEL 1.000 mg/l	oral:	4 w	rat	equivalent or similar to
109-99-9	_	drinking	daily		OECD Guideline 407
		water			(Repeated Dose 28-Day
					Oral Toxicity in Rodents)

Aspiration hazard:

The mixture is classified based on Viscosity data.

Hazardous substances CAS-No.	Viscosity (kinematic) Value	Temperature	Method	Remarks
Butanone 78-93-3	0,51 mm2/s	20 °C	ASTM Standard D7042	

11.2 Information on other hazards

not applicable

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SECTION 12: Ecological information

General ecological information:

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

12.1. Toxicity

Toxicity (Fish):

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

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Butanone 78-93-3	LC50	3.220 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
tetrahydrofuran 109-99-9	NOEC	216 mg/l	33 d	Pimephales promelas	OECD Guideline 210 (fish early lite stage toxicity test)
tetrahydrofuran 109-99-9	LC50	2.160 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Cyclohexanone 108-94-1	LC50	527 - 732 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)

Toxicity (Daphnia):

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

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Butanone	EC50	5.091 mg/l	48 h	Daphnia magna	OECD Guideline 202
78-93-3					(Daphnia sp. Acute
					Immobilisation Test)
tetrahydrofuran	EC50	3.485 mg/l	48 h	Daphnia magna	OECD Guideline 202
109-99-9					(Daphnia sp. Acute
					Immobilisation Test)
Cyclohexanone	EC50	820 mg/l	24 h	Daphnia magna	OECD Guideline 202
108-94-1					(Daphnia sp. Acute
					Immobilisation Test)

Chronic toxicity to aquatic invertebrates

No data available.

Toxicity (Algae):

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

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Butanone 78-93-3	EC50	2.029 mg/l	96 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Butanone 78-93-3	EC10	1.289 mg/l	96 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
tetrahydrofuran 109-99-9	NOEC	3.700 mg/l		Scenedesmus quadricauda	other guideline:
Cyclohexanone 108-94-1	EC50	> 100 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Cyclohexanone 108-94-1	NOEC	100 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)

Toxicity to microorganisms

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

Hazardous substances CAS-No.	Value type	Value	Exposure time	S pe cies	Method
Butanone 78-93-3	EC50	1.150 mg/l	16 h	P seudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm- Test)
tetrahydrofuran 109-99-9	IC50	460 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Cyclohexanone 108-94-1	EC50	> 1.000 mg/l	30 min	activated sludge, domestic	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

12.2. Persistence and degradability

Hazardous substances	Result	Test type	Degradability	Exposure	Method
CAS-No.				time	
Butanone 78-93-3	readily biodegradable	aerobic	98 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
tetrahydrofuran 109-99-9	inherently biodegradable	aerobic	61 %	52 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Cyclohexanone 108-94-1	readily biodegradable	aerobic	90 - 100 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

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Hazardous substances CAS-No.	LogPow	Temperature	Method
Butanone 78-93-3	0,3	40 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
tetrahydrofuran 109-99-9	0,45	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol/water), Shake Flask Method)
Cyclohexanone 108-94-1	0,86	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol/water), Shake Flask Method)

12.5. Results of PBT and vPvB assessment

Hazardous substances	PBT/ vPvB
CAS-No.	
Butanone	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
78-93-3	Bioaccumulative (vPvB) criteria.
tetrahydrofuran	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
109-99-9	Bioaccumulative(vPvB) criteria.
Cyclohexanone	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
108-94-1	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:

Dispose of waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages:

Use packages for recycling only when totally empty.

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SECTION 14: Transport information

14.1. UN number

ADR	1133
RID	1133
ADN	1133
IMDG	1133
IATA	1133

14.2. UN proper shipping name

ADR	ADHESIVES
RID	ADHESIVES
ADN	ADHESIVES
IMDG	ADHESIVES
IATA	Adhesives

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	not applicable
RID	not applicable
	1.1
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.6. Special precautions for user

ADR	Special provision 640D
	Tunnelcode: (D/E)
RID	Special provision 640D
ADN	Special provision 640D
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.: 41764 V006.0 Tangit All Pressure Page 18 of 18

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

National regulations/information (Germany):

WGK: WGK 1: slightly hazardous to water (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 vapor.

H226 Flammable liquid and vapor.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

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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