



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

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Tangit All Pressure

SDS No. : 41764  
V002.0

Revision: 20.04.2022

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Replaces version from: 26.06.2020

### 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 Jebal Ali FZCO

PO Box 61341 - Jebel Ali

Dubai

Utd.Arab.Emir.

For Safety Data Sheet updates please visit our website <https://mysds.henkel.com/index.html#/appSelection> or [www.henkel-adhesives.com](http://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):

##### Hazard pictogram:



Contains

tetrahydrofuran

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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.

## 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	content	Classification
Butanone 78-93-3	201-159-0	20- 40 %	STOT SE 3 H336 Eye Irrit. 2 H319 Flam. Liq. 2 H225
tetrahydrofuran 109-99-9	203-726-8	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
Cyclohexanone 108-94-1	203-631-1	10- 25 %	Flam. Liq. 3 H226 Acute Tox. 4; Oral H302 Acute Tox. 4; Dermal H312 Acute Tox. 4; Inhalation H332 Eye Dam. 1 H318 Skin Irrit. 2 H315

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.

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

See section: Description of first aid measures

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

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

#### Extinguishing media which must not be used for safety reasons:

High pressure waterjet

### 5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>) 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.).

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**7.3. Specific end use(s)**  
Pipe adhesive

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational Exposure Limits

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Utd.Arab.Emir.

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
Tetrahydrofuran 109-99-9 [TETRAHYDROFURAN]	50	147	Time Weighted Average (TWA):		AD TLV
Tetrahydrofuran 109-99-9 [TETRAHYDROFURAN]	100	295	Short Term Exposure Limit (STEL):		AD TLV
Tetrahydrofuran 109-99-9 [TETRAHYDROFURAN]			Skin designation:	Can be absorbed through the skin.	AD TLV
Tetrahydrofuran 109-99-9 [TETRA HYDROFURAN]	250	737	Short Term Exposure Limit (STEL):		GCC TLV
Tetrahydrofuran 109-99-9 [TETRA HYDROFURAN]	200	590	Time Weighted Average (TWA):		GCC TLV
Tetrahydrofuran 109-99-9 [TETRAHYDROFURAN]	200	590	Time Weighted Average (TWA):		UAE OEL
Tetrahydrofuran 109-99-9 [TETRAHYDROFURAN]	250	737	Short Term Exposure Limit (STEL):		UAE OEL
Butanone 78-93-3 [2-BUTANONE [METHYL ETHYL KETONE (MEK)]]	200	590	Time Weighted Average (TWA):		AD TLV
Butanone 78-93-3 [2-BUTANONE [METHYL ETHYL KETONE (MEK)]]	300	885	Short Term Exposure Limit (STEL):		AD TLV
Butanone 78-93-3 [2-BUTANONE]	200	590	Time Weighted Average (TWA):		GCC TLV
Butanone 78-93-3 [2-BUTANONE]	300	885	Short Term Exposure Limit (STEL):		GCC TLV
Butanone 78-93-3 [2-BUTANONE]	200	590	Time Weighted Average (TWA):		UAE OEL
Butanone 78-93-3 [2-BUTANONE]	300	885	Short Term Exposure Limit (STEL):		UAE OEL
Cyclohexanone 108-94-1 [CYCLOHEXANONE]			Skin designation:	Can be absorbed through the skin.	AD TLV
Cyclohexanone 108-94-1 [CYCLOHEXANONE]	20	50	Time Weighted Average (TWA):		AD TLV
Cyclohexanone 108-94-1 [CYCLO HEXANONE]			Skin designation:	Can be absorbed through the skin.	GCC TLV
Cyclohexanone 108-94-1 [CYCLO HEXANONE]	25	100	Time Weighted Average (TWA):		GCC TLV
Cyclohexanone 108-94-1 [CYCLOHEXANONE]	25	100	Time Weighted Average (TWA):		UAE OEL
Cyclohexanone 108-94-1			Skin designation:	Can be absorbed through the skin.	UAE OEL

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[CYCLOHEXANONE]				
Polyvinyl chloride 9002-86-2 [POLYVINYL CHLORIDE (PVC), RESPIRABLE FRACTION]		1	Time Weighted Average (TWA):	AD TLV
Silicon dioxide 112945-52-5 [SILICA (RESPIRABLE PARTICULATE)]		3	Time Weighted Average (TWA):	AD TLV
Silicon dioxide 112945-52-5 [SILICA (INHALABLE PARTICLE)]		10	Time Weighted Average (TWA):	AD TLV
Silicon dioxide 112945-52-5 [UN-CRYSTALLIZE SILICA (GRAPHITE) (TOTAL DUST)]		10	Time Weighted Average (TWA):	DB OEL
Silicon dioxide 112945-52-5 [UN-CRYSTALLIZE SILICA (GRAPHITE) (RESPIRABLE DUST)]		2,5	Time Weighted Average (TWA):	DB OEL
Silicon dioxide 112945-52-5 [SILICA DUST (RESPIRABLE)]		3	Time Weighted Average (TWA):	DB OEL

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## Occupational Exposure Limits

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Bharain

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
Tetrahydrofuran 109-99-9 [TETRAHYDROFURAN]	250	737	Short Term Exposure Limit (STEL):		BH TLV
Tetrahydrofuran 109-99-9 [TETRAHYDROFURAN]	200	590	Time Weighted Average (TWA):		BH TLV
Tetrahydrofuran 109-99-9 [TETRA HYDROFURAN]	250	737	Short Term Exposure Limit (STEL):		GCC TLV
Tetrahydrofuran 109-99-9 [TETRA HYDROFURAN]	200	590	Time Weighted Average (TWA):		GCC TLV
Butanone 78-93-3 [2-BUTANONE]	200	590	Time Weighted Average (TWA):		BH TLV
Butanone 78-93-3 [2-BUTANONE]	300	885	Short Term Exposure Limit (STEL):		BH TLV
Butanone 78-93-3 [2-BUTANONE]	200	590	Time Weighted Average (TWA):		GCC TLV
Butanone 78-93-3 [2-BUTANONE]	300	885	Short Term Exposure Limit (STEL):		GCC TLV
Cyclohexanone 108-94-1 [CYCLOHEXANONE]			Skin designation:	Can be absorbed through the skin.	BH TLV
Cyclohexanone 108-94-1 [CYCLOHEXANONE]	25	100	Time Weighted Average (TWA):		BH TLV
Cyclohexanone 108-94-1 [CYCLO HEXANONE]			Skin designation:	Can be absorbed through the skin.	GCC TLV
Cyclohexanone 108-94-1 [CYCLO HEXANONE]	25	100	Time Weighted Average (TWA):		GCC TLV

## Occupational Exposure Limits

Valid for  
Egypt

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
Butanone 78-93-3 [METHYL ETHYL KETONE]	200	590	Time Weighted Average (TWA):		EG OEL
Butanone 78-93-3 [METHYL ETHYL KETONE]	300	885	Short-term Exposure Limit (STEL):		EG OEL
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS]			Time Weighted Average (TWA):		EG OEL

## Occupational Exposure Limits

Valid for  
Jordan



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Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
Butanone 78-93-3 [METHYL ETHYL KETONE]	300	885	Short Term Exposure Limit (STEL):		JO TLV
Butanone 78-93-3 [METHYL ETHYL KETONE]	200	590	Time Weighted Average (TWA):		JO TLV
Cyclohexanone 108-94-1 [CYCLOHEXANONE]	25	100	Time Weighted Average (TWA):		JO TLV

## Occupational Exposure Limits

Valid for  
Kuwait

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
Cyclohexanone 108-94-1 [CYCLO HEXANONE]			Skin designation:	Can be absorbed through the skin.	GCC TLV
Cyclohexanone 108-94-1 [CYCLO HEXANONE]	25	100	Time Weighted Average (TWA):		GCC TLV
Cyclohexanone 108-94-1 [CYCLOHEXANONE]	25	100	Time Weighted Average (TWA):		KW OEL
Cyclohexanone 108-94-1 [CYCLOHEXANONE]			Skin designation:	Can be absorbed through the skin.	KW OEL
Cyclohexanone 108-94-1 [CYCLOHEXANONE]	700		Harmful Concentration for risk to health and life:		KW OEL
Polyvinyl chloride 9002-86-2 [PARTICULATES, INHALED]			Harmful Concentration for risk to health and life:	Unknown	KW OEL
Polyvinyl chloride 9002-86-2 [PARTICULATES, TOTAL]			Harmful Concentration for risk to health and life:	Unknown	KW OEL
Polyvinyl chloride 9002-86-2 [PARTICULATES, INHALED]		5	Time Weighted Average (TWA):		KW OEL
Polyvinyl chloride 9002-86-2 [PARTICULATES, TOTAL]		15	Time Weighted Average (TWA):		KW OEL
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS]		3.000	Harmful Concentration for risk to health and life:		KW OEL
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS]		6	Time Weighted Average (TWA):		KW OEL
Silicon dioxide 112945-52-5 [PARTICULATES, INHALED]			Harmful Concentration for risk to health and life:	Unknown	KW OEL
Silicon dioxide 112945-52-5 [PARTICULATES, TOTAL]		15	Time Weighted Average (TWA):		KW OEL
Silicon dioxide 112945-52-5 [PARTICULATES, INHALED]		5	Time Weighted Average (TWA):		KW OEL
Silicon dioxide 112945-52-5 [PARTICULATES, TOTAL]			Harmful Concentration for risk to health and life:	Unknown	KW OEL

## Occupational Exposure Limits

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Israel

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
Tetrahydrofuran 109-99-9 [TETRAHYDROFURAN]	100		Short-term exposure limit (STEL):		IL OEL
Tetrahydrofuran 109-99-9 [TETRAHYDROFURAN]	50		Time Weighted Average (TWA):		IL OEL
Tetrahydrofuran 109-99-9 [TETRAHYDROFURAN]			Skin designation:	Danger of cutaneous absorption	IL OEL
Butanone 78-93-3 [METHYL ETHYL KETONE (MEK)]	300		Short-term exposure limit (STEL):		IL OEL
Butanone 78-93-3 [METHYL ETHYL KETONE (MEK)]	200		Time Weighted Average (TWA):		IL OEL
Cyclohexanone 108-94-1 [CYCLOHEXANONE]	20		Time Weighted Average (TWA):		IL OEL
Cyclohexanone 108-94-1 [CYCLOHEXANONE]	50		Short-term exposure limit (STEL):		IL OEL
Cyclohexanone 108-94-1 [CYCLOHEXANONE]			Skin designation:	Danger of cutaneous absorption	IL OEL
Polyvinyl chloride 9002-86-2 [Polyvinyl chloride (PVC), respirable fraction]		1	Time Weighted Average (TWA):		IL OEL
Silicon dioxide 112945-52-5 [Particles (insoluble or poorly soluble) not otherwise specified, respirable particles]		3	Time Weighted Average (TWA):		IL OEL
Silicon dioxide 112945-52-5 [Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles]		10	Time Weighted Average (TWA):		IL OEL

## Occupational Exposure Limits

Valid for  
Kenya

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
Tetrahydrofuran 109-99-9 [TETRAHYDROFURAN]	200	590	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Tetrahydrofuran 109-99-9 [TETRAHYDROFURAN]	250	735	Short-term OEL-RL:		KE OEL-RL
Butanone 78-93-3 [METHYL ETHYL KETONE (MEK) BUTAN-2-ONE]	200	590	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Butanone 78-93-3 [METHYL ETHYL KETONE (MEK) BUTAN-2-ONE]	300	885	Short-term OEL-RL:		KE OEL-RL
Cyclohexanone 108-94-1 [CYCLOHEXANONE]	100	400	Short-term OEL-RL:		KE OEL-RL
Cyclohexanone 108-94-1 [CYCLOHEXANONE]	25	100	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Polyvinyl chloride		5	Time-weighted average		KE OEL-RL

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9002-86-2 [POLYVINYL CHLORIDE (PVC) RESPIRABLE DUST]			(TWA) OEL-RL:		
Polyvinyl chloride 9002-86-2 [POLYVINYL CHLORIDE (PVC) TOTAL INHALABLE DUST]		10	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS TOTAL INHALABLE DUST]		6	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS RESPIRABLE DUST]		3	Time-weighted average (TWA) OEL-RL:		KE OEL-RL

## Biological Exposure Indices:

Ingredient [Regulated substance]	Parameters	Biological specimen	Sampling time	Conc.	Basis of biol. exposure index	Remark	Additional Information
Butanone 78-93-3 [METHYL ETHYL KETONE (MEK)]	MEK	Urine	Sampling time: End of shift.	2 mg/l	KW BEL		

Ingredient [Regulated substance]	Parameters	Biological specimen	Sampling time	Conc.	Basis of biol. exposure index	Remark	Additional Information
Tetrahydrofuran 109-99-9 [TETRAHYDROFURAN]	tetrahydrofuran	Urine	Sampling time: End of shift.	2 mg/l	IL BEI		Source of Limit value: ACGIH
Butanone 78-93-3 [METHYL ETHYL KETONE (MEK)]	MEK	Urine	Sampling time: End of shift.	2 mg/l	IL BEI	Nonspecific	Source of Limit value: ACGIH
Cyclohexanone 108-94-1 [CYCLOHEXANONE]	1,2-Cyclohexane diol, with hydrolysis	Urine	Sampling time: End of shift at end of work week.	80 mg/l	IL BEI	Nonspecific, Semi-quantitative	Source of Limit value: ACGIH

Ingredient [Regulated substance]	Parameters	Biological specimen	Sampling time	Conc.	Basis of biol. exposure index	Remark	Additional Information
Butanone 78-93-3 [METHYL ETHYL KETONE]	MEK	Urine	Sampling time: End of shift.	2 mg/l	KE BEI		

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	liquid free-flowing, light, thixotropic colourless, slightly, turbid
Odor	strong, of solvent
Odour threshold	No data available / Not applicable
pH	Not applicable, Product is non-soluble (in water).
pH	Not applicable
Initial boiling point	66 °C (150.8 °F)
Flash point	-4 °C (24.8 °F); no method
Decomposition temperature	No data available / Not applicable
Vapour pressure	360 mbar
(50 °C (122 °F))	
Density	0,960 g/cm3

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(23 °C (73.4 °F))	
Bulk density	No data available / Not applicable
Viscosity	7.000 - 15.000 mPa.s
(Brookfield; 20 °C (68 °F))	
Viscosity (kinematic)	7.300 - 15.600 mm <sup>2</sup> /s
(40 °C (104 °F); )	
Explosive properties	No data available / Not applicable
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)	
Solidification temperature	-31 °C (-23.8 °F)
Melting point	No data available / Not applicable
Flammability	No data available / Not applicable
Auto-ignition temperature	215 °C (419 °F)
Explosive limits	
lower	1,3 % (V)
upper	12,6 % (V)
Partition coefficient: n-octanol/water	No data available / Not applicable
Evaporation rate	No data available / Not applicable
Vapor density	No data available / Not applicable
Oxidising properties	No data available / Not applicable

## 9.2. Other information

No data available / Not applicable

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

None if used for intended purpose.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

See section reactivity

### 10.4. Conditions to avoid

None if used for intended purpose.

### 10.5. Incompatible materials

None if used properly.

### 10.6. Hazardous decomposition products

None known

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### 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.

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## Acute oral toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Butanone 78-93-3	LD50	2.737 mg/kg	oral		rat	not specified
tetrahydrofuran 109-99-9	LD50	1.650 mg/kg	oral		rat	not specified
Cyclohexanone 108-94-1	LD50	800 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)

## Acute inhalative toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
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
tetrahydrofuran 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

## Acute dermal toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Butanone 78-93-3	LD50	> 6.400 mg/kg	dermal		rabbit	not specified
tetrahydrofuran 109-99-9	LD50	> 2.000 mg/kg	dermal		rat	OECD Guideline 402 (Acute Dermal Toxicity)
Cyclohexanone 108-94-1	LD50	1.100 mg/kg	dermal		rabbit	not specified

## Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
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:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Butanone 78-93-3	irritating		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Cyclohexanone 108-94-1	corrosive	24 h	rabbit	BASF Test
Cyclohexanone 108-94-1	corrosive	3,5 min	Chicken, egg, in vitro assay	Hen's Egg Test – Chorioallantoic Membrane (HET-CAM)

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## Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Butanone 78-93-3	not sensitising	Buehler test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
tetrahydrofuran 109-99-9	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

## Germ cell mutagenicity:

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

## Carcinogenicity:

Hazardous components CAS-No.	Result	Species	Sex	Exposure time Frequency of treatment	Route of application	Method
tetrahydrofuran 109-99-9	carcinogenic	mouse	female	105 w 6 h/d, 5 d/w	inhalation: vapour	not specified

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## Reproductive toxicity:

Hazardous substances CAS-No.	Result / Classification	Species	Exposure time	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)

## Repeated dose toxicity

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Butanone 78-93-3	NOAEL=2500 ppm	inhalation	90 days 6 hours/day, 5 days/week	rat	not specified
Butanone 78-93-3	LOAEL=5000 ppm	inhalation	90 days 6 hours/day, 5 days/week	rat	not specified
tetrahydrofuran 109-99-9	NOAEL=1.000 mg/l	oral: drinking water	4 wdaily	rat	equivalent or similar to OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
tetrahydrofuran 109-99-9		inhalation: vapour	14 w 6 h/d, 5 d/w	rat	not specified

## SECTION 12: Ecological information

### General ecological information:

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

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## 12.1. Toxicity

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Butanone 78-93-3	LC50	3.220 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Butanone 78-93-3	EC50	5.091 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Butanone 78-93-3	EC50	2.029 mg/l	Algae	96 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
	EC10	1.289 mg/l	Algae	96 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Butanone 78-93-3	EC50	1.150 mg/l	Bacteria	16 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshe mm-Test)
tetrahydrofuran 109-99-9	NOEC	216 mg/l	Fish	33 d	Pimephales promelas	OECD Guideline 210 (fish early lite stage toxicity test)
	LC50	2.160 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
tetrahydrofuran 109-99-9	EC50	3.485 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
tetrahydrofuran 109-99-9	NOEC	3.700 mg/l	Algae		Scenedesmus quadricauda	other guideline:
tetrahydrofuran 109-99-9	IC50	460 mg/l	Bacteria	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Cyclohexanone 108-94-1	LC50	527 - 732 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Cyclohexanone 108-94-1	EC50	820 mg/l	Daphnia	24 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Cyclohexanone 108-94-1	EC50	> 100 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
	NOEC	100 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Cyclohexanone 108-94-1	EC50	> 1.000 mg/l	Bacteria	30 min	activated sludge, domestic	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

## 12.2. Persistence and degradability

Hazardous components CAS-No.	Result	Route of application	Degradability	Method



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Butanone 78-93-3	readily biodegradable	aerobic	98 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
tetrahydrofuran 109-99-9	inherently biodegradable	aerobic	61 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Cyclohexanone 108-94-1	readily biodegradable	aerobic	90 - 100 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)

## 12.3. Bioaccumulative potential / 12.4. Mobility in soil

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	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 components CAS-No.	PBT/vPvB
Butanone 78-93-3	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
tetrahydrofuran 109-99-9	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Cyclohexanone 108-94-1	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

## 12.6. Other adverse effects

No data available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product disposal:

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

Disposal of uncleaned packages:

Use packages for recycling only when totally empty.

Waste code

080409

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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
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. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

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## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

No information available:

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009):	Not applicable
Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):	Not applicable
Persistent organic pollutants (Regulation (EU) 2019/1021):	Not applicable

### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

## SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

- H225 Highly flammable liquid and 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.

### Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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