

SAFETY DATA SHEET

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

Genius Gun Gap Filler

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

1.1. Product identifier

Product name : Genius Gun Gap Filler Registration number REACH : Not applicable (mixture)

Product type REACH : 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 **2** +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

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statements
Aerosol	categ <mark>ory 1</mark>	H222: Extremely flammable aerosol.
Aerosol	categ <mark>ory 1</mark>	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.	category 4	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.	category 2	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







Contains: polymethylene polyphenyl isocyanate.

Signal word

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG) Technische Schoolstraat 43 A, B-2440 Geel

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Product number: 47806

H-statements	
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H351	Suspected of causing cancer.
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.
C I	

Supplemental information

- 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	1% <c<10%< th=""><th>Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280</th><th>, ,, ,, ,</th><th>Propellant</th></c<10%<>	Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	, ,, ,, ,	Propellant
isobutane 01-2119485395-27		75-28-5 200-857-2		Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280		Propellant
dimethyl ether 01-2119472128-37		115-10-6 204-065-8	1% <c<10%< td=""><td>Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280</td><td>. , , , ,</td><td>Propellant</td></c<10%<>	Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	. , , , ,	Propellant
reaction mass of tris(2-chloropro tris(2-chloro-1-methylethyl) pho phosphoric acid, bis(2-chloro-1- chloropropyl ester and phospho methylethyl bis(2-chloropropyl) 01-2119486772-26	sphate and methylethyl) 2- ric 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	ranate	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%)						

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- (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

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 unwell.

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.

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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 explosion proof 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

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.

=	U	

Dimethylether	Time-weighted average exposure limit 8 h (Indicative occupational 1000 ppm
	exposure limit value)
	Time-weighted average exposure limit 8 h (Indicative occupational 1920 mg/m³
	exposure limit value)

Belgium

4,4'-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 aliphatiques sous forme gazeuse : (Alcanes C1-		Time-weighted average exposure limit 8 h	1000 ppm
C4)			
Oxyde de diméthyle		Time-weighted average exposure limit 8 h	1000 ppm
		Time-weighted average exposure limit 8 h	1920 mg/m³

The Netherlands

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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/m³
		Short time value (Public occupational exposure limit value)	783 ppm
		Short time value (Public occupational exposure limit value)	1500 mg/m ³
France			
1,4'-Diisocyanate de diph	énylméthane	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/m ³
Oxyde 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/m³
Germany			
1,4'-Methylendiphenyldii	socyanat	Time-weighted average exposure limit 8 h (TRGS 900)	0.05 mg/m³
Dimethylether		Time-weighted average exposure limit 8 h (TRGS 900)	1000 ppm
		Time-weighted average exposure limit 8 h (TRGS 900)	1900 mg/m³
sobutan		Time-weighted average exposure limit 8 h (TRGS 900)	1000 ppm
		Time-weighted average exposure limit 8 h (TRGS 900)	2400 mg/m ³
oMDI (als MDI berechnet)	Time-weighted average exposure limit 8 h (TRGS 900)	0.05 mg/m ³
Propan		Time-weighted average exposure limit 8 h (TRGS 900)	1000 ppm
		Time-weighted average exposure limit 8 h (TRGS 900)	1800 mg/m³
JK			
Dimethyl ether		Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	400 ppm
		Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	766 mg/m³
		Short time value (Workplace exposure limit (EH40/2005))	500 ppm
		Short time value (Workplace exposure limit (EH40/2005))	958 mg/m³
socyanates, all (as -NCO)	Except methyl isocyanate	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	0.02 mg/m ³
		Short time value (Workplace exposure limit (EH40/2005))	0.07 mg/m ³
JSA (TLV-ACGIH)			
JSA (TLV-ACGIH) Butane, all isomers		Short time value (TLV - Adopted Value) Time-weighted average exposure limit 8 h (TLV - Adopted Value)	1000 ppm

b) National biological limit values

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

8.1.2 Sampling methods

Product name		Test	Number
Isocyanates		NIOSH	5521
Isocyanates		NIOSH	5522

8.1.3 Applicable limit values when using the substance or mixture as intended

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

8.1.4 DNEL/PNEC values

DNEL/DMEL - Workers

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

Effect level (DNEL/DMEL)		Туре	Value	Remark
DNEL		L <mark>ong-term systemic effec</mark> ts inhalation	5.82 mg/m³	
		Acute systemic effects inhalation	22.4 mg/m³	
		Long-term systemic effects dermal	2.08 mg/kg bw/day	
		Acute systemic effects dermal	8 mg/kg bw/day	

DNEL/DMEL - General population

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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

Effect level (DNEL/DMEL)		Туре	Value	Remark
DNEL		Long-term systemic effects inhalation	1.46 mg/m³	
		Acute systemic effects inhalation	11.2 mg/m ³	
		Long-term systemic effects dermal	1.04 mg/kg bw/day	
		Acute systemic effects dermal	4 mg/kg bw/day	
		Long-term systemic effects oral	0.52 mg/kg bw/day	

PNEC

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

Compartments	Value	Remark
Fresh water	0.64 mg/l	
Aqua (intermittent releases)	<mark>0.51 mg</mark> /l	
Marine water	<mark>0.064 m</mark> g/l	
STP	<mark>7.84 mg/l</mark>	
Fresh water sediment	13.4 mg/kg sediment dw	
Marine water sediment	1.34 mg/kg sediment dw	
Soil	1.7 mg/kg soil dw	
Oral	11.6 mg/kg food	

8.1.5 Control banding

If applicable and available it will be listed below.

8.2. Exposure controls

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.

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 contact. Do not eat, drink or smoke during work.

a) Respiratory protection:

Wear gas mask with filter type A if conc. in air > exposure limit.

b) Hand protection:

Gloves.

Materials	Breakthrough time	Thickness	
LDPE (Low Density Poly Ethylene)	<mark>> 10 minutes</mark>	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						
Particle size	No data available						
Explosion limits	No data available						
Flammability	Extremely flammable aerosol.						
Log Kow	Not applicable (mixture)						
Dynamic viscosity	No data available						
Kinematic viscosity	No data available						
Melting point	No data available						
Boiling point	lo data available						
Flash point	No data available						
Evaporation rate	No data available						

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Relative vapour density		· 1						
Vapour pressure		No data available						
Solubility		Water ; insoluble						
		Organic solvents; soluble						
Relative density		0.92 ; 20 °C						
Decomposition temperatur	re	No data available						
Auto-ignition temperature		No data available						
Explosive properties		No chemical group associated with explosive properties						
Oxidising properties		No chemical group associated with oxidising properties						
рН		No data available						

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

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 Gap Filler

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	Parameter	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		> 5000 mg/kg		Rabbit	Literature study	
Inhalation (vapours)	LD50		<mark>10 mg/l -</mark> 20 mg/l	4 h	Rat	Literature study	
Inhalation			<mark>category</mark> 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

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Genius Gun Gap Filler

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		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	<mark>4 h</mark>	7 days	Rabbit	Experimental value	

polymethylene polyphenyl isocyanate

Route of exposure	Result	Method	Exposure time	Time point	Value determination	Remark
,	Irritating; category 2				Literature study	
	Irritating; category 2				Literature study	
	Irritating; STOT SE cat.3				Literature study	

Conclusion

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

Respiratory or skin sensitisation

Genius Gun Gap Filler

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

I	Route of exposure	Result	Method	Observation time point	Species	Value determination	Remark
9	Skin	Not sensi <mark>tizing</mark>	OECD 429		Mouse (female)	Experimental value	

polymethylene polyphenyl isocyanate

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination Remark
Skin	Sensitizin <mark>g;</mark> category <mark>1</mark>					Literature study
Inhalation	Sensitizin <mark>g;</mark> category 1					Literature study

Conclusion

May cause an allergic skin reaction.

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

Specific target organ toxicity

Genius Gun Gap Filler

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	Parameter	Method	Value	Organ	Effect	Exposure time		Value determination
Oral (diet)			171 mg/kg bw/day		No effect	13 weeks (daily)		Experimental value
Oral (diet)			52 mg/kg bw/day	Liver	Weight gain	13 weeks (daily)		Experimental value
Inhalation (vapours)	Dose le <mark>vel</mark>		0.586 mg/l air		No effect		, ,	Experimental value

polymethylene polyphenyl isocyanate

-	,		,	-					
	Route of exposure	Parame	eter	Method	Value	Organ	Effect	Exposure time	Value determination
	Inhalation				STOT RE cat.2				Literature study

Conclusion

May cause damage to organs through prolonged or repeated exposure if inhaled.

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Not classified as sub-chronically toxic in contact with skin Not classified as sub-chronically toxic if swallowed

Mutagenicity (in vitro)

Genius Gun Gap Filler

No (test)data on the mixture available

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

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	OECD 482	Rat liver cells		Experimental value
Negative without metabolic activation, positive with metabolic activation		Mouse (lymphoma L5178Y cells)		Experimental value

Mutagenicity (in vivo)

Genius Gun Gap Filler

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

Result		Method	Exposure time	Test substrate	Organ	Value determination
Negative		OECD 474		Mouse (male/female)	Bone marrow	Experimental value

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

Genius Gun Gap Filler

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	Parameter	Method	Value	Exposure time	Species	Effect	- 3	Value determination
Inhalation						1		Data waiving
Dermal								Data waiving
Oral								Data waiving

polymethylene polyphenyl isocyanate

Route of	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
exposure								determination
Unknown			category 2					Literature study

Conclusion

Suspected of causing cancer.

Reproductive toxicity

Genius Gun Gap Filler

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	. 3	Value determination
Developmental toxicity	LOAEL		99 mg/kg bw/day		Rat (female)	Embryotoxicity		Experimental value
Effects on fertility	LOAEL		99 mg/kg bw/day		Rat (male/female)		Female reproductive organ	Experimental value

Conclusion

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

Genius Gun Gap Filler

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No (test)data on the mixture available

Chronic effects from short and long-term exposure

Genius Gun Gap Filler

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 Gap Filler

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 aquati plants	ic	ErC50	OECD 201	82 mg/l		Pseudokirchneriel la 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)		Semi-static system	Fresh water	Experimental value; GLP
Toxicity aquatic micro- organisms		EC50	ISO 8192	<mark>784 m</mark> g/l	3 h	Activated sludge	Static system	Fresh water	Experimental value; GLP

polymethylene polyphenyl isocyanate

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity other aquatic organisms	LC50		> 1000 mg/l	96 h				Literature study
Toxicity aquatic micro- organisms	EC50	OECD 209	> 100 mg/l		Activated sludge			Literature study

Conclusion

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

> 1 year(s)

12.2. Persistence and degradability

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

Biodegradation water

	ivietnoa	value	Duration	value determination	ı
	OECD 301E: Modified OECD Screening Test	14 %; GLP	28 day(s)	Experimental value	
P	hototransformation air (DT50 air)				

Mothod

ivietnoa		value		CONC. On-radicals	value determination
AOPWIN v1.92		8.6 h		500000 /cm³	Calculated value
Riodegradation soil					

Duration

Primary degradation

Value determination

Experimental value

Method

					Data waiving
Ha	olf-life water (t1/2 water)				
Ī	Method	Value	Primary		Value determination
			degradation/mineralisat	tion	

EU Method C.7
polymethylene polyphenyl isocyanate

Biodegradation water

9			
Method	Value	Duration	Value determination
OECD 302C: Inherent Biodegradability:	< 60 %		Experimental value
Modified MITI Test (II)			

Conclusion

Contains non readily biodegradable component(s)

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12.3. Bioaccumulative potential

Genius Gun Gap Filler

Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

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

BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF	OECD 305	0.8 - 14; Fresh weight	6 week(s)	Cyprinus carpio	Experimental value

Log Kow

Method	Remark	Value	Temperature	Value determination
EU Method A.8		<mark>2.68</mark>	30 °C	Experimental value

polymethylene polyphenyl isocyanate

BCF fishes

Parameter	Metho	d	Value	Duration	Species	Value determination
BCF			1		Pisces	Literature study

Log Kow

Method	Remark	Value	Temperature	Value determination
	No data available			

Conclusion

No straightforward conclusion can be drawn based upon the available numerical values

12.4. Mobility in soil

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

(log) Koc

Parameter	Method	Value	Value determination	
log Koc	EU Method C.19	2.76	Experimental value	1

Percent distribution

Method	Fraction air		Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level I	0.01 %	0 %	3.55 %	3.52 %	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 Gap Filler

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

Reason for revision: 3.2 Publication date: 2009-01-07
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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).

CTION 44 Torre	and and the farmers at the se	
CHON 14: Tran	sport information	
Road (ADR)		
14.1. UN number		
UN number		1950
14.2. UN proper shippi	ing name	
Proper shipping na		Aerosols
14.3. Transport hazard		
Hazard identification		
Class		2
Classification code		5F
14.4. Packing group		
Packing group		
Labels		2.1
14.5. Environmental ha	azards	
Environmentally ha	azardous substance mark	no
14.6. Special precautio	ns for u <mark>ser</mark>	
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)
Rail (RID) 14.1. UN number		
UN number		1950
14.2. UN proper shippi	ing namo	1930
Proper shipping na		Aerosols
14.3. Transport hazard		Aerosois
Hazard identification		23
Class	on number	23
Classification code		5F
14.4. Packing group		JI
Packing group		
Labels		2.1
14.5. Environmental ha	azards	E-11
	azardous substance mark	no
14.6. Special precautio		no .
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
Enfliced quantities		liquids. A package shall not weigh more than 30 kg. (gross mass)
Inland waterways (A	ADN)	
UN number		1950
14.2. UN proper shippi	ng name	
Proper shipping na	-	Aerosols
14.3. Transport hazard		
Class		2
Classification code		5F
ason for revision: 3.2		Publication date: 2009-01-07 Date of revision: 2017-09-18
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14.4. Packing group		
Packing group		
Labels		2.1
14.5. Environmental hazards		
Environmentally hazardo	us substance mark	no
14.6. Special precautions for		
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)
a (IMDG/IMSBC)		
14.1. UN number		
UN number		1950
14.2. UN proper shipping nar	ne	
Proper shipping name		Aerosols
14.3. Transport hazard class(es)	
Class		2.1
14.4. Packing group		
Packing group		
Labels		2.1
14.5. Environmental hazards		
Marine pollutant		
Environmentally hazardo	us substance mark	no
14.6. Special precautions for	user	
Special provisions		63
Special provisions		190
Special provisions		277
Special provisions		327
Special provisions		344
Special provisions		381
Special provisions		959
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)
14.7. Transport in bulk accord	ding to Annex II of Marpol and the IBC Co	ode
Annex II of MARPOL 73/7	78	Not applicable
r (ICAO-TI/IATA-DGR)		
14.1. UN number		
UN number		1950
14.2. UN proper shipping nar	mo	1930
	ne	Acrosola flammable
Proper shipping name		Aerosols, flammable
14.3. Transport hazard class(coj	2.1
Class		2.1
14.4. Packing group		
Packing group		2.4
Labels		2.1
14.5. Environmental hazards		
Environmentally hazardo		no
14.6. Special precautions for	user	
		A145
Special provisions		A167
Special provisions Special provisions		
Special provisions Special provisions Special provisions		A802
Special provisions Special provisions Special provisions	num net quantity per packaging	
Special provisions Special provisions Special provisions	num net quantity per packaging	A802

 Revision number: 0600
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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.

Reference legislation

See column 1: 3. See column 1: 40. See column 1: 56.

Recommandations REACH annex XVII

- 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.

National legislation Belgium

Genius Gun Gap Filler No data available

National legislation The Netherlands

Genius Gun Gap Filler

Waterbezwaarlijkheid Z (2)

National legislation France

Genius Gun Gap Filler
No data available

polymethylene polyphenyl isocyanate

Catégorie cancérogène 4,4'-Diisocyanate de diphénylméthane; C2

National legislation Germany

Genius Gun Gap Filler

WGK	1; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender
	Stoffe (VwVwS) of 27 July 2005 (Anhang 4)

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

TA-Luft 5.2.5

polymethylene polyphenyl isocyanate

TA-Luft	5.2.5; I
TRGS900 - Risiko der Fruchtschädigung	4,4'-Methylendiphenyldiisocyanat; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden
	pMDI (als MDI berechnet); Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden
Sensibilisierende Stoffe	4,4'-Methylendiphenyldiisocyanat; Sah; Atemwegssensibilisierende Stoffe Und Hautsensibilisierende Stoffe, an beiden Zielorganen Allergien auslösende
	pMDI (als MDI berechnet); Sa; Atemwegssensibilisierende Stoffe
TRGS905 - Krebserzeug <mark>end</mark>	Techn. ("Polymeres") MDI (pMDI) (in Form atembarer Aerosole, A-Fraktion); 2
TRGS905 - Erbgutverän <mark>dern</mark>	d Techn. ("Polymeres") MDI (pMDI) (in Form atembarer Aerosole, A-Fraktion); -
TRGS905 - Fruchtbarkeitsgefährde <mark>nd</mark>	Techn. ("Polymeres") MDI (pMDI) (in Form atembarer Aerosole, A-Fraktion); -
TRGS905 - Fruchtschädigen	Techn. ("Polymeres") MDI (pMDI) (in Form atembarer Aerosole, A-Fraktion); -
Hautresorptive Stoffe	4,4'-Methylendiphenyldiisocyanat; H; Hautresorptiv
	pMDI (als MDI berechnet); H; Hautresorptiv

National legislation United Kingdom

Genius Gun Gap Filler No data available

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polymethylene polyphenyl isocyanate

Skin Sensitisation	Isocyanates, all (as -NCO) Exce	pt methyl isocyanate; Sen	
Respiratory sensitisation	Isocyanates, all (as -NCO) Exce	pt methyl isocyanate; Sen	

Other relevant data

Genius Gun Gap Filler

No data available

polymethylene polyphenyl isocyanate

IARC - classification 3; Polymethylene polyphenyl isocyanate

15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

SECTION 16: Other information

Full text of any H-statements referred to under heading 3:

- H220 Extremely flammable gas.
- H222 Extremely flammable aerosol.
- H229 Pressurised container: May burst if heated.
- 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 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 concentration limits CLP

polymethylene polyphen	yl isocyanate	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

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet has been elaborated for use within the European Union, Switzerland, Iceland, Norway and Lichtenstein. It may be consulted in other countries, where local legislation with regards to the set-up of safety data sheets will take precedence. It is your obligation to verify and apply such local legislation. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.

Reason for revision: 3.2 Publication date: 2009-01-07
Date of revision: 2017-09-18

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SAFETY DATA SHEET

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

Trade Foam & Guncleaner

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

1.1. Product identifier

Product name : Trade Foam & Guncleaner Registration number REACH : Not applicable (mixture)

Product type REACH : Mixture

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

1.2.1 Relevant identified uses

Detergent according to Regulation (EC) No 648/2004

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

2 +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

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

erassimea as aariber	addition as daily course a decorating to the distance of the balance (12) the 12/1/2000					
Class	Category	ard statements				
Aerosol	category 1	H222: Extremely flammable aerosol.				
Aerosol	category 1	H229: Pressurised container: May burst if heated.				
Eye Irrit.	category 2	H319: Causes serious eye irritation.				
STOT SE	category 3	H336: May cause drowsiness or dizziness.				

2.2. Label elements





Contains: aceton
Signal word
H-statements
H222

Danger

1222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

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.
P280 Wear eye protection/face protection.

December 2015

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG) Technische Schoolstraat 43 A, B-2440 Geel

http://www.big.be

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Reason for revision: 3

Revision number: 0400 Product number: 33075 1/13

Publication date: 2002-05-11
Date of revision: 2019-02-18

134-15960-640-en

P304 + P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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 information

EUH066 Repeated exposure may cause skin dryness or cracking.

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

		CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark
acetone 01-2119471330-49		67-64-1 200-662-2		Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	(1)(2)(10)	Constituent
isobutane 01-2119485395-27		75-28-5 200-857-2	C>1 %	Flam. Gas 1; H220 Press. Gas - Liquefied gas;	(1)(2)(10)	Propellant
propane 01-2119486944-21		74-98-6 200-827-9	C>1 %	Flam. Gas 1; H220 Press. Gas - Liquefied gas;	(1)(2)(10)	Propellant
(1,3-butadiene, conc<0.1%)						

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

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. Soap may be used. Do not apply (chemical) neutralizing agents without medical advice. Take victim to a doctor if irritation persists.

After eye contact:

Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply (chemical) neutralizing agents without medical advice. Take victim to an ophthalmologist if irritation persists.

After ingestion:

Rinse mouth with water. Do not induce vomiting. Do not apply (chemical) neutralizing agents without medical advice. Consult a doctor/medical service if you feel unwell.

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

4.2.1 Acute symptoms

After inhalation:

EXPOSURE TO HIGH CONCENTRATIONS: Feeling of weakness. Central nervous system depression. Dizziness. Narcosis. Excited/restless. Drunkenness. Disturbed motor response. Headache. Respiratory difficulties. Disturbances of consciousness.

After skin contact:

ON CONTINUOUS EXPOSURE/CONTACT: Dry skin. Cracking of the skin.

After eye contact:

Irritation of the eye tissue.

After ingestion:

No effects known.

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

Reason for revision: 3		Publication date: 2002-05-11
		Date of revision: 2010 02 19

Revision number: 0400 Product number: 33075 2 / 13

⁽²⁾ Substance with a Community workplace exposure limit

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

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

Upon combustion: CO and CO2 are formed. Pressurised container: May burst if heated.

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.

5.3.2 Special protective equipment for fire-fighters:

Gloves. Protective goggles. 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. Protective clothing.

Suitable protective clothing

See heading 8.2

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Take up liquid spill into a non combustible material e.g.: sand/earth. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after

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 normal hygiene standards.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Storage temperature: < 50 °C. Store in a cool area. Fireproof storeroom. Keep out of direct sunlight. Meet the legal requirements. Max. storage time: 1

7.2.2 Keep away from:

Heat sources, ignition sources, oxidizing agents, (strong) acids, (strong) bases.

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		
Acetone	Time-weighted average exposure limit 8 h (Indicative occupational	500 ppm
	exposure limit value)	
	Time-weighted average exposure limit 8 h (Indicative occupational	1210 mg/m³
	exposure limit value)	

Reason for revision: 3	Publication date: 2002-05-11
	Date of revision: 2019-02-18

Revision number: 0400 Product number: 33075 3 / 13

Programmy		Trade Foa	ım & Guno	cleaner		
Time-weighted average exposure limit 8 h Time-weighted average exposure limit 8 h Short time value	um					
Short time value Short time value Short time value The Netherlands Time-weighted average exposure limit 8 h (Public occupational exposure limit value) France Acction France Acctione Time-weighted average exposure limit 8 h (Public occupational exposure limit value) Short time value (Public occupational exposure limit value) Short time value (Public occupational exposure limit value) France Acctione Time-weighted average exposure limit 8 h (VRC: Valeur règlementaire contraignante) Short time value (VRC: Valeur règlementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Sho) Time-weighted average exposure limit 8 h (VRC:						500 ppm 1210 mg/m
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Time-weighted average exposure limit 8 h (Public occupational exposure limit exposure exposure limit (Public occupational exposure limit exposure exposure limit (Public occupational exposure limit exposure exposure limit (Public occupational exposure limit exposur			Short time value			2370 mg/n
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Contraignante				xposure limit 8 h (VRC:	Valeur réglementaire	1210 mg/n
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Short time value (Workplace exposure limit (EH40/2005)) USA (TLV-ACGIH) Acetone Time-weighted average exposure limit 8 h (TLV - Adopted Value) Short time value (TLV - Adopted Value) Butane, all isomers Short time value (TLV - Adopted Value) D. National biological limit values If limit values are applicable and available these will be listed below. Germany Aceton (Aceton) Urin: expositionsende, bzw. schichtende Bo mg/l 11/2012 Ständige Sc Prüfung gesundheit: Arbeitsstoffe der DF USA (BEI-ACGIH) Acetone (Acetone) Urine: end of shift 25 mg/L 1.2 Sampling methods Product name Acetone (ketones 1) Acetone (ketones 1) Acetone (ketones 1) Acetone (ketones 1) Acetone (konganic and inorganic gases by Extractive FTIR) Acetone (Volatile Organic compounds) Acetone (Volatile Organic compounds) Acetone (Volatile Organic compounds) Acetone (Volatile Organic compounds) Acetone (In METHYL ETHYL KETONE in urine NIOSH Acetone OSHA Acetone OSHA 69 Publication date: 2002-05-11				,		
USA (TLV-ACGIH) Acetone Time-weighted average exposure limit 8 h (TLV - Adopted Value) Short time value (TLV - Adopted Value) Butane, all isomers Short time value (TLV - Adopted Value) b) National biological limit values If limit values are applicable and available these will be listed below. Germany Aceton (Aceton) Urin: expositionsende, bzw. schichtende B0 mg/l 11/2012 Ständige Sc Prüfung gesundheit: Arbeitsstoffe der DF USA (BEI-ACGIH) Acetone (Acetone) Urine: end of shift 25 mg/L 1.2 Sampling methods Product name Test Number Acetone (ketones 1) Acetone (organic and inorganic gases by Extractive FTIR) NIOSH 3800 Acetone (Volatile Organic compounds) Acetone (Volatile Organic compounds) NIOSH 3819 Acetone Acetone Imit values when using the substance or mixture as intended If limit values are applicable and available these will be listed below. 1.4 Threshold values DNEL/DMEL - Workers Publication date: 2002-05-11			Short time value (Workpla	ace exposure limit (EH4	40/2005))	1500 ppm
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b) National biological limit values If limit values are applicable and available these will be listed below. Germany Aceton (Aceton) Urin: expositionsende, bzw. schichtende 80 mg/l 11/2012 Ständige Se Prüfung gesundheit: Arbeitsstoffe der DF USA (BEI-ACGIH) Acetone (Acetone) Urine: end of shift 25 mg/L 1.2 Sampling methods Product name Test Number Acetone (ketones 1) Acetone (ketones 1) Acetone (ketones I) Acetone (ketones I) Acetone (roganic and inorganic gases by Extractive FTIR) NIOSH Acetone (Volatile Organic compounds) Acetone (Volatile Organic compounds) Acetone (Volatile Organic spice sp				·	7	500 ppm
If limit values are applicable and available these will be listed below. Germany Aceton (Aceton) Urin: expositionsende, bzw. schichtende 80 mg/l 11/2012 Ständige Se Prüfung gesundheit: Arbeitsstoffe der DF USA (BEI-ACGIH) Acetone (Acetone) Urine: end of shift 25 mg/L 25 mg/L 25 mg/L 12 sampling methods Product name Test Number Acetone (ketones 1) Acetone (ketones 1) Acetone (ketones 1) Acetone (organic and inorganic gases by Extractive FTIR) Acetone (organic and inorganic compounds) Acetone (Volatile Organic compounds) Acetone (Volatile Organic compounds) Acetone NIOSH Acetone NIOSH B319 Acetone OSHA 69 1.3 Applicable limit values when using the substance or mixture as intended If limit values are applicable and available these will be listed below. 1.4 Threshold values DNEL/DMEL - Workers Publication date: 2002-05-11	ne, all isomers		Short time value (TLV - Ac	dopted Value)	7	1000 ppm
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Acetone (organic and inorganic gases by Extractive FTIR) Acetone (Volatile Organic compounds) ACETONE and METHYL ETHYL KETONE in urine Acetone OSHA 1.3 Applicable limit values when using the substance or mixture as intended If limit values are applicable and available these will be listed below. 1.4 Threshold values DNEL/DMEL - Workers Publication date: 2002-05-11	one (ketones 1)		NIOSH	1300		
Acetone (Volatile Organic compounds) ACETONE and METHYL ETHYL KETONE in urine Acetone OSHA OSHA 69 1.3 Applicable limit values when using the substance or mixture as intended If limit values are applicable and available these will be listed below. 1.4 Threshold values DNEL/DMEL - Workers Publication date: 2002-05-11			NIOSH	2555		
ACETONE and METHYL ETHYL KETONE in urine NIOSH 8319 Acetone OSHA 69 1.3 Applicable limit values when using the substance or mixture as intended If limit values are applicable and available these will be listed below. 1.4 Threshold values DNEL/DMEL - Workers Publication date: 2002-05-11			NIOSH			
Acetone OSHA 69 1.3 Applicable limit values when using the substance or mixture as intended If limit values are applicable and available these will be listed below. 1.4 Threshold values DNEL/DMEL - Workers Publication date: 2002-05-11						
1.3 Applicable limit values when using the substance or mixture as intended If limit values are applicable and available these will be listed below. 1.4 Threshold values DNEL/DMEL - Workers Publication date: 2002-05-11		YL KETONE in urine				
If limit values are applicable and available these will be listed below. 1.4 Threshold values DNEL/DMEL - Workers or revision: 3 Publication date: 2002-05-11		hon using the substance or minter		ь9		
1.4 Threshold values DNEL/DMEL - Workers or revision: 3 Publication date: 2002-05-11						
pr revision: 3 Publication date: 2002-05-11		and the second of				
	./DMEL - Workers					
	ion: 3			Publication date:	2002-05-11	
2000 01 10100111 2023 02 10						
				Date of Tevision.		
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acetone

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	1210 mg/m³	
	Acute local effects inhalation	2420 mg/m³	
	Long-term systemic effects dermal	186 mg/kg bw/day	

DNEL/DMEL - General population

acetone

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	200 mg/m ³	
	Long-term systemic effects dermal	62 mg/kg bw/day	
	Long-term systemic effects oral	62 mg/kg bw/day	

PNEC

<u>acetone</u>

Compartments	Value	Remark
Fresh water	<mark>10.6 mg/</mark> l	
Aqua (intermittent rele <mark>ases)</mark>	21 mg/l	
Marine water	<mark>1.06 mg/</mark> l	
STP	100 mg/l	
Fresh water sediment	30.4 mg/kg sediment dw	
Marine water sediment	3.04 mg/kg sediment dw	
Soil	<mark>29.5 mg/</mark> kg soil dw	

8.1.5 Control banding

If applicable and available it will be listed below.

8.2. Exposure controls

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.

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 normal hygiene standards. Do not eat, drink or smoke during work.

a) Respiratory protection:

Full face mask with filter type AX at conc. in air > exposure limit.

b) Hand protection:

Protective gloves against chemicals (EN374).

Materials	Measured breakthrough time	Thickness	Protection index
butyl rubber	> 480 minutes		Class 6

c) Eye protection:

Protective goggles.

d) Skin 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		Acetone odour
Odour threshold		No data available
Colour		Colourless
Particle size		No data available
Explosion limits		1.8 - 13 vol %
Flammability		Extremely flammable aerosol.
Log Kow		Not applicable (mixture)
Dynamic viscosity		No data available
Kinematic viscosity		No data available
Melting point		Not applicable
Boiling point		Not applicable
Evaporation rate		No data available
Relative vapour density		No data available
Vapour pressure		8 <mark>530 hPa ; 20 °</mark> C
Solubility		Water ; complete
		Ethanol ; soluble
		Ether ; soluble
Relative density		No data available
Decomposition tempera	ture	No data available
Auto-ignition temperatu	re	No data available

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Flash point	Not appli	<mark>cable</mark>		
Explosive properties	No chemi	cal group associated with explosive prope	erties	
Oxidising properties	No chemi	cal group associated with oxidising prope	rties	
рН	No data a	<mark>vaila</mark> ble		

9.2. Other information

Absolute density No data available

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

No data available.

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

Oxidizing agents, (strong) acids, (strong) bases.

10.6. Hazardous decomposition products

Upon combustion: CO and CO2 are formed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1.1 Test results

Acute toxicity

Trade Foam & Guncleaner

Route of exposure	Parameter	Method	Value	Exposure time		Value determination	Remark
Oral	LD50		> 5000 mg/kg bw		Rat	Calculated value	

Judgement is based on the relevant ingredients

<u>acetone</u>

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	Equivalent to OECD 401	5800 mg/kg		Rat (female)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	20000 mg/kg		Rabbit (male)	Experimental value	
Inhalation (vapours)	LC50	Other	<mark>76 mg/l</mark>	4 h	Rat (female)	Experimental value	
Inhalation (vapours)	LCL0	Other	<mark>16000 p</mark> pm	4 h	Rat	Experimental value	

Conclusion

Not classified for acute toxicity

Corrosion/irritation

Trade Foam & Guncleaner

No (test)data on the mixture available

Classification is based on the relevant ingredients

<u>acetone</u>

Route of exposure	Result	Method	Exposure time	Time point		Value determination	Remark
Eye	Irritating	OECD 405		24; 48; 72 hours	Rabbit	Weight of evidence	
Skin	Not irrit <mark>ating</mark>	Other	3 day(s)	24; 48; 72 hours	Guinea pig	Weight of evidence	
Inhalation	0 1 1 0	Human observation study	20 minutes		Human	Literature	

Conclusion

Causes serious eye irritation.

Not classified as irritating to the skin

Not classified as irritating to the respiratory system

Respiratory or skin sensitisation

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Trade Foam & Guncleaner

No (test)data on the mixture available

Judgement is based on the relevant ingredients

<u>acetone</u>

Route of exposure	Result	Method	Observation time point	Species	Value determination	Remark
Skin	Not sens <mark>itizing</mark>	Human observation		Human	Literature	

Conclusion

Not classified as sensitizing for skin Not classified as sensitizing for inhalation

Specific target organ toxicity

Trade Foam & Guncleaner

No (test)data on the mixture available

Classification is based on the relevant ingredients

acetone

Route of exposure	Parame	eter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral	NOAEL		Equivalent to OECD 408	20 mg/l		No effect	13 week(s)	Mouse (male / female)	Experimental value
Dermal									Not relevant, expert judgement
Inhalation (vapours)	NOAEC		Other	19000 ppm		No effect	8 week(s)	Rat (male)	Literature
Inhalation (vapours)	Dose le		Human observation study	361 ppm	Central nervous system	neurotoxic effects	2 day(s)	Human	Epidemiological study

Conclusion

May cause drowsiness or dizziness.

Not classified for subchronic toxicity

Mutagenicity (in vitro)

Trade Foam & Guncleaner

No (test)data on the mixture available

<u>acetone</u>

Result	Method	Test substrate	Effect	Value determination	
Negative	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value	

Mutagenicity (in vivo)

Trade Foam & Guncleaner

No (test)data on the mixture available

Judgement is based on the relevant ingredients

acetone

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative		13 week(s)	Mouse (male / female)		Literature

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

Trade Foam & Guncleaner

No (test)data on the mixture available

Judgement is based on the relevant ingredients

<u>acetone</u>

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	. 3	Value determination
Dermal	NOEL	Other	79 mg	51 week(s)	Mouse (female)	No effect		Literature

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

Trade Foam & Guncleaner

No (test)data on the mixture available

Judgement is based on the relevant ingredients

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<u>acetone</u>

ce	<u>tone</u>							_	
		Parameter	Method	Value	Exposure time	Species	Effect	. 3.	Value determination
	Developmental toxicity		Equivalent to OECD 414		6 days (gestation, daily) - 19 days (gestation, daily)	,			Experimental value
	Effects on fertility	NOAEL		<mark>900 m</mark> g/kg bw/day	13 week(s)	Rat (male)	No effect		Literature

Conclusion

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

Trade Foam & Guncleaner

No (test)data on the mixture available

Judgement is based on the relevant ingredients

acetone

Parameter	Method	Value	Organ	Effect	Exposure time	Value determination
			Skin	Skin dryness or		Literature study

Conclusion

Repeated exposure may cause skin dryness or cracking.

Chronic effects from short and long-term exposure

Trade Foam & Guncleaner

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Red skin. Skin rash/inflammation. Dry/sore throat. Headache. Nausea. Feeling of weakness. Loss of weight. Possible inflammation of the respiratory tract.

SECTION 12: Ecological information

12.1. Toxicity

Trade Foam & Guncleaner

No (test)data on the mixture available

Judgement is based on the relevant ingredients

acetone

- CCCOTTC									
		Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes		LC50	EU Method C.1	5540 mg/l	96 h	Salmo gairdneri	Static system		Experimental value; Nominal concentration
Acute toxicity crustacea		LC50	Other	12600 mg/l	48 h	Daphnia magna	Static system		Experimental value; Nominal concentration
Toxicity algae and other aqu plants	atic	EC50		> <mark>70</mark> 00 mg/l		Selenastrum capricornutum	Static system		Experimental value; Nominal concentration
Long-term toxicity aquatic crustacea			Equivalent to OECD 211	2212 mg/l	28 day(s)	Daphnia magna	Flow-through system	Fresh water	Experimental value

Conclusion

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

12.2. Persistence and degradability

acetone

Biodegradation water

Method	Value	Duration	Value determination
OECD 301B: CO2 Evolution Test	90.9 %	28 day(s)	Experimental value

Conclusion

Contains readily biodegradable component(s)

12.3. Bioaccumulative potential

<u>Trade Foam & Guncleaner</u>

Log Kow

Method	Remark	Value	Temperature		Value determination	
	Not applicable (mixture)					

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acetone

BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		0.69		Pisces	

BCF other aquatic organisms

Parameter	Method	Value	Duration	Species	Value determination
BCF	BCFWIN	3			Calculated value

Log Kow

Method	Remark	Value	Temperature	Value determination
		-0.24		Test data

Conclusion

Does not contain bioaccumulative component(s)

12.4. Mobility in soil

No (test)data on mobility of the components available

12.5. Results of PBT and vPvB assessment

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

12.6. Other adverse effects

Trade Foam & Guncleaner

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).

16 05 04* (gases in pressure containers and discarded chemicals: gases in pressure containers (including halons) containing hazardous substances). 20 01 29* (separately collected fractions (except 15 01): detergents containing hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

Refer to manufacturer/supplier for information on recovery/ recycling. 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)

toda (ribit)	
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 hazardo <mark>us substance mark</mark>	no
14.6. Special precautions for user	
Special provisions	190
Special provisions	327
Special provisions	344
Special provisions	625

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Limited quantities	Combination packagings: not more than 1 liter per inner packaging for
ail (DID)	liquids. A package shall not weigh more than 30 kg. (gross mass)
ail (RID) 14.1. UN number	
UN number	1950
14.2. UN proper shipping name	1330
Proper shipping name	Aerosols
14.3. Transport hazard class(es)	
Hazard identification number	23
Class	2
Classification code	5F
14.4. Packing group	
Packing group	
Labels	2.1
14.5. Environmental hazards	
Environmentally hazardous substance mark	no
14. <u>6</u> . 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 fo liquids. A package shall not weigh more than 30 kg. (gross mass)
nland waterways (ADN) 14.1. UN number	
UN number	1950
14.2. UN proper shipping name	
Proper shipping name	Aerosols
14.3. Transport hazard class(es)	
Class	2
Classification code	5F
14.4. Packing group	
Packing group	
Labels	2.1
14.5. Environmental hazards	
Environmentally hazardous substance mark	no
14. <u>6</u> . 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)
oa (IMDC /IMSPC)	
ea (IMDG/IMSBC) 14.1. UN number	
	1950
UN number 14.2. UN proper shipping name	1950
Proper shipping name	Aerosols
14.3. Transport hazard class(es)	Actosols
Class	2.1
14.4. Packing group	F-1-2
Packing group	
Labels	2.1
14.5. Environmental hazards	
Marine pollutant	
Environmentally hazardous substance mark	no
14.6. Special precautions for user	
Special provisions	63
Special provisions	190
Special provisions	277
Special provisions	327
Special provisions	344
Special provisions	381
Special provisions	959
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)
14.7. Transport in bulk according to Annex II of Marpol and the	
Annex II of MARPOL 73/78	Not applicable

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Air (ICAO-TI/IATA-DGR)				
14.1. UN number				
UN number		1950		
14.2. UN proper shipping nar	ne			
Proper shipping name		Aerosols, flar	mmable	
14.3. Transport hazard class	es)			
Class		2.1		
14.4. Packing group				
Packing group				
Labels		2.1		
14.5. Environmental hazards				
Environmentally hazardo	us substance mark	no		
14.6. Special precautions for	user			
Special provisions		A145		
Special provisions		A167		
Special provisions		A802		
Passenger and cargo transp	port			
Limited quantities: maxin	num net quantity per 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	
99.2 % - 100 %			

Ingredients according to Regulation (EC) No 648/2004 and amendments ≥30% aliphatic hydrocarbons

REACH Annex XVII - Restriction

Reason for revision: 3

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 dang	serous s	dustances, mixtures and articles	3.	
		Designation of the substance, of the	group of	Conditions of restriction
		substances or of the mixture		
· acetone		Liquid substances or mixtures fulfillir	ng the	1. Shall not be used in:
doctoric		criteria for any of the following hazar		— ornamental articles intended to produce light or colour effects by means of different
		or categories set out in Annex I to Re		phases, for example in ornamental lamps and ashtrays,
		(EC) No 1272/2008:	eguiation	— tricks and jokes,
			27.20	
		(a) hazard classes 2.1 to 2.4, 2.6 and		— games for one or more participants, or any article intended to be used as such, even with
		types A and B, 2.9, 2.10, 2.12, 2.13 ca		
		and 2, 2.14 categories 1 and 2, 2.15 t		2. Articles not complying with paragraph 1 shall not be placed on the market.
		F;		3. Shall not be placed on the market if they contain a colouring agent, unless required for
		(b) hazard classes 3.1 to 3.6, 3.7 adve	erse	fiscal reasons, or perfume, or both, if they:
		effects on sexual function and fertilit	ty or on	— can be used as fuel in decorative oil lamps for supply to the general public, and,
		development, 3.8 effects other than	narcotic	— present an aspiration hazard and are labelled with H304,
		effects, 3.9 and 3.10;		4. Decorative oil lamps for supply to the general public shall not be placed on the market
		(c) hazard class 4.1;		unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted
		(d) hazard class 5.1.		by the European Committee for Standardisation (CEN).
		(,		5. Without prejudice to the implementation of other Community provisions relating to the
				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 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 of
				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 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";
			- 1	c) lamp oils and grill lighters, labelled with 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
			- 1	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 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 H304, shall by 1 December 2011, and annually thereafter, provide data
				on alternatives to lamp oils and grill lighter fluids labelled H304 to the competent authority
				in the Member State concerned. Member States shall make those data available to the
				Commission.'
· acetone		Substances classified as flammable g	gases	1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol
		category 1 or 2, flammable liquids ca	ategories	dispensers are intended for supply to the general public for entertainment and decorative
				purposes such as the following:
		substances and mixtures which, in co		— metallic glitter intended mainly for decoration,
		with water, emit flammable gases, ca		— artificial snow and frost,
		2 or 3, pyrophoric liquids category 1		— "whoopee" cushions,
<u></u>		z o. o, p, ropriorie ilquius category I	<u>.</u>	·····opec casilloid,

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that Regulation or not.	— imitation excrement, — horns for parties, — decorative flakes and foams, — artificial cobwebs, — stink bombs. 2. Without prejudice to the application of other Community provisions on the classification, backaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly
2. pri	 decorative flakes and foams, artificial cobwebs, stink bombs. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the
	 artificial cobwebs, stink bombs. 2. Without prejudice to the application of other Community provisions on the classification, backaging and labelling of substances, suppliers shall ensure before the placing on the
	 — stink bombs. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the
2. pr m	Without prejudice to the application of other Community provisions on the classification, backaging and labelling of substances, suppliers shall ensure before the placing on the
pi	packaging and labelling of substances, suppliers shall ensure before the placing on the
m	
	market that the prekaging of agreed dispensers referred to above is marked visibly legible
	Harket triat trie packaging of aerosol dispensers referred to above is marked visibly, legibly
ar la	and indelibly with:
"F	"For professional users only".
3.	3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers
re	referred to Article 8 (1a) of Council Directive 75/ 324/EEC.
4.	4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the
lm	market unless they conform to the requirements indicated.
lational legislation Belgium	

Trade Foam & Guncleaner
No data available

National legislation The Netherlands

Trade Foam & Guncleaner

Waterbezwaarlijkheid Z (2); Algemene Beoordelingsmethodiek (ABM)

National legislation France

Trade Foam & Guncleaner

No data available

National legislation Germany

Trade Foam & Guncleaner

	WGK		1; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017				
a	<u>cetone</u>						
	TA-Luft		5.2.5				
	TRGS900 - Risiko der		Aceton; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden				
	Fruchtschädigung						

National legislation United Kingdom

Trade Foam & Guncleaner

No data available

Other relevant data

Trade Foam & Guncleaner

No data available

acetone

TLV - Carcinogen Acetone; A4

15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

SECTION 16: Other information

Full text of any H-statements referred to under heading 3:

H220 Extremely flammable gas.

H222 Extremely flammable aerosol.

H225 Highly flammable liquid and vapour.

H229 Pressurised container: May burst if heated.

H280 Contains gas under pressure; may explode if heated.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

(*) INTERNAL CLASSIFICATION BY BIG

ADI Acceptable daily intake

AOEL Acceptable operator exposure level

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

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