

Pattex WT Gun foam

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

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SDS No.: 534269

V003.0 Revision: 13.04.2022

printing date: 14.04.2022

Replaces version from: 03.01.2022

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

1.1. Product identifier

Pattex WT Gun foam

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

Intended use:

Foam, 1-component with propellant gas

1.3. Details of the supplier of the safety data sheet

Henkel Ltd Adhesives Wood Lane End

HP24RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000 Fax-no.: +44 (1442) 278071

ua-productsafety.uk@henkel.com

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

1.4. Emergency telephone number

24 Hours Emergency Tel: +44 0 8701 906777 - For further general health & safety, technical and practical advice on this product, please call +44 (0) 1606 593933 or write to: Technical Services; Henkel Limited; Road 5; Winsford Industrial Estate; Winsford; Cheshire; CW7 3QY- Email: technical.services@henkel.co.uk

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.

Skin sensitizer Category 1

H317 May cause an allergic skin reaction.

Serious eye irritation Category 2

H319 Causes serious eye irritation.

Respiratory sensitization Category 1

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Specific target organ toxicity - single exposure Category 3

H335 May cause respiratory irritation.

Carcinogenicity Category 2

H351 Suspected of causing cancer.

Specific target organ toxicity - repeated exposure Category 2

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

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Contains Diphenylmethane diisocyanate, isomers and homologues

Signal word: Danger

Hazard statement: H222 Extremely flammable aerosol.

H229 Pressurized container: May burst if heated.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation. H351 Suspected of causing cancer.

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

Supplemental information As from 24 August 2023 adequate training is required before industrial or professional

use.

Further information: https://www.feica.eu/PUinfo

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.

P211 Do not spray on an open flame or other ignition source.

P260 Do not breathe vapours.

P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/eye protection. P251 Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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

2.3. Other hazards

Information according to XVII. 56 REACH

Persons already sensitised to diisocy anates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

Pregnant women should absolutely avoid inhalation and skin contact.

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

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

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
dimethyl ether 115-10-6 204-065-8 01-2119472128-37	10- 20 %	Flam. Gas 1A, H220 Press. Gas Liquef. Gas, H280		EU OEL
4,4'- methylenediphenyl diisocyanate 101-68-8 202-966-0 01-2119457014-47	5- < 10 %	Carc. 2, H351 Acute Tox. 4, Inhalation, H332 STOT RE 2, H373 Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317	Eye Irrit. 2; H319; C >= 5 % Skin Irrit. 2; H315; C >= 5 % Resp. Sens. 1; H334; C >= 0,1 % STOT SE 3; H335; C >= 5 %	
Isobutane 75-28-5 200-857-2 01-2119485395-27	1- < 5 %	Flam. Gas 1A, H220 Press. Gas Liquef. Gas, H280		
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4 01-2119486772-26	1- < 5 %	Acute Tox. 4, Oral, H302 Aquatic Chronic 3, H412		
MDI homopolymer 25686-28-6 500-040-3 500-040-3 01-2119457013-49	1- < 5 %	Acute Tox. 4, Inhalation, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335 Carc. 2, H351 STOT RE 2, Inhalation, H373	Resp. Sens. 1; H334; C>= 0,1 % Eye Irrit. 2; H319; C>= 5 % Skin Irrit. 2; H315; C>= 5 % STOT SE 3; H335; C>= 5 %	
Propane 74-98-6 200-827-9 01-2119486944-21	1- < 5 %	Flam. Gas 1A, H220 Press. Gas H280		

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:

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.

Causes serious eye irritation.

May cause an allergic skin reaction.

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

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released. In the event of fire, isocyanate vapors may be formed.

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.

Avoid contact with skin and eyes.

Ensure adequate ventilation.

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

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.

Remove any dirt that gets onto the skin with vegetable oil; skin care.

7.2. Conditions for safe storage, including any incompatibilities

For pressurized can: protect from direct sunshine and temperatures above 50°C.

Store in a cool, dry place.

Ensure that storage and workrooms are adequately ventilated.

Avoid strictly temperatures below - 20 °C and above + 50 °C.

Protect from direct sunlight.

Storage at 5 to 25°C is recommended.

Do not store or use near heat, spark, open flame or other sources of ignition.

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

Do not store together with oxidants.

Do not store together with flammable solutions.

7.3. Specific enduse(s)

Foam, 1-component with propellant gas

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Great Britain

In gre dient [Regulated substance]	ppm	mg/m ³	Value type	Shortterm exposure limit category/Remarks	Regulatory list
Dimethyl ether 115-10-6 [DIMETHYLETHER]	400	766	Time Weighted Average (TWA):		EH40 WEL
Dimethyl ether 115-10-6 [DIMETHYLETHER]	1.000	1.920	Time Weighted Average (TWA):	Indicative	ECTLV
Dimethyl ether 115-10-6 [DIMETHYLETHER]	500	958	Short Term Exposure Limit (STEL):	15 minutes	EH40 WEL
4,4'-Methylenediphenyl diisocyanate 101-68-8 [ISOCYANATES, ALL (AS-NCO)]		0,02	Time Weighted Average (TWA):		EH40 WEL
4,4'-Methylenediphenyl diisocyanate 101-68-8 [ISOCYANATES, ALL (AS-NCO)]		0,07	Short Term Exposure Limit (STEL):	15 minutes	EH40 WEL
4,4'-Methylenediphenyl diisocyanate, homopolymer 25686-28-6 [ISOCYANATES, ALL (AS-NCO)]		0,02	Time Weighted Average (TWA):		EH40 WEL
4,4'-Methylenediphenyl diisocyanate, homopolymer 25686-28-6 [ISOCYANATES, ALL (AS-NCO)]		0,07	Short Term Exposure Limit (STEL):	15 minutes	EH40 WEL

Occupational Exposure Limits

Valid for

Ireland

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category/Remarks	Regulatorylist
Dimethyl ether 115-10-6 [DIMETHYLETHER]	1.000	1.920	Time Weighted Average (TWA):	Indicative OELV	IR_OEL
Dimethyl ether 115-10-6 [DIMETHYLETHER]	1.000	1.920	Time Weighted Average (TWA):	Indicative	ECTLV
4,4'-Methylenediphenyl diisocyanate 101-68-8 [4,4'-METHYLENE-DIPHENYL DIISOCYANATE (AS -NCO)]	0,005		Time Weighted Average (TWA):		IR_OEL
4,4'-Methylenediphenyl diisocyanate 101-68-8 [ISOCYANATES, ALL, EXCEPT METHYLISOCYANATE (CAS NO. 624- 83-9) AND TOLUENE (2,4 OR 2,6 DIISOCYANATE (CAS NO. 584-84-9, 91- 08-7)]		0,02	Time Weighted Average (TWA):		IR_OEL
4,4'-Methylenediphenyl diisocyanate 101-68-8 [ISOCYANATES, ALL, EXCEPT METHYL ISOCYANATE (CAS NO. 624- 83-9) AND TOLUENE (2,4 OR 2,6 DIISOCYANATE (CAS NO. 584-84-9, 91- 08-7)]		0,07	Short Term Exposure Limit (STEL):	15 minutes	IR_OEL
Isobutane 75-28-5 [ISOBUT ANE]	1.000		Short Term Exposure Limit (STEL):	15 minutes	IR_OEL
4,4'-Methylenediphenyl diisocyanate, homopolymer 25686-28-6 [ISOCYANATES, ALL, EXCEPT		0,02	Time Weighted Average (TWA):		IR_OEL

METHYL ISOCYANATE (CASNO. 624-83-9) AND TOLUENE (2,4 OR 2,6 DISOCYANATE (CASNO. 584-84-9, 91-				
08-7)] 4,4'-Methylenediphenyl diisocyanate, homopolymer 25686-28-6 [ISOCYANATES, ALL, EXCEPT METHYL ISOCYANATE (CASNO. 624-	0,07	Short Term Exposure Limit (STEL):	15 minutes	IR_OEL
83-9) AND TOLUENE (2,4 OR 2,6 DIISOCYANATE (CASNO. 584-84-9, 91- 08-7)]				

Predicted No-Effect Concentration (PNEC):

Dimethyl ether 115-10-6	aqua	реттоа	mg/l	ppm	mg/kg	others	
115-10-6	adila		mg/i				
115-10-6			0,155 mg/l	PP	mg/Kg	others	
	(freshwater)		0,133 iiig1				
Dimethyl ether	sediment				0,681		
115-10-6	(freshwater)				mg/kg		
Dimethylether	Soil				0,045		
115-10-6	1				mg/kg		
Dimethyl ether	sewage		160 mg/l		88		
	treatment plant		1				
	(STP)						
Dimethyl ether	aqua (marine		0,016 mg/l				
115-10-6	water)		, ,				
Dimethyl ether	aqua		1,549 mg/l				
115-10-6	(intermittent						
	releases)						
Dimethyl ether	sediment				0,069		
115-10-6	(marine water)				mg/kg		
4,4'- methylenediphenyl diisocyanate	aqua		1 mg/l				
101-68-8	(freshwater)						
4,4'- methylenediphenyl diisocyanate	aqua (marine		0,1 mg/l				
101-68-8	water)			<u></u>			
4,4'- methylenediphenyl diisocyanate	Soil				1 mg/kg		
101-68-8	 <u> </u>	<u></u>					
4,4'- methylenediphenyl diisocyanate	sewage		1 mg/l				
	treatment plant		_		1		
	(STP)						
4,4'- methylenediphenyl diisocyanate	Air						no hazard identified
101-68-8	ļ						
4,4'- methylenediphenyl diisocyanate	Predator						no potential for
101-68-8	ļ						bioaccumulation
4,4'- methylenediphenyl diisocyanate	aqua		10 mg/l				
101-68-8	(intermittent						
	releases)						
	aqua		0,51 mg/l				
with propylene oxide	(intermittent						
	releases)						
	oral				11,6 mg/kg		
with propylene oxide	ļ						
1244733-77-4							
	aqua (marine		0,032 mg/l				
with propylene oxide	water)						
1244733-77-4	ļ						
	aqua		0,32 mg/l				
with propylene oxide	(freshwater)						
1244733-77-4	<u> </u>		101 /				
	sewage		19,1 mg/l				
	treatment plant						
1244733-77-4 Phosphorous oxychloride, reaction products	(STP)				1 15 //		
	sediment		1		1,15 mg/kg		
with propylene oxide 1244733-77-4	(marine water)				1		
	andim or t		+		11 5 0		
Phosphorous oxychloride, reaction products with propylene oxide	sediment (freshwater)				11,5 mg/kg		
1244733-77-4	(11esiiwater)		1				
	Soil				0,34 mg/kg		
with propylene oxide	2011				0,54 mg/kg		
1244733-77-4	ļ				1		
4,4'-Methylenediphenyl diisocyanate,	aqua		1 mg/l		+		
homopolymer	(freshwater)		1 1118/1				
25686-28-6	(110011 watter)				1		
4,4'-Methylenediphenyl diisocyanate,	aqua (marine		0,1 mg/l				
homopolymer	water)		,,, iiig/i		1		
25686-28-6					1		
4,4'-Methylenediphenyl diisocyanate,	Soil		+		1 mg/kg		
homopolymer	5011				I IIIg/Kg		
25686-28-6	ļ		1				
	sewage		1 mg/l		+		
4.4'-Methylenedinhenyl diisocyanate			4 444 5-/-1		1	1	İ
4,4'-Methylenediphenyl diisocyanate, homopolymer							
	treatment plant (STP)						

homopolymer	(intermittent			
25686-28-6	releases)			

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Dimethyl ether	Workers	inhalation	Longterm	Hille	1894 mg/m3	
115-10-6	W OIKEIS	mmunution	exposure -		10) ingms	
113 10 0			systemic effects			
Dimethyl ether	General	inhalation	Longterm		471 mg/m3	
115-10-6	population		exposure -		8	
	P · P ······		systemic effects			
4,4'- methylenediphenyl diisocyanate	Workers	inhalation	Longterm		0,05 mg/m3	no hazard identified
101-68-8			exposure - local		, ,	
			effects			
4,4'- methylenediphenyl diisocyanate	Workers	inhalation	Acute/short term		0,1 mg/m3	no hazard identified
101-68-8			exposure - local			
			effects			
4,4'- methylenediphenyl diisocyanate	General	inhalation	Longterm		0,025 mg/m3	no hazard identified
101-68-8	population		exposure - local			
			effects			
4,4'- methylenediphenyl diisocyanate	General	inhalation	Acute/short term		0,05 mg/m3	no hazard identified
101-68-8	population		exposure - local			
			effects			
Phosphorous oxychloride, reaction products	Workers	Inhalation	Longterm		8,2 mg/m3	
with propylene oxide			exposure -			
1244733-77-4			systemic effects			
	Workers	Inhalation	Acute/short term		22,6 mg/m3	
with propylene oxide			exposure -			
1244733-77-4			systemic effects			
Phosphorous oxychloride, reaction products	Workers	dermal	Longterm		2,91 mg/kg	
with propylene oxide			exposure -			
1244733-77-4			systemic effects			
Phosphorous oxychloride, reaction products	General	inhalation	Longterm		1,45 mg/m3	
with propylene oxide	population		exposure -			
1244733-77-4			systemic effects			
Phosphorous oxychloride, reaction products	General	inhalation	Acute/short term		5,6 mg/m3	
with propylene oxide	population		exposure -			
1244733-77-4			systemic effects			
Phosphorous oxychloride, reaction products	General	dermal	Longterm		1,04 mg/kg	
with propylene oxide	population		exposure -			
1244733-77-4	C	1	systemic effects		0.52	
Phosphorous oxychloride, reaction products	General population	oral	Long term exposure -		0,52 mg/kg	
with propylene oxide 1244733-77-4	population		systemic effects			
Phosphorous oxychloride, reaction products	General	oral	Acute/short term		2 ma/lra	
with propylene oxide	population	Orai	exposure -		2 mg/kg	
1244733-77-4	Population		systemic effects			
4,4'-Methylenediphenyl diisocyanate,	Workers	inhalation	Long term		0,05 mg/m3	
homopolymer	,, orkers	IIIIIIIIIIIIIIIII	exposure - local		0,05 mg/m5	
25686-28-6			effects			
4,4'-Methylenediphenyl diisocyanate,	Workers	inhalation	Acute/short term		0,1 mg/m3	
homopolymer			exposure - local			
25686-28-6			effects			
4,4'-Methylenediphenyl diisocyanate,	General	inhalation	Longterm		0,025 mg/m3	
homopolymer	population		exposure - local			
25686-28-6	[effects			
4,4'-Methylenediphenyl diisocyanate,	General	inhalation	Acute/short term		0,05 mg/m3	
homopolymer	population		exposure - local			
25686-28-6	- *		effects			

Biological Exposure Indices:

Ingredient [Regulated	Parameters	Biological	Samplingtime	Conc.	Basis of biol.	Remark	Additional
substance]		specimen			e xposure index		Information
4,4'-Methylenediphenyl	Isocyanate-	Creatininein	Sampling time: At the		UKEH40BMG		
diisocyanate	derived	urine	end of the period of		V		
101-68-8	diamine		exposure.				
[ISOCYANATES (APPLIESTO			•				
HDI, IPDI, TDI AND MDI)]							
4,4'-Methylenediphenyl	Isocyanate-	Creatininein	Sampling time: At the		UKEH40BMG		·
diisocyanate, homopolymer	derived	urine	end of the period of		V		
25686-28-6	diamine		exposure.				
[ISOCYANATES(APPLIESTO							
HDI, IPDI, TDI AND MDI)]							

8.2. Exposure controls:

Respiratory protection:

The product should only be used at workplaces with intensive ventilation/extraction. If intensive ventilation/extraction is not possible then self-contained independent respiratory protection should be worn.

Hand protection:

Use attached gloves. Perforation time < 5 minutes.

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

Physical state liquid

Delivery form pressurized can Colour white

Odor ether-like
Initial boiling point -42 °C (-43.6 °F)

Explosive limits

lower 2,1 %(V); upper 24,4 %(V);

Flash point -104 °C (-155.2 °F)

pH Not applicable, Product reacts with water.

Solubility (qualitative) Not soluble

(20 °C (68 °F); Solvent: Water)

Solubility (qualitative) Reacts slowly with water to liberate carbon dioxide gas.

(20 °C (68 °F); Solvent: Water)

Vapour pressure 0,5 MPa

(20 °C (68 °F))

Density 1 g/cm3 no method

(20 °C (68 °F))

Relative vapour density: 1,7

(20 °C)

9.2. Other information

Other information not applicable for this product

SECTION 10: Stability and reactivity

10.1. Reactivity

Pressure build-up in closed containers. Reaction with water, alcohols, amines. Reaction with water, formation of CO2

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Humidity

Temperatures over appr. 50 $^{\circ}\text{C}$

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

At higher temperatures isocy anate may be released.

Carbon dioxide is generated under contact with moisture, leading to pressure in the cans. Danger of cans bursting!

SECTION 11: Toxicological information

General toxicological information:

Cross-reactions with other isocy anate compounds are possible.

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	Value	Value	Species	Method
CAS-No.	type			
4,4'- methylenediphenyl	LD50	> 2.000 mg/kg	rat	other guideline:
diisocyanate				
101-68-8				
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	LD50	632 mg/kg	rat	EU Method B.1 (Acute Toxicity (Oral))
MDI homopolymer	LD50	> 5.000 mg/kg	rat	OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down
25686-28-6				Procedure)

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
4,4'- methylenediphenyl diisocyanate 101-68-8	LD50	> 9.400 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
MDI homopolymer 25686-28-6	LD50	> 9.400 mg/kg	rabbit	equivalent or similar to 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.

Hazardous substances	Value	Value	Test atmosphere		Species	Method
CAS-No.	type			time		
dimethyl ether	LC50	164000 ppm	gas	4 h	rat	not specified
115-10-6						
Isobutane	LC50	260200 ppm	gas	4 h	mouse	not specified
75-28-5						_
Phosphorous oxychloride,	LC50	> 7 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute
reaction products with						Inhalation Toxicity)
propylene oxide						
1244733-77-4						
Propane	LC50	> 800000 ppm	gas	15 min	rat	not specified
74-98-6						

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		
4,4'- methylenediphenyl diisocyanate 101-68-8	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
MDI homopolymer 25686-28-6	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

No data available.

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.				
4,4'- methylenediphenyl	sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
diisocyanate				
101-68-8				
MDI homopolymer	sensitising	Guinea pig maximisation	guinea pig	OECD Guideline 406 (Skin Sensitisation)
25686-28-6		test		
MDI homopolymer	sensitising	Respiratory sensitisation	rat	not specified
25686-28-6				

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
dimethyl ether 115-10-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
dimethyl ether 115-10-6	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
dimethyl ether 115-10-6	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
4,4'- methylenediphenyl diisocyanate 101-68-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		EU Method B.13/14 (Mutagenicity)
Isobutane 75-28-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Isobutane 75-28-5	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
MDI homopolymer 25686-28-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Propane 74-98-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Propane 74-98-6	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
dimethylether 115-10-6	negative	inhalation: gas		Drosophila melanogaster	equivalent or similar to OECD Guideline 477 (Genetic Toxicology: Sex-linked Recessive Lethal Test in Dros melanog.)
4,4'- methylenediphenyl diisocyanate 101-68-8	negative	inhalation		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Isobutane 75-28-5	negative	oral: feed		Drosophila melanogaster	not specified
Isobutane 75-28-5	negative	inhalation: gas		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
MDI homopolymer 25686-28-6	negative	inhalation: aerosol		rat	OECD Guideline 489 (In Vivo Mammalian Alkaline Comet Assay)
MDI homopolymer 25686-28-6	negative	inhalation		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Propane 74-98-6	negative			Drosophila melanogaster	not specified
Propane 74-98-6	negative	inhalation: gas		rat	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
dimethyl ether 115-10-6	not carcinogenic	inhalation	2 y 6 h/d, 5 d/w	rat	male/female	equivalent or similar OECD Guideline 453 (Combined Chronic Toxicity/ Carcinogenicity Studies)
4,4'- methylenediphenyl diisocyanate 101-68-8	carcinogenic	inhalation: aerosol	2 y 6 h/d	rat	male/female	OECD Guideline 453 (Combined Chronic Toxicity/ Carcinogenicity Studies)
MDI homopolymer 25686-28-6	carcinogenic	inhalation: aerosol	2 y 6 h/d, 5 d/w	rat	male/female	equivalent or similar OECD Guideline 453 (Combined Chronic Toxicity/ 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
dimethyl ether 115-10-6	NOAEL P 2.5 %	other	inhalation	rat	other guideline:
Isobutane 75-28-5	NOAEL P 21,4 mg/l NOAEL F1 21,4 mg/l	screening	inhalation: gas	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction/ Developmental Toxicity Screening Test)
MDI homopolymer 25686-28-6	NOAEL P 2.03 mg/m3 NOAEL F1 2.03 mg/m3	screening	inhalation	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction/ Developmental Toxicity Screening Test)
Propane 74-98-6	NOAEL P 21,6 mg/l NOAEL F1 21,6 mg/l	screening	inhalation: gas	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction/ Developmental Toxicity Screening Test)

STOT-single exposure:

No data available.

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

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
dimethyl ether 115-10-6	NOAEL 2.5 %	inhalation	2 y 6 h/d; 5 d/w	rat	equivalent or similarto OECD Guideline 452 (Chronic Toxicity Studies)
4,4'- methylenediphenyl diisocyanate 101-68-8	NOAEL 0,0002 mg/l	inhalation: aerosol	main: 2 y; satellite:1 y 6 h/d; 5 d/w	rat	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
Isobutane 75-28-5	NOAEL 9000 ppm	inhalation: gas	28 d 6 h/d, 7 d/w	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
MDI homopolymer 25686-28-6	NOAEL 0.2 mg/m3	inhalation: aerosol	2 y 6 h/d; 5 d/w	rat	equivalent or similar to OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
Propane 74-98-6		inhalation: gas	28 d 6 h/d, 7 d/w	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

Aspiration hazard:

No data available.

11.2 Information on other hazards

not applicable

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	Value	Exposure time	Species	Method
dimethylether 115-10-6	LC50	> 4.000 mg/l	96 h	Poecilia reticulata	OECD Guideline 203 (Fish, Acute Toxicity Test)
4,4'- methylenediphenyl diisocyanate 101-68-8	LC50	> 1.000 mg/l	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	LC50	56,2 mg/l		Brachydanio rerio (new name: Danio rerio)	other guideline:
MDI homopolymer 25686-28-6	LC50	> 1.000 mg/l	96 h	Danio rerio	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 CAS-No.	Value	Value	Exposure time	Species	Method
dimethyl ether	EC50	> 4.000 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute
4,4'- methylenediphenyl diisocyanate 101-68-8	EC50	129,7 mg/l	24 h	Daphnia magna	Immobilisation Test) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	EC50	131 mg/l	48 h	Daphnia magna	not specified
MDI homopolymer 25686-28-6	EC50	129,7 mg/l	24 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Chronic toxicity to aquatic invertebrates

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
4,4'- methylenediphenyl diisocyanate 101-68-8	ÑOEC	10 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	NOEC	32 mg/l	21 d	Daphnia magna	OECD Guideline 202 (Daphnia sp. Chronic Immobilisation Test)
MDI homopolymer 25686-28-6	NOEC	10 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

Toxicity (Algae):

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				
dimethyl ether	EC50	> 1.000 mg/l	72 h	not specified	OECD Guideline 201 (Alga,
115-10-6					Growth Inhibition Test)
4,4'- methylenediphenyl	EC50	> 1.640 mg/l	72 h	Scenedesmus subspicatus (new	OECD Guideline 201 (Alga,
diisocyanate				name: Desmodesmus	Growth Inhibition Test)
101-68-8				subspicatus)	
4,4'- methylenediphenyl	NOELR	1.640 mg/l	72 h	Scenedesmus subspicatus (new	OECD Guideline 201 (Alga,
diisocyanate				name: Desmodesmus	Growth Inhibition Test)
101-68-8				subspicatus)	
Phosphorous oxychloride,	EC50	82 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga,
reaction products with					Growth Inhibition Test)
propylene oxide					
1244733-77-4					
Phosphorous oxychloride,	NOEC	13 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga,
reaction products with					Growth Inhibition Test)
propylene oxide					
1244733-77-4					
MDI homopolymer	EC50	> 1.640 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga,
25686-28-6					Growth Inhibition Test)
MDI homopolymer	NOEC	1.640 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga,
25686-28-6					Growth Inhibition Test)

Toxicity to microorganisms

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

Haz ardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
dimethylether 115-10-6	EC10	> 1.600 mg/l	30 min	Pseudomonas putida	DIN 38412, part 27 (Bacterial oxygen consumption test)
4,4'- methylenediphenyl diisocyanate 101-68-8	EC50	> 100 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	EC 50	784 mg/l	3 h	activated sludge	ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge)
MDI homopolymer 25686-28-6	EC50	> 100 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

12.2. Persistence and degradability

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
dimethyl ether 115-10-6	readily biodegradable	aerobic	> 60 %	28 d	OECD 301 A - F
4,4'- methylenediphenyl diisocyanate 101-68-8	not readily biodegradable.	aerobic	0 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Isobutane 75-28-5	readily biodegradable	aerobic	71,43 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	not readily biodegradable.	aerobic	14 %	28 day	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
MDI homopolymer 25686-28-6	not readily biodegradable.	aerobic	> 0 - < 60 %	28 d	OECD 301 A - F
MDI homopolymer 25686-28-6	not inherently biodegradable	aerobic	0 %	28 d	OECD Guideline 302 C (Inherent Biodegradability: Modified MITI Test (II))
Propane 74-98-6	readily biodegradable	aerobic	> 60 %	28 d	OECD 301 A - F

12.3. Bioaccumulative potential

Hazardous substances CAS-No.	Bioconcentratio n factor (BCF)	Exposure time	Temperature	Species	Method
4,4'- methylenediphenyl diisocyanate 101-68-8	92 - 200	28 d		Cyprinus carpio	OECD Guideline 305 E (Bioaccumulation: Flow-through Fish Test)
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	0,8 - < 14	42 d		Cyprinus carpio	OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)
MDI homopolymer 25686-28-6	> 92 - 200	28 d		Cyprinus carpio	OECD Guideline 305 E (Bioaccumulation: Flow-through Fish Test)

12.4. Mobility in soil

Hazardous substances	LogPow	Temperature	Method
CAS-No.			
dimet hyl ether	0,07	25 °C	QSAR (Quantitative Structure Activity Relationship)
115-10-6			
4,4'- methylenediphenyl diisocyanate 101-68-8	4,51	22 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Isobutane 75-28-5	2,88	20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	2,68	30 °C	EU Method A.8 (Partition Coefficient)

12.5. Results of PBT and vPvB assessment

Haz ardous substances	PBT/ vPvB
CAS-No.	
dimet hyl ether	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
115-10-6	Bioaccumulative (vPvB) criteria.
4,4'- methylenediphenyl diisocyanate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
101-68-8	Bioaccumulative (vPvB) criteria.
Isobutane	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
75-28-5	Bioaccumulative (vPvB) criteria.
Phosphorous oxychloride, reaction products	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
with propylene oxide	Bioaccumulative (vPvB) criteria.
1244733-77-4	
MDI homopolymer	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
25686-28-6	Bioaccumulative(vPvB) criteria.
Propane	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
74-98-6	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.

Waste code

160504 gases in pressure containers (including halons) containing dangerous substances

SECTION 14: Transport information

14.1. UN 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	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.6. Special precautions for user

ADR	not applicable
	Tunnelcode: (D)
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

No information available:

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

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

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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.

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

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

H412 Harmful to aquatic life with long lasting effects.

ED: Substance identified as having endocrine disrupting properties

EU OEL: Substance with a Union workplace exposure limit
EU EXPLD 1: Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2 Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC: Substance of very high concern (REACH Candidate List)
PBT: Substance fulfilling persistent, bioaccumulative and toxic criteria

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

bioaccumulative criteria

vPvB: Substance fulfilling very persistent and very bioaccumulative criteria

Further information:

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