

SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2015/830

Genius Gun Plasterboard Adhesive

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

1.1. Product identifier

Product name Registration number REACH Product type REACH

- : Genius Gun Plasterboard Adhesive : Not applicable (mixture)
- : Mixture

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

1.2.1 Relevant identified uses polyurethane

1.2.2 Uses advised against No uses advised against known

1.3. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

SOUDAL N.V. Everdongenlaan 18-20 B-2300 Turnhout **2** +32 14 42 42 31 +32 14 42 65 14 msds@soudal.com

Manufacturer of the product

SOUDAL N.V. Everdongenlaan 18-20 B-2300 Turnhout T +32 14 42 42 31 +32 14 42 65 14 msds@soudal.com

1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch):

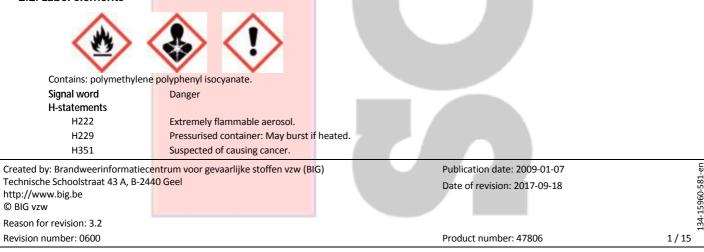
+32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Class	Category	Hazard statements
Aerosol	category 1	H222: Extremely flammable aerosol.
Aerosol	category 1	H229: Pressurised container: May burst if heated.
Carc.	category 2	H351: Suspected of causing cancer.
Resp. Sens.	categ <mark>ory 1</mark>	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens.	categ <mark>ory 1</mark>	H317: May cause an allergic skin reaction.
Acute Tox.	categ <mark>ory 4</mark>	H332: Harmful if inhaled.
STOT RE	categ <mark>ory 2</mark>	H373: May cause damage to organs through prolonged or repeated exposure if inhaled.
Skin Irrit.	categ <mark>ory 2</mark>	H315: Causes skin irritation.
Eye Irrit.	category 2	H319: Causes serious eye irritation.
STOT SE	category 3	H335: May cause respiratory irritation.

2.2. Label elements



H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
P-statements	
P101	If medical advice is needed, have product container or label at hand.
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.
P251	Do not pierce or burn, even after use.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122°F.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation.
Supplemental informati	o <mark>n</mark>
	- Persons already sensitised to diisocyanates 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.

2.3. Other hazards

Gas/vapour spreads at floor level: ignition hazard

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name REACH Registration No		CAS No EC No	 Conc. (C)	Classification according to CLP	Note	Remark
propane 01-2119486944-21		74-98-6 200-827-9		Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant
isobutane 01-2119485395-27		75-28-5 200-857-2		Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant
dimethyl ether 01-2119472128-37		115-10-6 204-065-8		Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant
reaction mass of tris(2-chloropr tris(2-chloro-1-methylethyl) pho phosphoric acid, bis(2-chloro-1- chloropropyl ester and phospho methylethyl bis(2-chloropropyl) 01-2119486772-26	osphate and methylethyl) 2- pric acid, 2-chloro-1-		1% <c<25%< td=""><td>Acute Tox. 4; H302</td><td>(1)(10)</td><td>Constituent</td></c<25%<>	Acute Tox. 4; H302	(1)(10)	Constituent
polymethylene polyphenyl isocy	/anate	9016-87-9		Carc. 2; H351 Resp. Sens. 1; H334 Skin Sens. 1; H317 Acute Tox. 4; H332 STOT RE 2; H373 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	(1)(2)(8)(10)(18)	Constituent
(1,3-butadiene, conc<0.1%)						

(1) For H-statements in full: see heading 16

(2) Substance with a Community workplace exposure limit

(8) Specific concentration limits, see heading 16

(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

(18) Polymethylene polyphenyl isocyanate, contains > 0.1% MDI-isomers

Reason for revision: 3.2

SECTION 4: First aid measures

4.1. Description of first aid measures

General

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

After skin contact:

Wash immediately with lots of water. Take victim to a doctor if irritation persists.

After eve contact:

Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

After ingestion:

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Consult a doctor/medical service if you feel

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

4.2.1 Acute symptoms

After inhalation:

Dry/sore throat. Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Runny nose. FOLLOWING SYMPTOMS MAY APPEAR LATER: Possible inflammation of the respiratory tract. Risk of lung oedema. Respiratory difficulties.

After skin contact: Tingling/irritation of the skin. After eye contact:

Irritation of the eye tissue. Lacrimation. After ingestion: Not applicable.

- 4.2.2 Delayed symptoms No effects known.
- 4.3. Indication of any immediate medical attention and special treatment needed If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher.

5.1.2 Unsuitable extinguishing media:

Small fire: Quick-acting CO2 extinguisher, Water (water can be used to control jet flame), Foam. Major fire: Water (water can be used to control jet flame), Foam.

5.2. Special hazards arising from the substance or mixture

On burning: release of toxic and corrosive gases/vapours (phosphorus oxides, nitrous vapours, hydrogen chloride, carbon monoxide - carbon dioxide). Pressurised container: May burst if heated. May polymerize on exposure to temperature rise. On heating: release of toxic/combustible gases/vapours (hydrogen cyanide).

5.3. Advice for firefighters

5.3.1 Instructions:

If exposed to fire cool the closed containers by spraying with water. Physical explosion risk: extinguish/cool from behind cover. Do not move the load if exposed to heat. After cooling: persistant risk of physical explosion. Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water.

5.3.2 Special protective equipment for fire-fighters:

Gloves. Protective goggles. Head/neck protection. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment. 6.1.1 Protective equipment for non-emergency personnel See heading 8.2 6.1.2 Protective equipment for emergency responders Gloves. Protective goggles. Head/neck protection. Protective clothing. Suitable protective clothing See heading 8.2 6.2. Environmental precautions Reason for revision: 3.2 Publication date: 2009-01-07 Date of revision: 2017-09-18

Revision number: 0600

Product number: 47806

Dam up the solid spill. Use appropriate containment to avoid environmental contamination.

6.3. Methods and material for containment and cleaning up

Allow product to solidify and remove it by mechanical means. Carefully collect the spill/leftovers. Clean (treat) contaminated surfaces with acetone. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4. Reference to other sections

See heading 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1. Precautions for safe handling

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Gas/vapour heavier than air at 20°C. Observe very strict hygiene - avoid contact. Remove contaminated clothing immediately.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Storage temperature: < 50 °C. Store in a cool area. Keep out of direct sunlight. Ventilation at floor level. Fireproof storeroom. Unauthorized persons are not admitted. Meet the legal requirements. Max. storage time: 1 year(s).

7.2.2 Keep away from:

- Heat sources, ignition sources, (strong) acids, (strong) bases, amines.
- 7.2.3 Suitable packaging material:

Aerosol.

7.2.4 Non suitable packaging material:

No data available

7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

EU		
Dimethylether	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	1000 ppm
	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	1920 mg/m³
Belgium		
1,4'-Diisocyanate de diphénylméthane (MDI)	Time-weighted average exposure limit 8 h	0.005 ppm
	Time-weighted average exposure limit 8 h	0.052 mg/m ³
Hydrocarbures aliphatiqu <mark>es sous forme gazeuse : (Alcane</mark> 24)	es C1- Time-weighted average exposure limit 8 h	1000 ppm
Dxyde de diméthyle	Time-weighted average exposure limit 8 h	1000 ppm
	Time-weighted average exposure limit 8 h	1920 mg/m ³
The Netherlands		
Dimethylether	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	496 ppm
	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	950 mg/m ³
	Short time value (Public occupational exposure limit value)	783 ppm
	Short time value (Public occupational exposure limit value)	1500 mg/m³
France		
4,4'-Diisocyanate de diphénylméthane	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	0.01 ppm
	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	0.1 mg/m ³
	Short time value (VL: Valeur non réglementaire indicative)	0.02 ppm
	Short time value (VL: Valeur non réglementaire indicative)	0.2 mg/m³
Dxyde de diméthyle	Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative)	1000 ppm
	Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative)	1920 mg/m ³
revision: 3.2	Publication date: 2009-01-07	
	Date of revision: 2017-09-18	
imber: 0600	Product number: 47806	4

Reason

Germany							
4,4'-Methylendiphenyldiisocyar	nat		rage exposure limit 8 h (TRGS 900		0.05 mg/m ³		
Dimethylether			rage exposure limit 8 h (TRGS 900		1000 ppm		
			rage exposure limit 8 h (TRGS 900		1900 mg/m ³		
Isobutan			rage exposure limit 8 h (TRGS 900		1000 ppm		
			rage exposure limit 8 h (TRGS 900		2400 mg/m ³		
pMDI (als MDI berechnet)			rage exposure limit 8 h (TRGS 900		0.05 mg/m ³		
Propan			rage exposure limit 8 h (TRGS 900		1000 ppm		
		lime-weighted ave	rage exposure limit 8 h (TRGS 900	J)	1800 mg/m³		
ИК					1		
Dimethyl ether		(EH40/2005))	rage exposure limit 8 h (Workplac		400 ppm 766 mg/m ³		
		Time-weighted ave (EH40/2005))	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))				
		Short time value (W	/orkplace exposure limit (EH40/2	005))	500 ppm		
		Short time value (W	/orkplace exposure limit (EH40/2	005))	958 mg/m³		
Isocyanates, all (as -NCO) Excep	ot methyl isocyanate	Time-weighted ave (EH40/2005))	rage exposure limit 8 h (Workplac	ce exposure limit	0.02 mg/m ³		
		Short time value (W	/orkplace exposure limit (EH40/2	005))	0.07 mg/m ³		
USA (TLV-ACGIH)							
Butane, all isomers		Short time value (T			1000 ppm		
Methylene bisphenyl isoc <mark>yanate</mark>	e (MDI)	Time-weighted ave	rage exposure limit 8 h (TLV - Ado	opted Value)	0.005 ppm		
<u>b) National biological limit valu</u>	es						
If limit values are applicable and	l available these will be liste	<mark>ed b</mark> elow.					
1.2 Sampling methods							
Product name		Test	Number				
Isocyanates		NIOSH	5521				
Isocyanates		NIOSH	5522				
1.3 Applicable limit values when	using the substance or mix	kture as intended					
ester and phosphoric acid, 2-ch			hosphate and phosphoric acid, bi				
Effect lovel (DNEL (DMEL)		loropropyi) ester	Valua	Domorik			
Effect level (DNEL/DMEL)	Туре		Value	Remark			
Effect level (DNEL/DMEL) DNEL	Type Long-term systemic e	effects inhalation	5.82 mg/m ³	Remark	· · · · ·		
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	Type Long-term systemic of Acute systemic effec Long-term systemic of	effects inhalation ts inhalation effects dermal	5.82 mg/m³ 22.4 mg/m³ 2.08 mg/kg bw/day	Remark			
DNEL	Type Long-term systemic effec Acute systemic effec Long-term systemic effec Acute systemic effec	effects inhalation ts inhalation effects dermal	5.82 mg/m ³ 22.4 mg/m ³	Remark			
DNEL DNEL/DMEL - General populati reaction mass of tris(2-chloropr	Type Long-term systemic effec Long-term systemic effec Long-term systemic effec Acute systemic effec On opyl) phosphate and tris(2-	effects inhalation ts inhalation effects dermal ts dermal chloro-1-methylethyl) p	5.82 mg/m³ 22.4 mg/m³ 2.08 mg/kg bw/day				
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Reason for revision: 3.2

Publication date: 2009-01-07 Date of revision: 2017-09-18

Revision number: 0600

Product number: 47806

8.2.1 Appropriate engineering controls

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Measure the concentration in the air regularly.

8.2.2 Individual protection measures, such as personal protective equipment

Observe very strict hygiene - avoid contac	. Do not eat, drink or smoke during work	
a) Respiratory protection:		
Wear gas mask with filte <mark>r type A if conc. ir</mark>	air > exposure limit.	
b) Hand protection:		
Gloves.		
Materials	Breakthrough time	Thickness
LDPE (Low Density Poly <mark>Ethylene)</mark>	> 10 minutes	0.025 mm
- materials (good resistance)		
LDPE (Low Density Poly Ethylene).		
c) Eye protection:		
Protective goggles.		
d) Skin protection:		
Head/neck protection. Protective clothing		
8.2.3 Environmental exposure controls:		
See headings 6.2, 6.3 and 13		

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties Physical form Aerosol Odour Characteristic odour Odour threshold No data available Colour Variable in colour, depending on the composition No data available Particle size No data available Explosion limits Flammability Extremely flammable aerosol. Log Kow Not applicable (mixture) No data available Dynamic viscosity Kinematic viscosity No data available Melting point No data available Boiling point No data available Flash point No data available Evaporation rate No data available Relative vapour density >1 No data available Vapour pressure Solubility Water ; insoluble Organic solvents ; soluble Relative density 0.92 ; 20 °C No data available Decomposition temperature Auto-ignition temperature No data available Explosive properties No chemical group associated with explosive properties No chemical group associated with oxidising properties Oxidising properties No data available nН

9.2. Other information

Absolute density

920 kg/m³ ; 20 °C

SECTION 10: Stability and reactivity

10.1. Reactivity

May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

May polymerize with many compounds e.g.: (strong) bases and amines. Reacts violently with (some) acids/bases.

10.4. Conditions to avoid

Precautionary measures Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks.

10.5. Incompatible materials

(strong) acids, (strong) bases, amines.

10.6. Hazardous decomposition products

Reason for revision: 3.2

Publication date: 2009-01-07 Date of revision: 2017-09-18

On heating: release of toxic/combustible gases/vapours (hydrogen cyanide). On burning: release of toxic and corrosive gases/vapours (phosphorus oxides, nitrous vapours, hydrogen chloride, carbon monoxide - carbon dioxide).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1.1 Test results

Acute toxicity

Genius Gun Plasterboard Adhesive

No (test)data on the mixture available

Classification is based on the relevant ingredients

reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester

Route of exposure	Paramete	r Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	EU Method B.1 tris	632 mg/kg bw		Rat (female)	Experimental value	
Dermal	LD50	OECD 402	> 2000 mg/kg bw	24 h	Rat (male/female)	Experimental value	
Inhalation (aerosol)	LC50	OECD 403	> 7 mg/l	4 h	Rat (male/female)	Experimental value	

polymethylene polyphenyl isocyanate

Route of exposure	Parameter	Method	Value	Exposure time		Value determination	Remark
Oral	LD50		<mark>> 10000</mark> mg/kg		Rat	Literature study	
Dermal	LD50		<mark>> 5000 m</mark> g/kg		Rabbit	Literature study	
Inhalation (vapours)	LD50		10 mg/l - 20 mg/l	4 h	Rat	Literature study	
Inhalation			category 4			Literature study	

Conclusion

Harmful if inhaled.

Not classified as acute toxic in contact with skin

Not classified as acute toxic if swallowed

Corrosion/irritation

Genius Gun Plasterboard Adhesive

No (test)data on the mixture available

Classification is based on the relevant ingredients

reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irrit <mark>ating</mark>	OECD 405	24 h	7 days	Rabbit	Experimental value	
Skin	Not irrit <mark>ating</mark>	OECD 404	4 h	7 days	Rabbit	Experimental value	
olymethylene polypł	nenyl isocyanate						
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritatin <mark>g;</mark> categor <mark>y 2</mark>					Literature study	
Skin	Irritatin <mark>g;</mark> category 2					Literature study	
Inhalation	Irritating; STOT SE cat.3					Literature study	
Causes skin irritation. Causes serious eye irr May cause respiratory ratory or skin sensitis ius Gun Plasterboard	/ irritation. ation <u>Adhesive</u>						
No (test)data on the r Classification is based		ngredients					
n for revision: 3.2					Publication date: Date of revision:		
on number: 0600					Product number	• 47806	7

	er and phosphoric acid, 2-c <mark>hloro-1-methylethyl bis(2-chloroprog</mark> Route of exposure Result Method Expos		ure time	Observation time	Species	Value determ	ninationRem	Remark	
Skin			Слрозс		point	·		mationiten	
باعتد باعمد معامينا معد باعما	Not sensitizi	0				Mouse (female)	Experimental	value	
Polymethylene polyph Route of exposure		Method	Exposu	ure time	Observation time	Species	Value determ	ninationRem	nark
					point				
	Sensitizing; category 1						Literature stu	ıdy	
	Sensitizing;				_		Literature stu	ıdy	
Conclusion	category 1			_					
May cause allergy or a ific target organ toxicit nius Gun Plasterboard Jo (test)data on the mix Classification is based reaction mass of tris(2 ester and phosphoric a Route of exposure Oral (diet)	ty Adhesive xture availat on the relev -chloroprop acid, 2-chlor Paramete NOAEL	ble vant ingredients vyl) phosphate and co-1-methylethyl I r Method Subchronic toxicity test	d tris(2-chloro-1-i <u>pis(2-chloropropy</u> Value 171 mg/kg bw/day	methylethyl (<u>) ester</u> Organ	Effect No effect	Exposure time	Species Species) Rat (female	Val det) Exp val	ue e rminatior perimental ue
Oral (diet)	LOAEL	Subchronic toxicity test	52 mg/kg bw/day	Liver	Weight gain	13 weeks (daily) Rat (male)	Exp val	verimental ue
Inhalation (vapours)	Dose level		0.586 mg/l air		No effect		Mouse (mal		erimental
polymethylene polyph	ienyl isocyai	nate		1				var	
Route of exposure			Value	Organ	Effect	Exposure time	Species	Va	
Inhalation			STOT RE cat.2						ermination
agenicity (in vitro)									
		able							
No (test)data on the m	nixture avail		d tris(2-chloro-1-ı	methvlethvl) phosphate and pho	osphoric acid, bis(2	-chloro-1-met	hvlethvl) 2-c	hloropropy
	nixture avail -chloroprop	yl) phosphate and					-chloro-1-met	hylethyl) 2-c	hloropropy
No (test)data on the m reaction mass of tris(2 ester and phosphoric a Result	hixture avail -chloroprop acid, 2-chlor	oyl) phosphate and co-1-methylethyl I Method		<u>(l) ester</u> Test substr	ate E	osphoric acid, bis(2	Va	lue determi	nation
No (test)data on the m reaction mass of tris(2 ester and phosphoric a	nixture avail <u>-chloroprop</u> acid, 2-chlor cabolic e without	oyl) phosphate and o-1-methylethyl k		(l) ester	ate E		Va		nation
No (test)data on the m reaction mass of tris(2 ester and phosphoric a Result Negative with met activation, negativ metabolic activatio Negative without n activation, positive	nixture avail -chloroprop acid, 2-chlor abolic e without on metabolic e with	oyl) phosphate and co-1-methylethyl I Method		<u>(I) ester</u> Test substr Rat liver ce	ate E		Va Exț	lue determi	nation alue
reaction mass of tris(2 ester and phosphoric a Result Negative with met activation, negativ metabolic activatio Negative without n activation, positive metabolic activatio	nixture avail -chloroprop acid, 2-chlor abolic e without on metabolic e with	oyl) phosphate and ro-1-methylethyl b Method OECD 482		<u>() ester</u> Test substr Rat liver ce Mouse (lyn	ate E		Va Exț	lue determi i perimental v	nation alue
No (test)data on the m reaction mass of tris(2 ester and phosphoric a Result Negative with met activation, negativ metabolic activatio Negative without n activation, positive metabolic activatio agenicity (in vivo) enius Gun Plasterboard No (test)data on the m Judgement is based or reaction mass of tris(2	Adhesive Adhesive Adhesive Adhesive Adhesive Adhesive Adhesive Adhesive Adhesive	oyl) phosphate and ro-1-methylethyl H Method OECD 482 OECD 476 OECD 476 able nt ingredients oyl) phosphate and	bis(2-chloropropy	<u>() ester</u> Test substr Rat liver ce Mouse (lyn cells) methylethyl	ate F Ils nphoma L5178Y	Effect	Va Exp Exp	lue determin perimental v perimental v	nation alue alue
No (test)data on the m reaction mass of tris(2 ester and phosphoric a Result Negative with met activation, negativ metabolic activatio Negative without n activation, positive metabolic activatio agenicity (in vivo) nius Gun Plasterboard No (test)data on the m Judgement is based or reaction mass of tris(2 ester and phosphoric a	Adhesive Adhesive Adhesive Adhesive Adhesive Adhesive Adhesive Adhesive Adhesive	oyl) phosphate and ro-1-methylethyl H Method OECD 482 OECD 476 OECD 476 oECD 476 nt ingredients oyl) phosphate and ro-1-methylethyl H	bis(2-chloropropy	n) ester Test substr Rat liver ce Mouse (lyn cells) methylethyl n) ester	ate to the second secon	Effect	Va Exț Exț	lue determin perimental v perimental v hylethyl) 2-c	nation alue alue hloropropy
No (test)data on the m reaction mass of tris(2 ester and phosphoric a Result Negative with met activation, negativ metabolic activatio Negative without n activation, positive metabolic activatio agenicity (in vivo) nius Gun Plasterboard No (test)data on the m Judgement is based or reaction mass of tris(2	Adhesive Adhesive Adhesive Adhesive Adhesive Adhesive Adhesive Adhesive Adhesive	oyl) phosphate and ro-1-methylethyl H Method OECD 482 OECD 476 OECD 476 able nt ingredients oyl) phosphate and	bis(2-chloropropy d tris(2-chloro-1-i bis(2-chloropropy Expo	<u>() ester</u> Test substr Rat liver ce Mouse (lyn cells) methylethyl	ate F Ils nphoma L5178Y	effect	Va Exț Exț	lue determin perimental v perimental v hylethyl) 2-c Value d	nation alue alue
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No (test)data on the m reaction mass of tris(2 ester and phosphoric a Result Negative with met activation, negativ metabolic activatio Negative without n activation, positive metabolic activatio agenicity (in vivo) nius Gun Plasterboard No (test)data on the m Judgement is based or reaction mass of tris(2 ester and phosphoric a Result Negative Conclusion Not classified for muta	Adhesive Adhesive Adhesive Adhesive Adhesive Adhesive Adhesive Adhesive Adhesive	able out) phosphate and o-1-methylethyl H Method OECD 482 OECD 476 OECD 476 OECD 476 out ingredients oyl) phosphate and o-1-methylethyl H Method OECD 476	bis(2-chloropropy d tris(2-chloro-1-i bis(2-chloropropy Expo	n) ester Test substr Rat liver ce Mouse (lyn cells) methylethyl n) ester	ate to the second secon	effect	Va Exp Exp -chloro-1-met	lue determin perimental v perimental v hylethyl) 2-c Value d	hation alue alue hloropropy eterminatio
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Classification is based on the relevant ingredients

reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester

Route of	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
exposure								determination
Inhalation								Data waiving
Dermal								Data waiving
Oral								Data waiving
polymethylene	oolyphenyl isoc	vanate						_
Route of	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
exposure								determination
Unknown			category 2					Literature study
onclusion			· ·					•

Conclusion

Suspected of causing cancer.

Reproductive toxicity

Genius Gun Plasterboard Adhesive

No (test)data on the mixture available

Judgement is based on the relevant ingredients

reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester

	Parameter	Method	Value	Exposure time	Species	Effect	· J	Value determination
Developmental toxicity	LOAEL	OECD 416	99 mg/kg bw/day		Rat (female)	Embryotoxicity		Experimental value
Effects on fertility	LOAEL	OECD 416	99 mg/kg bw/day		Rat (male/female)	Weight changes	Female reproductive organ	Experimental value

Conclusion

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

<u>Genius Gun Plasterboard Adhesive</u> No (test)data on the mixture available

Chronic effects from short and long-term exposure

Genius Gun Plasterboard Adhesive

Feeling of weakness. Itching. Skin rash/inflammation. May stain the skin. Dry skin. Coughing. Possible inflammation of the respiratory tract. Respiratory difficulties.

SECTION 12: Ecological information

12.1. Toxicity

Genius Gun Plasterboard Adhesive

No (test)data on the mixture available

Judgement of the mixture is based on the relevant ingredients

reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	Other	56.2 mg/l	96 h	Brachydanio rerio	Static system	Fresh water	Experimental value; GLP
Acute toxicity crustacea	LC50		131 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	ErC50	OECD 201	82 mg/l	72 h	Pseudokirchnerie Ila subcapitata	Static system	Fresh water	Experimental value; GLP
Long-term toxicity fish								Data waiving
Long-term toxicity aquatic crustacea	NOEC	OECD 202	32 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; GLP
Toxicity aquatic micro- organisms	EC50	ISO 8192	784 mg/l	3 h	Activated sludge	Static system	Fresh water	Experimental value; GLP
for rovicion: 2.2					Dublicatio	n data: 2000 0	1 07	

Reason for revision: 3.2

Acute toxicity other aquatic organisms LC50 Toxicity aquatic micro- organisms EC50 OECD 20 Toxicity aquatic micro- organisms EC50 OECD 20 Inclusion Biodegradability Ecso Ecso Not classified as dangerous for the environment accordir Ecso Ecso Ecso 2.2. Persistence and degradability Ecso Ecso Ecso Ecso Ecso Biodegradation water Ecso Ecso <th>value value value<!--</th--><th>> 1000 mg/l 96 h > 100 mg/l Activated slue > 100 mg/l Activated slue ne criteria of Regulation (EC) No 1272/2008 ro-1-methylethyl) phosphate and phospho oropyl) ester Duration 28 day(s) Conc. OH-radicals 500000 /cm³ Duration Primary degradation/minera Primary degradation Duration</th><th>Activated sludge Literation Activated sludge Literation Activated sludge Literation Phate and phosphoric acid, bis(2-chloro-1-methylethyl) 2-ch Puration Value determination 8 day(s) Experimental value Onc. OH-radicals Value determination Outration Value determination 00000 /cm³ Calculated value Puration Value determination Outration Value determination Outration Value determination Puration Value determination Puration Value determination Puration Value determination Puration Experimental value Puration Value determination Experimental value Experimental value Puration Value determination Experimental value Experimental value</th><th>organisms Toxicity aquatic micro- organisms Inclusion ot classified as dangerous 2. Persistence and d action mass of tris(2-chlor</th><th>tic LC50 EC50 for the environm degradability ropropy() phosph</th><th>OECD</th><th>CD 209</th><th>> 1000 > 100 r</th><th>mg/I 96 ng/I ria of Regu</th><th>5 h</th><th>Activated sl</th><th>ludge</th><th></th><th></th><th>Value determ Literature stu Literature stu</th></th>	value value </th <th>> 1000 mg/l 96 h > 100 mg/l Activated slue > 100 mg/l Activated slue ne criteria of Regulation (EC) No 1272/2008 ro-1-methylethyl) phosphate and phospho oropyl) ester Duration 28 day(s) Conc. OH-radicals 500000 /cm³ Duration Primary degradation/minera Primary degradation Duration</th> <th>Activated sludge Literation Activated sludge Literation Activated sludge Literation Phate and phosphoric acid, bis(2-chloro-1-methylethyl) 2-ch Puration Value determination 8 day(s) Experimental value Onc. OH-radicals Value determination Outration Value determination 00000 /cm³ Calculated value Puration Value determination Outration Value determination Outration Value determination Puration Value determination Puration Value determination Puration Value determination Puration Experimental value Puration Value determination Experimental value Experimental value Puration Value determination Experimental value Experimental value</th> <th>organisms Toxicity aquatic micro- organisms Inclusion ot classified as dangerous 2. Persistence and d action mass of tris(2-chlor</th> <th>tic LC50 EC50 for the environm degradability ropropy() phosph</th> <th>OECD</th> <th>CD 209</th> <th>> 1000 > 100 r</th> <th>mg/I 96 ng/I ria of Regu</th> <th>5 h</th> <th>Activated sl</th> <th>ludge</th> <th></th> <th></th> <th>Value determ Literature stu Literature stu</th>	> 1000 mg/l 96 h > 100 mg/l Activated slue > 100 mg/l Activated slue ne criteria of Regulation (EC) No 1272/2008 ro-1-methylethyl) phosphate and phospho oropyl) ester Duration 28 day(s) Conc. OH-radicals 500000 /cm³ Duration Primary degradation/minera Primary degradation Duration	Activated sludge Literation Activated sludge Literation Activated sludge Literation Phate and phosphoric acid, bis(2-chloro-1-methylethyl) 2-ch Puration Value determination 8 day(s) Experimental value Onc. OH-radicals Value determination Outration Value determination 00000 /cm³ Calculated value Puration Value determination Outration Value determination Outration Value determination Puration Value determination Puration Value determination Puration Value determination Puration Experimental value Puration Value determination Experimental value Experimental value Puration Value determination Experimental value Experimental value	organisms Toxicity aquatic micro- organisms Inclusion ot classified as dangerous 2. Persistence and d action mass of tris(2-chlor	tic LC50 EC50 for the environm degradability ropropy() phosph	OECD	CD 209	> 1000 > 100 r	mg/I 96 ng/I ria of Regu	5 h	Activated sl	ludge			Value determ Literature stu Literature stu
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reaction mass of tris(2-chloropropyl) phosphate and tris(2-chloro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methylethyl) 2-chloropropyl ester and phosphoric acid, 2-chloro-1-methylethyl bis(2-chloropropyl) ester

(le	og) Koc									
	Parameter				Method			Value		Value determination
	log Koc				EU Meth	od C.19		2.76		Experimental value
Pe	ercent distribution									
	Method	Fraction air	Fraction biota	Fraction		Fraction s	ioil F	Fraction water	Value determ	ination
				sedimen	t					
	Mackay level I	0.01 %	0 %	3.55 %		3.52 %	9	92.89 %	Read-across	

Conclusion

Contains component(s) with potential for mobility in the soil

12.5. Results of PBT and vPvB assessment

Due to insufficient data no statement can be made whether the component(s) fulfil(s) the criteria of PBT and vPvB according to Annex XIII of Regulation (EC) No 1907/2006.

12.6. Other adverse effects

Genius Gun Plasterboard Adhesive

Fluorinated greenhouse gases (Regulation (EU) No 517/2014)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014) Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1. Waste treatment methods

13.1.1 Provisions relating to waste

European Union

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

08 05 01* (wastes not otherwise specified in 08: waste isocyanates).

16 05 04* (gases in pressure containers and discarded chemicals: gases in pressure containers (including halons) containing hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Specific treatment. Do not discharge into drains or the environment.

13.1.3 Packaging/Container

European Union

Waste material code packaging (Directive 2008/98/EC).

15 01 10* (packaging containing residues of or contaminated by dangerous substances).

SECTION 14: Transport information

Road (ADR)	
14.1. UN number	
UN number	1950
14.2. UN proper shipping name	
Proper shipping name	Aerosols
14.3. Transport hazard class(es)	
Hazard identification number	
Class	2
Classification code	5F
14.4. Packing group	
Packing group	
Labels	2.1
14.5. Environmental hazards	
Environmentally hazardous substance mark	no
14.6. Special precautions for user	
Special provisions	190
Special provisions	327
Special provisions	344
Special provisions	625
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)
on for revision: 3.2	Publication date: 2009-01-07
	Date of revision: 2017-09-18
sion number: 0600	Product number: 47806 11

Iquids: A package shall not weigh more than 30 kg. (gross mass) Ind waterways (ADN) 1. UN number JN number JN number 1950 2. UN proper shipping name Proger shipping name Class Class Class Class Class Class Class Class Class Cass Class Cass Environmentally hazardous substance mark no As. Special provisions	Winnumber [950 Vingsor Pharma (taske) Aerosols Transport Tazard (taske) 23 Casis 2 Casis (taske) 2 Special provisions 243 Casis (taske) 2 Caske) 2 Cas	(RID)	
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Annex II of MARPOL 73/78 Not applicable or revision: 3.2 Publication date: 2009-01-07	Annex II of MARPOL 73/78 Not applicable Publication date: 2009-01-07 Date of revision: 2017-09-18		liquids. A package shall not weigh more than 30 kg. (gross mass)
pr revision: 3.2 Publication date: 2009-01-07	Publication date: 2009-01-07 Date of revision: 2017-09-18		
	Date of revision: 2017-09-18	Annex II of MARPOL 73/78	Not applicable
	Date of revision: 2017-09-18		
Date of revision: 2017-09-18		or revision: 3.2	Publication date: 2009-01-07
			Date of revision: 2017-09-18

Air (ICAO-TI/IATA-DGR)	
14.1. UN number	
UN number	1950
14.2. UN proper shipping na <mark>me</mark>	
Proper shipping name	Aerosols, flammable
14.3. Transport hazard class(es)	
Class	2.1
14.4. Packing group	
Packing group	
Labels	2.1
14.5. Environmental hazards	
Environmentally hazardous substance mark	no
14.6. Special precautions for user	
Special provisions	A145
Special provisions	A167
Special provisions	A802
Limited quantities: maxi <mark>mum net quantity per</mark>	packaging 30 kg G

SECTION 15: Regulatory information

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

European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark	
< 25.49 %		
< 234.51 g/l		

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

and use of certain dai	ngerou	s substances, mixtures and articl	es.	
		Designation of the substance, of the	group of	Conditions of restriction
		substances or of the mixture	•	
· reaction mass of tris(2-chloropropy)	Liquid substances or mixtures which	are	1. Shall not be used in:
phosphate and tris(2-chloro-1-methy		regarded as dangerous in accordance		 ornamental articles intended to produce light or colour effects by means of different
phosphate and phosphoric acid, bis(2		Directive 1999/45/EC or are fulfilling		phases, for example in ornamental lamps and ashtrays,
chloro-1-methylethyl) 2-chloropropy		criteria for any of the following haza		— tricks and jokes,
		or categories set out in Annex I to Re		 games for one or more participants, or any article intended to be used as such, even with
bis(2-chloropropyl) ester	nyicenyi	(EC) No 1272/2008:	Sulution	ornamental aspects,
· polymethylene polyphenyl isocyana	to	(a) hazard classes 2.1 to 2.4, 2.6 and	2728	2. Articles not complying with paragraph 1 shall not be placed on the market.
polymetrylene polyphenyl isocyana	ite	types A and B, 2.9, 2.10, 2.12, 2.13 ca		3. Shall not be placed on the market if they contain a colouring agent, unless required for
		and 2, 2.14 categories 1 and 2, 2.15 to		fiscal reasons, or perfume, or both, if they:
			lypes A to	— can be used as fuel in decorative oil lamps for supply to the general public, and,
		F; (b) because a large 2.4 to 2.6.2.7 a du		
		(b) hazard classes 3.1 to 3.6, 3.7 adve		 present an aspiration hazard and are labelled with R65 or H304,
		effects on sexual function and fertilit	,	4. Decorative oil lamps for supply to the general public shall not be placed on the market
		development, 3.8 effects other than	narcotic	unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted
		effects, 3.9 and 3.10;		by the European Committee for Standardisation (CEN).
		(c) hazard class 4.1;		5. Without prejudice to the implementation of other Community provisions relating to the
		(d) hazard class 5.1.		classification, packaging and labelling of dangerous substances and mixtures, suppliers shall
				ensure, before the placing on the market, that the following requirements are met:
				a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly,
				legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach o
				children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of
				lamps — may lead to life- threatening lung damage";
				b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are
				legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may
				lead to life threatening lung damage";
				c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general
				public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.
				6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency
				to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to
				ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304,
				intended for supply to the general public.
				7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter
				fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter,
				provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the
				competent authority in the Member State concerned. Member States shall make those data
				available to the Commission.'
 polymethylene polyphenyl isocyana 	te	Methylenediphenyl diisocyanate (M	DI)	1. Shall not be placed on the market after 27 December 2010, as a constituent of mixtures in
,,,,,,		including the following specific isome		concentrations equal to or greater than 0,1 % by weight of MDI for supply to the general
		Methylenediphenyl diisocyanate; 2,4		public, unless suppliers shall ensure before the placing on the market that the packaging:
		Methylenediphenyl diisocyanate; 2,2		(a) contains protective gloves which comply with the requirements of Council Directive
		Methylenediphenyl diisocyanate	- 1	89/686/EEC;
		incurry encurpricity unsocyaliate		
ason for revision: 3.2				Publication date: 2009-01-07
				Date of revision: 2017-09-18
				Date of Tevision, 2017-03-10
evision number: 0600				Product number: 47806 13 / 15

	Genius Gun P	lasterboard Adhesive	
		(b) is marked visibly, legibly and indelibly as follows, and without prejud	
		Community legislation concerning the classification, packaging and labe and mixtures:	-
		"— Persons already sensitised to diisocyanates may develop allergic rea this product.	ctions when using
		 Persons suffering from asthma, eczema or skin problems should avoi dermal contact, with this product. 	d contact, including
		 This product should not be used under conditions of poor ventilation 	
		mask with an appropriate gas filter (i.e. type A1 according to standard E 2. By way of derogation, paragraph 1(a) shall not apply to hot melt adhe	
National legislation Belgium	<u>1</u>		
Genius Gun Plasterboard	<u>Adhesive</u>		
No data available			
National legislation The Net			
Genius Gun Plasterboard Waterbezwaarlijkheid	Z (2)		
National legislation France			
Genius Gun Plasterboard	Adhesive		
No data available			
polymethylene polyphen Catégorie cancérogène		Iméthane: C2	I
National legislation German Genius Gun Plasterboard			
WGK	1; Classification water polluti	ing based on the components in compliance with Verwaltungsvorschrift wa	ssergefährdender
	Stoffe (VwVwS) of 27 July 200		
	d, 2-chloro-1-methylethyl bis(2-chloro	loro-1-methylethyl) phosphate and phosphoric acid, bis(2-chloro-1-methyle opropyl) ester	tnyi) 2-chioropropy
TA-Luft	5.2.5		
polymethylene polyphen TA-Luft			
TRGS900 - Risiko der	5.2.5; I 4.4'-Methylendiphenyldiisocy	yanat; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitspla	tzgrenzwertes
Fruchtschädigung	und des biologischen Grenzw	<mark>ve</mark> rtes nicht befürchtet zu werden	
	pMDI (als MDI berechnet); Y; biologischen Grenzwertes nic	; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzv	vertes und des
Sensibilisierende Stoffe		yanat; Sah; Atemwegssensibilisierende Stoffe Und Hautsensibilisierende Sto	offe, an beiden
	Zielorganen Allergien auslöse	ende	
TRGS905 - Krebserzeug		a; Atemwegssensibilisierende Stoffe MDI) (in Form atembarer Aerosole, A-Fraktion); 2	
		MDI) (in Form atembarer Aerosole, A-Fraktion); -	
TRGS905 -		MDI) (in Form atembarer Aerosole, A-Fraktion); -	
Fruchtbarkeitsgefährde TRGS905 - Fruchtschädi		MDI) (in Form atembarer Aerosole, A-Fraktion); -	
Hautresorptive Stoffe	4,4'-Methylendiphenyldiisocy		
	pMDI (als MDI berechnet); H;	; Hautresorptiv	
National legislation United K			
<u>Genius Gun Plasterboard</u> No data available	Adhesive		
polymethylene polypheny	vl isocvanate		
Skin Sensitisation	Isocyanates, all (as -NCO) Exc		
Respiratory sensitisatio	on Isocyanates, all (as -NCO) Exc	cept methyl isocyanate; Sen	
Other relevant data			
<u>Genius Gun Plasterboard</u> No data available	Adhesive		
polymethylene polyphen	vl isocvanate		
IARC - classification	3; Polymethylene polyphenyl	lisocyanate	
15.2. Chemical safety ass	essment		
	sment has been conducted for the m	hixture.	
SECTION 16: Other in	formation		
	ts referred to under heading 3:		
H220 Extremely flamma	0		
H222 Extremely flamma H229 Pressurised contai			
H280 Contains gas unde	er pressure; may explode if heated.		
H302 Harmful if swallow	ved.		
Reason for revision: 3.2		Publication date: 2009-01-07	
		Date of revision: 2017-09-18	
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Revision number: 0600		Product number: 47806	14/15

	Ochius Outh Flaster Duard Autresive
H315 Causes skir	n irritation.
H317 May cause	an allergic skin reaction.
H319 Causes ser	ious eye irritation.
H332 Harmful if	inhaled.
H334 May cause	allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause	respiratory irritation.
	of causing cancer.
H373 May cause	damag <mark>e to organs through prolonged or rep</mark> eated exposure if inhaled.
(*)	INTERNAL CLASSIFICATION BY BIG
CLP (EU-GHS)	Classification, labelling and packaging (Globally Harmonised System in Europe)
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
EC50	Effect Concentration 50 %
ErC50	EC50 in terms of reduction of growth rate
LC50	Lethal Concentration 50 %
LD50	Lethal Dose 50 %
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative & Toxic
PNEC	Predicted No Effect Concentration
STP	Sludge Treatment Process
vPvB	very Persistent & very Bioaccumulative
Specific concentratio	n limits CLP

polymethylene polyphen <mark>yl isocyanate</mark>	C ≥ 5 %	Eye Irrit 2;H319	analogous to Annex VI
	C ≥ 5 %	Skin Irrit 2;H315	analogous to Annex VI
	C ≥ 0.1 %	Resp Sens 1;H334	analogous to Annex VI
	C ≥ 5 %	STOT SE 3;H335	analogous to Annex VI

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