



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

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PATTEX 2C RAPID ACTIVATOR

SDS No. : 545135  
V004.0

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

#### 1.1. Product identifier

PATTEX 2C RAPID ACTIVATOR

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

Intended use:  
Hardener

#### 1.3. Details of the supplier of the safety data sheet

Henkel Jebal Ali FZCO  
PO Box 61341 - Jebel Ali  
Dubai

Utd.Arab.Emir.

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website [www.mysds.henkel.com](http://www.mysds.henkel.com) or [www.henkel-adhesives.com](http://www.henkel-adhesives.com).

#### 1.4. Emergency telephone number

HAAD Poison and Drug Information Center UAE, TOLL FREE TEL. NUMBER 800-424

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (CLP):

Flammable aerosols	Category 1
H222 Extremely flammable aerosol.	
H229 Pressurized container: May burst if heated.	
Skin irritation	Category 2
H315 Causes skin irritation.	
<b>Carcinogenicity</b>	<b>Category 1B</b>
<b>H350 May cause cancer.</b>	
Toxic to reproduction	Category 2
H361f Suspected of damaging fertility.	
Specific target organ toxicity - single exposure	Category 3
H336 May cause drowsiness or dizziness.	
Target organ: Central nervous system	
Specific target organ toxicity - repeated exposure	Category 1
H372 Causes damage to organs through prolonged or repeated exposure.	
Chronic hazards to the aquatic environment	Category 2
H411 Toxic to aquatic life with long lasting effects.	

2.2. Label elements

Label elements (CLP):



<b>Contains</b>	n-Hexane
	N,N-Dimethyl-p-toluidine

<b>Signal word:</b>	<b>Danger</b>
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<b>Hazard statement:</b>	<p>H222 Extremely flammable aerosol.                  H229 Pressurized container: May burst if heated.                  H315 Causes skin irritation.                  H336 May cause drowsiness or dizziness.                  H350 May cause cancer.                  H361f Suspected of damaging fertility.                  H372 Causes damage to organs through prolonged or repeated exposure.</p> <p>H411 Toxic to aquatic life with long lasting effects.</p>
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<b>Precautionary statement:</b>	<p>P102 Keep out of reach of children.                  P101 If medical advice is needed, have product container or label at hand.</p>
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<b>Precautionary statement: Prevention</b>	<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.                  P211 Do not spray on an open flame or other ignition source.                  P251 Do not pierce or burn, even after use.                  P260 Do not breathe mist/vapours.                  P271 Use only outdoors or in a well-ventilated area.                  P273 Avoid release to the environment.                  P280 Wear protective gloves.</p>
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<b>Precautionary statement: Response</b>	<p>P302+P352 IF ON SKIN: Wash with plenty of soap and water.                  P308+P313 IF exposed or concerned: Get medical advice/attention.</p>
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<b>Precautionary statement: Storage</b>	<p>P405 Store locked up.</p>
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<b>Precautionary statement: Disposal</b>	<p>P501 Dispose of contents/container in accordance with national regulation.</p>
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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.

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

None

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****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
n-Hexane  110-54-3 203-777-6 01-2119480412-44	50- < 70 %	Aquatic Chronic 2, H411 Flam. Liq. 2, H225 Repr. 2, H361f Asp. Tox. 1, H304 STOT RE 1, H372 Skin Irrit. 2, H315 STOT SE 3, H336		SVHC EU OEL
Petroleum gases, liquefied  68476-85-7 270-704-2	30- < 40 %	Flam. Gas 1A, H220 Press. Gas Liquef. Gas, H280		
N,N-Dimethyl-p-toluidine  99-97-8 202-805-4 01-2119956633-31	0,1- < 1 %	Aquatic Chronic 3, H412 Acute Tox. 3, H301 Acute Tox. 4, H332 Carc. 1B, H350 STOT RE 2, H373 Repr. 2, H361	oral:ATE = 140 mg/kg inhalation:ATE = 1,4 mg/l;mist	

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".

The hazard classification of this product is based solely on the mixture present within the aerosol, excluding the propellant gases. The information provided in Section 3 is based on the combination of the mixture and propellant gases.

**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:

Fresh foam : Wipe off affected skin area immediately with a soft cloth and then remove residues with vegetable oil; apply skin care product. Cured foam can be removed only mechanically.

## Eye contact:

Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remain (intensive smarting, sensitivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

## Ingestion:

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

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

SKIN: Redness, inflammation.

Vapors may cause drowsiness and dizziness.

**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 self-contained breathing apparatus.

Wear protective equipment.

**Additional information:**

Cool endangered containers with water spray jet.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective equipment.

Danger of slipping on spilled product.

Ensure adequate ventilation.

Avoid contact with skin and eyes.

**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**

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.

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.

Transport by automobile: leave the container wrapped in a cloth in the trunk, never in the passenger area.

Avoid skin and eye contact.

**Hygiene measures:**

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

**7.2. Conditions for safe storage, including any incompatibilities**

For pressurized can: protect from direct sunshine and temperatures above 50°C.  
 Protect from direct sunlight and temperatures above 50°C. The storage regulations for aerosols apply.  
 Keep away from sources of ignition.  
 Ensure adequate ventilation.  
 Keep container tightly sealed.  
 Store in a cool, dry place.  
 Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

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

Hardener

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Occupational Exposure Limits**

Valid for  
 Utd.Arab.Emir.

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
n-Hexane 110-54-3 [N-HEXANE]			Skin designation:	Can be absorbed through the skin.	AD TLV
n-Hexane 110-54-3 [N-HEXANE]	50	176	Time Weighted Average (TWA):		AD TLV
n-Hexane 110-54-3 [N-HEXANE]	50	176	Time Weighted Average (TWA):		GCC TLV
n-Hexane 110-54-3 [N-HEXANE]	50	176	Time Weighted Average (TWA):		UAE OEL
n-Hexane 110-54-3 [N-HEXANE]	50		Time Weighted Average (TWA):		DB OEL
Petroleum gases, liquefied 68476-85-7 [L.P.G (LIQUEFIED PETROLEUM GAS)]	1.000	1.800	Time Weighted Average (TWA):		AD TLV
Petroleum gases, liquefied 68476-85-7 [L.P.G]	1.000	1.800	Time Weighted Average (TWA):		GCC TLV
Petroleum gases, liquefied 68476-85-7 [L.P.G.]	1.000	1.800	Time Weighted Average (TWA):		UAE OEL
Petroleum gases, liquefied 68476-85-7 [LPG ( LIQUIDIFIED PETROLEUM GAS )]	1.000		Time Weighted Average (TWA):		DB OEL

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**Occupational Exposure Limits**

Valid for  
Bahrain

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
n-Hexane 110-54-3 [N-HEXANE]	50	176	Time Weighted Average (TWA):		GCC TLV
n-Hexane 110-54-3 [N-HEXANE]	50	176	Time Weighted Average (TWA):		BH TLV
Petroleum gases, liquefied 68476-85-7 [L.P.G]	1.000	1.800	Time Weighted Average (TWA):		GCC TLV
Petroleum gases, liquefied 68476-85-7 [L.P.G]	1.000	1.800	Time Weighted Average (TWA):		BH 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
n-Hexane 110-54-3 [N-HEXANE]	50	176	Time Weighted Average (TWA):		EG OEL
n-Hexane 110-54-3 [N-HEXANE]			Skin designation:	Can be absorbed through the skin.	EG OEL
Petroleum gases, liquefied 68476-85-7 [Liquified petroleum gas]	1.000	1.800	Time Weighted Average (TWA):		EG OEL

**Occupational Exposure Limits**

Valid for  
Jordan

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
n-Hexane 110-54-3 [HEXANE (REGULAR)]	50	180	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
n-Hexane 110-54-3 [N-HEXANE]	50	176	Time Weighted Average (TWA):		GCC TLV
n-Hexane 110-54-3 [HEXANE]	1.100		Harmful Concentration for risk to health and life:		KW OEL
n-Hexane 110-54-3 [HEXANE]			Skin designation:	Can be absorbed through the skin.	KW OEL
n-Hexane	50	180	Time Weighted Average		KW OEL

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110-54-3 [HEXANE]			(TWA):		
Petroleum gases, liquefied 68476-85-7 [L.P.G]	1.000	1.800	Time Weighted Average (TWA):		GCC TLV
Petroleum gases, liquefied 68476-85-7 [LIQUID PETROLUUM GAS (LPG)]	1.000	1.800	Time Weighted Average (TWA):		KW OEL
Petroleum gases, liquefied 68476-85-7 [LIQUID PETROLUUM GAS (LPG)]	2.000		Harmful Concentration for risk to health and life:		KW OEL

**Occupational Exposure Limits**

Valid for  
Israel

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
n-Hexane 110-54-3 [N-HEXANE]	50		Time Weighted Average (TWA):		IL OEL
n-Hexane 110-54-3 [N-HEXANE]			Skin designation:	Danger of cutaneous absorption	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
n-Hexane 110-54-3 [N-HEXANE]	20	70	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Petroleum gases, liquefied 68476-85-7 [LIQUIFIED PETROLEUM GAS (LPG)]	1.250	2.250	Short-term OEL-RL:		KE OEL-RL
Petroleum gases, liquefied 68476-85-7 [LIQUIFIED PETROLEUM GAS (LPG)]	1.000	1.800	Time-weighted average (TWA) OEL-RL:		KE OEL-RL

**Biological Exposure Indices:**

None

Ingredient [Regulated substance]	Parameters	Biological specimen	Sampling time	Conc.	Basis of biol. exposure index	Remark	Additional Information
n-Hexane 110-54-3 [N-HEXANE]	2,5-Hexanedion, without hydrolysis hexane	Creatinine in urine	Sampling time: End of shift.	5 mg/g	KW BEL		
n-Hexane 110-54-3 [N-HEXANE [ENTRY 2]]		End-exhaled air	Sampling time: End of shift.		KW BEL		

Ingredient [Regulated substance]	Parameters	Biological specimen	Sampling time	Conc.	Basis of biol. exposure index	Remark	Additional Information
n-Hexane 110-54-3 [n-Hexane N-HEXANE]	2,5-Hexanedione, without hydrolysis	Urine	Sampling time: End of shift.	0,5 mg/l	IL BEI		Source of Limit value: ACGIH

Ingredient [Regulated substance]	Parameters	Biological specimen	Sampling time	Conc.	Basis of biol. exposure index	Remark	Additional Information
n-Hexane 110-54-3 [N-HEXANE]	n-hexane	End-exhaled air			KE BEI	D: This notation indicates that the biological determinant is an indicator of exposure to the chemical, but the quantitative interpretation of the measurement is ambiguous (semi-quantitative). These biological determinants should be used as a screening test if a quantitative test is not practical or a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question. C: This notation indicates that the determinant is non-specific, since it is observed after exposure to some other	
n-Hexane 110-54-3 [N-HEXANE]	2,5-Hexanedione	Creatinine in urine	Sampling time: End of shift.	5 mg/g	KE BEI		

						chemicals. These non-specific tests are preferred because they are easy to use and usually offer a better correlation with exposure than specific tests. In such instances a BEI for a specific, less quantitative biological determinant is recommended as a confirmatory test.
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**8.2. Exposure controls:**

Respiratory protection:

Suitable breathing mask when there is inadequate ventilation.  
 Combination filter: ABEKP (EN 14387)  
 This recommendation should be matched to local conditions.

Hand protection:

Recommended are gloves made from Nitril rubber ( Material thickness >0,1 mm, Perforation time < 30s).Gloves should be replaced after each short time contact or contamination. Available at laboratory specialized trade or at pharmacies / chemist's shops.

In the case of longer contact protective gloves made from nitrile rubber are recommended according to EN 374.  
 material thickness > 0.4 mm  
 Perforation time > 30 minutes

In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, product compatibility, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. The information provided by the manufacturers and given in the relevant trade association regulations for industrial safety must always be observed. We recommend that a hand care plan is drawn up in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Eye protection:

Goggles which can be tightly sealed.  
 Protective eye equipment should conform to EN166.

Skin protection:

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	pressurized can
Colour	Clear

Odor	Characteristic
Physical state	liquid
Melting point	Not applicable, Product is a liquid
Initial boiling point	64 - 72 °C (147.2 - 161.6 °F); Internal Henkel specification
Flammability	Currently under determination
Explosive limits	Currently under determination
Flash point	60 °C (140 °F)
Auto-ignition temperature	Currently under determination
Decomposition temperature	Currently under determination
pH	Not applicable
Viscosity (kinematic)	Currently under determination
Solubility (qualitative)	Currently under determination
Partition coefficient: n-octanol/water	Not applicable
	Mixture
Vapour pressure	Currently under determination
Density (20 °C (68 °F))	0,78 g/cm3 no method / method unknown
Relative vapour density:	Currently under determination
Particle characteristics	Not applicable
	Product is a liquid

**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**

Temperatures over appr. 50 °C

**10.5. Incompatible materials**

None if used properly.

**10.6. Hazardous decomposition products**

None known.

**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.

Based on available data, the classification criteria are not met.

Hazardous substances CAS-No.	Value type	Value	Species	Method
n-Hexane 110-54-3	LD50	16.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
N,N-Dimethyl-p-toluidine 99-97-8	Acute toxicity estimate (ATE)	140 mg/kg		Expert judgement

**Acute dermal toxicity:**

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

Based on available data, the classification criteria are not met.

Hazardous substances CAS-No.	Value type	Value	Species	Method
n-Hexane 110-54-3	LD50	> 2.000 mg/kg	rabbit	not specified
N,N-Dimethyl-p-toluidine 99-97-8	LD50	> 2.000 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)

**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.

Based on available data, the classification criteria are not met.

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
n-Hexane 110-54-3	LC50	> 31,86 mg/l	vapour	4 h	rat	not specified
Petroleum gases, liquefied 68476-85-7	LC50	539600 ppm	gas	2 h	mouse	not specified
N,N-Dimethyl-p-toluidine 99-97-8	Acute toxicity estimate (ATE)	1,4 mg/l	mist			Expert judgement

**Skin corrosion/irritation:**

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

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
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.

Based on available data, the classification criteria are not met.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
n-Hexane 110-54-3	not irritating		rabbit	not specified

**Respiratory or skin sensitization:**

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

Based on available data, the classification criteria are not met.

Hazardous substances CAS-No.	Result	Test type	Species	Method
n-Hexane 110-54-3	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

**Germ cell mutagenicity:**

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

Based on available data, the classification criteria are not met.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
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)

**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)
N,N-Dimethyl-p-toluidine 99-97-8	carcinogenic	oral: gavage	104 w 5 d / week	rat	male/female	equivalent or similar OECD Guideline 451 (Carcinogenicity Studies)
N,N-Dimethyl-p-toluidine 99-97-8	carcinogenic	oral: gavage	104 w 5 d / week	mouse	male/female	equivalent or similar OECD Guideline 451 (Carcinogenicity Studies)

**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
n-Hexane 110-54-3	NOAEL P 9000 ppm NOAEL F1 3000 ppm NOAEL F2 3000 ppm	Two generation study	inhalation: vapour	rat	OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)
Petroleum gases, liquefied 68476-85-7	NOAEL P 10000 ppm	Fertility	inhalation: gas	rat	not specified
N,N-Dimethyl-p-toluidine 99-97-8	NOAEL P 62,5 mg/kg		oral: gavage	rat	not specified

**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
n-Hexane 110-54-3	May cause drowsiness or dizziness.			

**STOT-repeated exposure:**

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

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
n-Hexane 110-54-3	NOAEL 40 mg/kg	oral: gavage	13 weeks daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
n-Hexane 110-54-3	NOAEL 13,2 mg/kg	oral: gavage	90-120 d 5 d / week	rat	not specified
Petroleum gases, liquefied 68476-85-7	NOAEL 10000 ppm	inhalation: gas	14 w 6 h/d, 5 d/w	rat	equivalent or similar to OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)

**Aspiration hazard:**

The mixture is classified based on Viscosity data.

Based on available data, the classification criteria are not met.

Hazardous substances CAS-No.	Viscosity (kinematic) Value	Temperature	Method	Remarks
n-Hexane 110-54-3	0,45 mm <sup>2</sup> /s	25 °C	not specified	

**11.2 Information on other hazards**

**11.2.1 Endocrine disrupting properties**

No data available.

## 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.

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
n-Hexane 110-54-3	LC50	> 1 - 10 mg/l	96 h	not specified	OECD Guideline 203 (Fish, Acute Toxicity Test)
N,N-Dimethyl-p-toluidine 99-97-8	LC50	78,62 mg/l	96 h	Danio rerio	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 CAS-No.	Value type	Value	Exposure time	Species	Method
n-Hexane 110-54-3	EC50	2,1 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
N,N-Dimethyl-p-toluidine 99-97-8	EC50	10,34 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

**Chronic toxicity (aquatic invertebrates):**

No data available.

**Toxicity (Algae):**

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
n-Hexane 110-54-3	EC50	> 1 - 10 mg/l	72 h	not specified	OECD Guideline 201 (Alga, Growth Inhibition Test)
N,N-Dimethyl-p-toluidine 99-97-8	EC50	23,69 mg/l	72 h	Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata)	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 CAS-No.	Value type	Value	Exposure time	Species	Method
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****Biodegradability (Screening Tests):**

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
n-Hexane 110-54-3	readily biodegradable	aerobic	81 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
N,N-Dimethyl-p-toluidine 99-97-8	not readily biodegradable.	aerobic	1 %	14 d	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))

**(Bio)degradability (Simulation Tests):**

No data available.

**12.3. Bioaccumulative potential****Partition Coefficient (octanol/water)**

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

Hazardous substances CAS-No.	LogPow	Temperature	Method
n-Hexane 110-54-3	4	20 °C	other guideline:
N,N-Dimethyl-p-toluidine 99-97-8	2,81	25 °C	other guideline:

**Bioconcentration factor (BCF)**

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

Hazardous substances CAS-No.	Bioconcentration factor (BCF)	Exposure time	Temperature	Species	Method
N,N-Dimethyl-p-toluidine 99-97-8	33			other	other guideline:

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT / vPvB / PMT / vPvM assessment****PBT/vPvB**

This mixture does not contain any substances that are assessed to be a PBT or vPvB.  
Based on available data, the classification criteria are not met.

**PMT/vPvM**

This mixture does not contain any substances that are assessed to be a PMT or vPvM.  
Based on available data, the classification criteria are not met.

**12.6. Endocrine disrupting properties**

No data available.

**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.

Waste code

080409

**SECTION 14: Transport information**

**14.1. UN number or ID number**

ADR	1950
RID	1950
ADN	1950
IMDG	1950
IATA	1950

**14.2. UN proper shipping name**

ADR	AEROSOLS
RID	AEROSOLS
ADN	AEROSOLS
IMDG	AEROSOLS
IATA	Aerosols, flammable

**14.3. Transport hazard class(es)**

ADR	2.1
RID	2.1
ADN	2.1
IMDG	2.1
IATA	2.1

**14.4. Packing group**

ADR	
RID	
ADN	
IMDG	
IATA	

**14.5. Environmental hazards**

ADR	Environmentally Hazardous
RID	Environmentally Hazardous
ADN	Environmentally Hazardous
IMDG	Environmentally Hazardous
IATA	not applicable

**14.6. Special precautions for user**

ADR	not applicable Tunnelcode: (D)
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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**

No information available:

Ozone Depleting Substance (ODS) (Regulation (EC) No 2024/590):	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:

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H301 Toxic if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H332 Harmful if inhaled.
- H336 May cause drowsiness or dizziness.
- H350 May cause cancer.
- H361 Suspected of damaging fertility or the unborn child.
- H361f Suspected of damaging fertility.
- H372 Causes damage to organs through prolonged or repeated exposure.
  
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms:

- ADG(-Code): Australian Dangerous Goods (Code)
- ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
- ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
- ASTM: American Society for Testing and Materials
- ATE: acute toxicity estimate
- AS: Australian Standard
- AwSV: Ordinance on Installations for the Handling of Substances Hazardous to Water
- CAS: Chemical Abstract Service
- CLP: Regulation (EC) No 1272/2008
- CMR: cancerogenic, mutagenic or reprotoxic
- DIN: German Institute for Standardization
- ECx: Effective concentration (x% effective level)
- ECHA: European Chemicals Agency
- EC-Nummer: Substance number in the EU-inventories EINECS/ELINCS
- ECTLV: European community threshold limit value
- ED: Substance identified as having endocrine disrupting properties
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- EN : European Standard
- ENCS: Japanese chemical inventory
- EPA: US Environmental Protection Agency
- EU: European Union
- EU EXPLD1: Substance listed in Annex I, Reg (EC) No. 2019/1148
- EU EXPLD2: Substance listed in Annex II, Reg (EC) No. 2019/1148
- EWC: European Waste Catalogue
- GHS: Globally Harmonised System for Classification and Labelling of Chemicals
- GLP: Good Laboratory Practice
- HSNO: Hazardous Substances and New Organisms
- IARC: International Agency for Research of Cancer
- IATA: International Air Transport Association
- IBC-Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
- IC50: half maximal inhibitory concentration
- ICAO: International Civil Aviation Organization
- IMDG-Code: International Maritime Code for Dangerous Goods
- IMO: International Maritime Organization
- ISO: International Standardization Organisation
- LC50: Median lethal concentration
- LD50: Median lethal dose
- MARPOL: International Convention for the Prevention of Marine Pollution from Ships
- n.o.s.: not otherwise specified
- NO(A)EC: No (adverse) effect concentration
- NO(A)EL: No (adverse) effect level

NZS: New Zealand Standard  
OECD: Organisation for Economic Co-operation and Development  
OEL: Occupational Exposure Limit  
OPPT: US EPA Office of Pollution Prevention and Toxics  
OPPTS: US EPA Office of Prevention, Pesticides and Toxic Substances  
PBT: Persistent, bioaccumulative, toxic  
PMT: Persistent, mobile and toxic  
(Q)SAR: (Quantitative) structure–activity relationship  
REACH: Regulation (EC) No. 1907/2006  
RID: Regulations concerning the International Transport of Dangerous Goods by Rail  
SADT: Self Accelerating Decomposition Temperature  
SDS: Safety Data Sheet  
STOT: Specific Target Organ Toxicity  
STOT SE: Specific Target Organ Toxicity - single exposure  
STOT RE: Specific Target Organ Toxicity - repeated exposure  
SUSMP: Standard for the Uniform Scheduling of Medicines and Poisons  
SVHC: Substance of very high concern (REACH Candidate List)  
TRGS: German Technical Rules for hazardous substances  
UN: United Nations  
VOC: Volatile Organic Compound  
814.018 VOC Reg CH: Swiss Ordinance 814.018 on the Incentive Tax on Volatile Organic Compounds  
vPvB: Very persistent, very bioaccumulative  
vPvM: Very persistent and very mobile  
VwVwS: Administrative Regulation on Substances Hazardous to Waters  
WGK: Water hazard class

**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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