		SA	TY DATA SHEET			
		n 2023 & 878/EU				
	I	RAWLPLUG	JN FOAM SUPER EFFJ R-RPP-65	CIENT		
Creati	on date		R-RPP-05			
	on date	03rd October 20 25th July 2024	Version	2.2		
SECTI	ON 1: Identification	of the substance	ixture and of the company/und	ertaking		
1.1.	Product identifier		RAWLPLUG GUN FO R-RPP-65	DAM SUPER EFFICIENT		
	Substance / mixture		mixture			
	UFI		DDQ0-794S-V00N-	TPV8		
1.2.			ce or mixture and uses advised	against		
	Mixture's intended					
	in construction – Single-component polyurethane foam in gun applicator version, with increased efficiency up to 65L, is destined for assembling, insulation and sealing.					
	Main intended use					
	PC-ADH-2	Adhesiv adhesiv	and sealants - building and constru	ction works (except cement based		
	Mixture uses advis	ed against				
	The product should n	ot be used in ways	er than those referred in Section 1			
1.3.	Details of the supp	lier of the safety	a sheet			
	Supplier					
	Name or trade	name	Rawlplug Limited			
	Address		Skibo Drive, Thornl 8JR	liebank Industrial Estate, Glasgow, G46		
			United Kingdom			
	Phone		+44(0)1416387963	1		
	Competent person	responsible for t	safety data sheet			
	Name		Rawlplug			
	E-mail		rawltech@rawlplug	.co.uk		
1.4.	Emergency telepho	one number				
	NHS 111 (England) NHS 24 (Scotland)	Na	al emergency phone number Engla	nd, Scotland & Wales (24hrs): 111		
	NHS Direct (Wales) Local GP (Northern In	reland) Ca	ur Local GP (9:00-17:00)			

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Aerosol 1, H229, H222 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319 Acute Tox. 4, H332 Resp. Sens. 1, H334 STOT SE 3, H335 Carc. 2, H351 Lact., H362 STOT RE 2, H373 (respiratory tract (inhalation)) Aquatic Acute 1, H400 Aquatic Chronic 1, H410

	SAFET						
in accordance with UK REACH (amendment) Regulation 2023 &							
		007/2006 as amended by 2020/878/EU I FOAM SUPER EFFICIENT					
		R-RPP-65					
reation date	03rd October 2010						
evision date	25th July 2024	Version 2.2					
2. Label elem							
Hazard pic	togram	\wedge					
		J.					
Ĭ		<u><u><u> </u></u></u>					
Signal wor Danger	ď						
5	substances						
Tris(2-chlor	iphenylmethane diisocyanate, Polyr o-1-methylethyl) phosphate 4-17, chloro Itements	neric MDI					
H222	· · · · · · · · · · · · · · · · · · ·	nmable aerosol.					
H229		ntainer: May burst if heated.					
H315	Causes skin irr						
H317		May cause an allergic skin reaction. Causes serious eye irritation.					
H319							
H332	Harmful if inha						
H334		ergy or asthma symptoms or breathing difficulties if inhaled.					
H335		piratory irritation.					
H351		causing cancer.					
H362 H373	-	May cause harm to breast-fed children. May cause damage to the respiratory tract (inhalation) through prolonged or					
	repeated expos	repeated exposure.					
H410		equatic life with long lasting effects.					
	nary statements	iss is presided, have preduct container or label at hand					
P101		ice is needed, have product container or label at hand.					
P102	•	ach of children.					
P210	No smoking.	m heat, hot surfaces, sparks, open flames and other ignition source					
P211		on an open flame or other ignition source.					
P251	•	or burn, even after use.					
P260	Do not breathe						
P271 P273		pors or in a well-ventilated area. to the environment.					
P273 P280							
P200 P302+P352		/e gloves/protective clothing/eye protection/face protection. Vash with plenty of water and soap.					
P302+P352		Remove person to fresh air and keep comfortable for breathing.					
P305+P351		inse cautiously with water for several minutes. Remove contact					
		ent and easy to do. Continue rinsing.					
P410+P412		unlight. Do no expose to temperatures exceeding 50 °C.					
P501		itents/container to according to applicable regulations.					
Suppleme	ntal information						
EUH204		anates. May produce an allergic reaction.					
EUH066		osure may cause skin dryness or cracking.					
		ly sensitised to diisocyanates may develop allergic reactions when					
		duct. Persons suffering from asthma, eczema or skin problems shou					
		including dermal contact, with this product. This product should no conditions of poor ventilation unless a protective mask with an					
		sections of poor ventilation ameas a protective mask with all					
	appropriate da	is filter (i.e. type A1 according to standard EN 14387) is used.					
		as filter (i.e. type A1 according to standard EN 14387) is used. gust 2023 adequate training is required before industrial or					



in accordance with UK REACH (amendment) Regulation 2023 & Regulation (EC) No 1907/2006 as amended by 2020/878/EU

RAWLPLUG GUN FOAM SUPER EFFICIENT R-RPP-65

Creation date	03rd October 2010		
Revision date	25th July 2024	Version	2.2

Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger.

2.3. Other hazards

The mixture contains substances that meet the PBT or vPvB criteria in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH), as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	tification numbers Substance name Content in		Note	
CAS: 9016-87-9	Polymeric diphenylmethane diisocyanate, Polymeric MDI	40-50	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319 Acute Tox. 4, H332 Resp. Sens. 1, H334 STOT SE 3, H335 Carc. 2, H351 STOT RE 2, H373 (respiratory tract (inhalation)) Specific concentration limit: Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335: C \geq 5 % Resp. Sens. 1, H334: C \geq 0.1 %	
CAS: 1244733-77-4 EC: 807-935-0 Registration number: 01-2119486772-26- xxxx	Tris(2-chloro-1-methylethyl) phosphate	<20	Acute Tox. 4, H302 Carc. 2, H351 Aquatic Chronic 3, H412	6
Index: 603-019-00-8 CAS: 115-10-6 EC: 204-065-8 Registration number: 01-2119472128-37- xxxx	dimethyl ether	<12	Flam. Gas 1, H220 Press. Gas (liquefied gas), H280	2, 3
Index: 602-095-00-X CAS: 85535-85-9 EC: 287-477-0 Registration number: 01-2119519269-33- xxxx	alkanes, C14-17, chloro	<10	Lact., H362 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=10) EUH066	4, 5
Index: 601-004-00-0 CAS: 106-97-8 EC: 203-448-7 Registration number: 01-2119474691-32- xxxx	butane	<4	Flam. Gas 1, H220 Press. Gas (liquefied gas), H280	1, 2
Index: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9 Registration number: 01-2119486944-21- xxxx	propane	<3	Flam. Gas 1, H220 Press. Gas (liquefied gas), H280	2

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RAWLPLUG GUN FOAM SUPER EFFICIENT R-RPP-65

Creation date Revision date 03rd October 2010

Revision date	25th July 2024	Version	2.2	
Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 601-004-00-0 CAS: 75-28-5 EC: 200-857-2 Registration number: 01-2119485395-27- xxxx	isobutane	<3	Flam. Gas 1, H220 Press. Gas (liquefied gas), H280	1, 2

Notes

- 1 Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
- 2 Note U (Table 3): When put on the market gases have to be classified as "Gases under pressure", in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned:

Press. Gas (Comp.) Press. Gas (Liq.) Press. Gas (Ref. Liq.) Press. Gas (Diss.)

Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).

- 3 A substance for which exposure limits are set.
- 4 Substance of very high concern SVHC.
- 5 Persistent, bioaccumulative and toxic or very persistent and very bioaccumulative
- 6 Substance of unknown or variable composition, complex reaction products or biological materials UVCB.

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

If inhaled

Remove person to fresh air and keep comfortable for breathing. In the event of issues, find medical advice.

If on skin

Remove contaminated clothes immediately. Wash with plenty of soap and water. Provide medical treatment if skin irritation persists.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed). Rinsing should continue at least for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Provide medical treatment, specialized if possible.

If swallowed

DO NOT INDUCE VOMITING! Rinse out the mouth with clean water. Provide medical treatment.

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

If inhaled

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

If on skin

May cause an allergic skin reaction. Possible irritation.

If in eyes

Causes serious eye irritation. Temporary feeling of burning and redness.

If swallowed

Not expected.



in accordance with UK REACH (amendment) Regulation 2023 & Regulation (EC) No 1907/2006 as amended by 2020/878/EU

RAWLPLUG GUN FOAM SUPER EFFICIENT R-RPP-65

Creation date 03rd October 2010 Revision date 25th July 2024

2.2

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide, powder, water spray jet, water mist. Accommodate extinguishing components to the location of fire. **Unsuitable extinguishing media**

Version

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Trace amounts of cyanide may be formed. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing. Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Do not inhale gases and vapours. Use personal protective equipment for work. Remove all ignition sources; provide sufficient ventilation. Follow the instructions in the Sections 7 and 8.

6.2. Environmental precautions

Do not allow to enter drains. Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Uncured foam can be removed with a cloth and solvents, e.g. acetone. Collect in a waste container. Ventilate the room. Remove hardened foam mechanically. Hardening of the foam occurs when exposed to humidity. Dispose of the collected material according to the instructions in the section 13.

6.4. Reference to other sections

For information on safe handling, see section 7. For information on personal protective equipment, see section 8. For information on disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Use personal protective equipment as per Section 8. Do not get in eyes, on skin. Do not inhale gases and vapours. Use only outdoors or in a well-ventilated area. Protect against sources of heating and ignition or direct sunlight. Do not eat, drink or smoke when using this product. Do not pierce or burn, even after use. Wash hands and exposed parts of the body thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Store in originally closed containers in an upright position, in cold, dry and well ventilated areas designated for this purpose. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not expose to sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Recommended storage temperature is from +5 °C to +30 °C (optimally +20 °C). Protect against frost. Do not store together with food, drink and animal feed. Keep out of reach of children.

Content	Packaging type	Material of package
830 ml	can / tin	FE
Storage class	2B -	Aerosols
Storage temperature		+30 °C
Specific end use(s)		

7.3. Specific end use(s) not available



in accordance with UK REACH (amendment) Regulation 2023 & Regulation (EC) No 1907/2006 as amended by 2020/878/EU

RAWLPLUG GUN FOAM SUPER EFFICIENT

R-RPP-65

Creation date	03rd October 2010		
Revision date	25th July 2024	Version	2.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

European Union	Commission Directive 2000/39/E		
Substance name (component)	Туре	Value	
dimethyl other (CAS) 115 10 6)	OEL 8 hours	1920 mg/m ³	
dimethyl ether (CAS: 115-10-6)	OEL 8 hours	1000 ppm	

DNEL

alkanes, C14-1	7, chloro				
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Consumers (0)	Oral	0.58 mg/kg bw/day	Chronic effects systemic		
Consumers (0)	Dermal	28.75 mg/kg bw/day	Chronic effects systemic		
Workers	Dermal	47.9 mg/kg bw/day	Chronic effects systemic		
Consumers (0)	Inhalation	2 mg/m ³	Chronic effects systemic		
Workers	Inhalation	6.7 mg/m ³	Chronic effects systemic		
Polymeric diph	enylmethane	diisocyanate,	Polymeric MDI		
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers (0)	Inhalation	0.1 mg/m ³	Acute effects local		
Workers (0)	Inhalation	0.05 mg/m ³	Chronic effects local		
Consumers (0)	Inhalation	0.05 mg/m ³	Acute effects local		
Consumers (0)	Inhalation	0.025 mg/m ³	Chronic effects local		
Tris(2-chloro-1	-methylethyl)	phosphate			
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Consumers	Inhalation	5.6 mg/m ³	Acute effects systemic		
Consumers	Dermal	1.04 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	1.45 mg/m ³	Chronic effects systemic		
Consumers	Oral	0.52 mg/kg bw/day			
Workers	Dermal	2.91 mg/kg bw/day	Chronic effects systemic		
Consumers	Oral	2 mg/kg bw/day	Acute effects systemic		
Workers	Inhalation	8.2 mg/m ³	Chronic effects systemic		
Workers	Inhalation	22.6 mg/m ³	Acute effects systemic		



in accordance with UK REACH (amendment) Regulation 2023 & Regulation (EC) No 1907/2006 as amended by 2020/878/EU

RAWLPLUG GUN FOAM SUPER EFFICIENT

R-RPP-65

Creation date Revision date

 ate
 03rd October 2010

 ate
 25th July 2024
 Version
 2.2

PNEC

alkanes, C14-17, chloro					
Route of exposure	Value	Value determination	Source		
Drinking water	0.001 mg/l				
Marine water	0.0002 mg/l				
Microorganisms in sewage treatment	80 mg/l				
Freshwater sediment	2.6 mg/kg of dry substance of sediment				
Sea sediments	13 mg/kg of dry substance of sediment				
Soil (agricultural)	11.9 mg/kg of dry substance of soil				
Polymeric diphenylmetha	ne diisocyanate, Po	olymeric MDI			
Route of exposure	Value	Value determination	Source		
Drinking water	3.7 µg/l				
Marine water	0.37 µg/l				

Marine water	0.37 µg/l	
Freshwater sediment	11.7 mg/kg of dry substance of sediment	
Sea sediments	1.17 mg/kg of dry substance of sediment	
Soil (agricultural)	2.33 mg/kg of dry substance of soil	
Water (intermittent release)	37 µg/l	

Tris(2-chloro-1-methylet	Tris(2-chloro-1-methylethyl) phosphate					
Route of exposure	Value	Value determination	Source			
Water (intermittent release)	0.51 mg/l					
Marine water	0.032 mg/l					
Soil (agricultural)	0.34 mg/kg of dry substance					
Freshwater sediment	11.5 mg/kg of dry substance					
Sea sediments	1.15 mg/kg of dry substance					
Microorganisms in sewage treatment	7.84 mg/l					
Oral	11.6 mg/kg of food					
Drinking water	0.32 mg/l					
Microorganisms in sewage treatment	19.1 mg/l					



in accordance with UK REACH (amendment) Regulation 2023 & Regulation (EC) No 1907/2006 as amended by 2020/878/EU

RAWLPLUG GUN FOAM SUPER EFFICIENT R-RPP-65

Revision date	25th July 2024	Version	2.2
Creation date	03rd October 2010		

8.2. Exposure controls

Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

EN166 - Personal Eye Protection Standard. Protective goggles.

Skin protection

Hand protection: Protective gloves resistant to the product according to EN ISO 374-1. Use gloves of PVC or rubber (type of gloves to protect against chemicals should chosen depending on the concentration and quantity of the hazardous substance). For special applications, we recommend contacting the manufacturer of protective gloves in order to explain the resistance of the aforementioned gloves for chemicals. Contaminated skin should be washed thoroughly with water and soap.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Use a mask with a gas filter in a poorly ventilated environment (e.g. type A1 according to EN 14387).

Thermal hazard

not available

Environmental exposure controls

SECTION 9: Physical and chemical properties

Observe usual measures for protection of the environment, see Section 6.2.

More information

Personal protective equipment should be selected in accordance with the relevant EN standards and in agreement with their supplier.

9.1. Information on basic physical and chemical properties Physical state liquid Colour vellow color intensity liaht characteristic Odour Melting point/freezing point not determined Polymeric diphenylmethane diisocyanate, Polymeric <0 °C (DIN 51556) MDI (CAS: 9016-87-9) Boiling point or initial boiling point and boiling range -42.1 °C Polymeric diphenylmethane diisocyanate, Polymeric >300 °C MDI (CAS: 9016-87-9) inflammable Flammability Polymeric diphenylmethane diisocyanate, Polymeric non-inflammable MDI (CAS: 9016-87-9) Lower and upper explosion limit 1.5 % bottom 10.9 % upper -95 °C Flash point Polymeric diphenylmethane diisocyanate, Polymeric >200 °C MDI (CAS: 9016-87-9) Auto-ignition temperature not applicable Polymeric diphenylmethane diisocyanate, Polymeric >600 °C (EU Method A.15) MDI (CAS: 9016-87-9) Decomposition temperature data not available pН data not available Kinematic viscosity data not available Solubility in water insoluble Partition coefficient n-octanol/water (log value) data not available Polymeric diphenylmethane diisocyanate, Polymeric reaguje z wodą MDI (CAS: 9016-87-9) Vapour pressure 0.51 MPa at 20 °C

in accordance with UK REACH (amendment) Regulation 2023 & Regulation (EC) No 1907/2006 as amended by 2020/878/EU

RAWLPLUG GUN FOAM SUPER EFFICIENT R-RPP-65 Creation date 03rd October 2010 Revision date 25th July 2024 2.2 Version Polymeric diphenylmethane diisocyanate, Polymeric <0.00001 mm Hg at 25 °C (Literatura) MDI (CAS: 9016-87-9) Density and/or relative density Density 0.96 g/cm3 at 20 °C Polymeric diphenylmethane diisocyanate, Polymeric 1.23 g/cm³ at 25 °C (Literatura) MDI (CAS: 9016-87-9) Relative vapour density data not available Particle characteristics data not available Form liquid, spray 9.2. **Other information** not available

SECTION 10: Stability and reactivity

10.1. Reactivity

When used and stored in the standard way, the mixture is not reactive.

10.2. Chemical stability

The product is stable under normal conditions.

- 10.3. Possibility of hazardous reactions
 Reacts with substances containing an active hydrogen atom (amines, alcohols), reacts with water. Avoid strong acids and alkalis.

 10.4. Conditions to avoid
 - Pressurised container: May burst if heated. Protect against flames, sparks, overheating and against frost.
- 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products Not developed under normal uses.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

alkanes, C14-17, chloro								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex		
Oral	LD50		>4000 mg/kg		Rat			
butane								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex		
Inhalation	LC50		658 mg/l	4 hours	Rat			
Polymeric diphen	ylmethane d	iisocyanate, Pol	ymeric MDI					
				1				
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex		
Route of exposure Oral	Parameter LD50	Method	Value >2000 mg/kg		Species Rat (Rattus norvegicus)	Sex F/M		
Route of exposure Oral Inhalation		Method OECD 403			Rat (Rattus			



in accordance with UK REACH (amendment) Regulation 2023 & Regulation (EC) No 1907/2006 as amended by 2020/878/EU

RAWLPLUG GUN FOAM SUPER EFFICIENT

R-RPP-65

Creation date Revision date 03rd October 2010 25th July 2024

2.2

Tris(2-chloro-1-n	Tris(2-chloro-1-methylethyl) phosphate								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex			
Oral	LD50		632 mg/kg		Rat	F			
Dermal	LD50	OECD 402	>2000 mg/kg		Rabbit				
Dermal	LD50	OECD 402	>2000 mg/kg		Rat				
Inhalation (dust/mist)	LC50	OECD 403	>7 mg/l	4 hours	Rat	F/M			
Oral	LD50		>500-<2000 mg/kg		Rat (Rattus norvegicus)	Μ			

Version

Skin corrosion/irritation

Causes skin irritation.

Polymeric diphenylmethane diisocyanate, Polymeric MDI						
Route of exposure	Result	Method	Exposure time	Species		
Dermal	Irritating	OECD 404		Rabbit		

Serious eye damage/irritation

Causes serious eye irritation.

Polymeric diphenylmethane diisocyanate, Polymeric MDI						
Route of exposure	Result	Method	Exposure time	Species		
Eye	No effect	OECD 405		Rabbit		

Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Polymeric diphenylmethane diisocyanate, Polymeric MDI							
Route of exposure Result Method Exposure time Species Sex					Sex		
Skin	Sensitizing	OECD 429		Guinea-pig			
Inhalation	Sensitizing			Rat			

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Polymeric diphenylm	Polymeric diphenylmethane diisocyanate, Polymeric MDI								
Result	Method	Exposure time	Specific target organ	Species	Sex				
Negative	EU B.13/14			Bacteria (Salmonella typhimurium)					
Negative	OECD 474	3 weeks (1 hour/day, 1 days/week)		Rat	Μ				

Carcinogenicity

Suspected of causing cancer.

Tris(2-chloro-1-methylethyl) phosphate							
Route of exposure	Parameter	Value	Exposure time	Result	Species	Sex	
Oral 2 years Positive Rat F/M							



in accordance with UK REACH (amendment) Regulation 2023 & Regulation (EC) No 1907/2006 as amended by 2020/878/EU

RAWLPLUG GUN FOAM SUPER EFFICIENT

R-RPP-65

Creation date Revision date 03rd October 2010 25th July 2024

Version

2.2

Tris(2-chloro-1-methylethyl) phosphate							
Route of exposure	Parameter	Value	Exposure time	Result	Species	Sex	
Oral			2 years	Positive	Mouse	F/M	

Reproductive toxicity

May cause harm to breast-fed children.

Polymeric diphenylmethane diisocyanate, Polymeric MDI								
Effect	Parameter	Method	Value	Exposure time	Result	Species	Sex	
	NOAEC	OECD 414	4 mg/m ³ of air	10 days (6 hour/day)	Maternal toxicity	Rat	F	

Toxicity for specific target organ - single exposure

May cause respiratory irritation.

Polymeric diphenylmethane diisocyanate, Polymeric MDI							
Route of exposure	Parameter	Value	Result	Species	Sex		
Inhalation			Irritating				

Toxicity for specific target organ - repeated exposure

Może powodować uszkodzenie dróg oddechowych poprzez długotrwałe lub narażenie powtarzane w następstwie wdychania.

Polymeric d	Polymeric diphenylmethane diisocyanate, Polymeric MDI									
Route of exposure	Parameter	Method	Value	Exposure time	Specific target organ	Result	Species	Sex		
Inhalation (aerosols)		OECD 453	0.23 mg/m ³ of air	2 years (17 hour/day, 5 days/week)	Lungs		Rat	F		

Repeated dose toxicity

Tris(2-chloro-1-methylethyl) phosphate										
Route of exposure	Parameter	Result	Value	Exposure time	Species	Sex				
Oral	LOAEL		52 mg/kg		Rat					

Aspiration hazard

Based on available data the classification criteria are not met.

Polymeric diphen	Polymeric diphenylmethane diisocyanate, Polymeric MDI									
Route of exposure Result Exposure time Species Sex Value determination										
					Insufficient data					

11.2. Information on other hazards

Endocrine disrupting properties: Based on available data, the criteria for classification are not met.

in accordance with UK REACH (amendment) Regulation 2023 & Regulation (EC) No 1907/2006 as amended by 2020/878/EU

RAWLPLUG GUN FOAM SUPER EFFICIENT

R-RPP-65

Creation date03rd October 2010Revision date25th July 2024

Version

2.2

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects. **Acute toxicity**

alkanes C14-17 chloro

alkanes, C14	aikanes, C14-17, chioro									
Parameter	Method	Value	Exposure time	Species	Environmen t					
EC50	OECD 202	0.006 mg/l	48 hours	Daphnia (Daphnia magna)						
LC50	OECD 203	DECD 203 >5000 mg/l 96 hours Fish (Alburnus alburnus)								
EC50	OECD 201	>3.2 mg/l	72 hours	Algae (Selenastrum capricornutum)						

Polymeric dip	olymeric diphenylmethane diisocyanate, Polymeric MDI									
Parameter	Parameter Method		Exposure time	Species	Environmen t					
LC50	OECD 203	>1000 mg/l	96 hours	Fish (Danio rerio)	Fresh water					
EC50	OECD 202	3.7 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water					
EC50	OECD 201	>100 mg/l	72 hours	Algae (Desmodesmus subspicatus)	Fresh water					
EC50	OECD 209	>100 mg/l	>100 mg/l 3 hours Microorgan		Activated sludge					
LC50	OECD 207	>1000 mg/kg of 14 days Invertebrates dry substance of soil		Invertebrates (Eisenia fetida)						
EC50	OECD 208	D 208 >1000 mg/kg of dry substance of soil 14 days Higher plants (A sativa)		Higher plants (Avena sativa)						
EC50	OECD 208	>1000 mg/kg of dry substance of soil	14 days	Higher plants (Lactuca sativa)						

Tris(2-chloro	Tris(2-chloro-1-methylethyl) phosphate									
Parameter	Method	Value	Exposure time	Species	Environmen t					
LC50		56.2 mg/l	96 hours	Fish (Danio rerio)	Fresh water					
EC50		131 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water					
EC50	OECD 201	82 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	Fresh water					
LC50		51 mg/l	96 hours	Fish (Pimephales promelas)	Fresh water					
EC50		784 mg/l	3 hours	Microorganisms	Activated sludge					
EC10		191 mg/l	3 hours	Microorganisms	Activated sludge					



in accordance with UK REACH (amendment) Regulation 2023 & Regulation (EC) No 1907/2006 as amended by 2020/878/EU

RAWLPLUG GUN FOAM SUPER EFFICIENT

R-RPP-65

Creation date Revision date

03rd October 2010 25th July 2024 Version 2.2

Chronic toxicity

alkanes, C14-17	alkanes, C14-17, chloro									
Parameter	Method	Value	Exposure time	Species	Environmen t					
NOEC	OECD 202	0.01 mg/l	21 days	Daphnia (Daphnia magna)						
NOEC		0.22 mg/l	60 days	Crustaceans						
LOEC		0.018 mg/l	21 days	Daphnia (Daphnia magna)						

Polymeric diphenylmethane diisocyanate, Polymeric MDI									
Parameter	Method	Value	Exposure time	Species	Environmen t				
NOEC	OECD 211	≥10 mg/l	21 days	Daphnia (Daphnia magna)	Fresh water				

Tris(2-chloro-1-methylethyl) phosphate										
Parameter	Method	Value	Exposure time	Species	Environmen t					
NOEC	OECD 201	13 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	Fresh water					
NOEC	OECD 202	32 mg/l	21 days	Daphnia (Daphnia magna)	Fresh water					

12.2. Persistence and degradability

not available Half-life time

Polymeric diphenylmethane diisocyanate, Polymeric MDI								
Route of exposure	Value	Value determination	Source					
Air	8 hours							
Drinking water	5 minutes							
Soil (agricultural)	24 hours							

Biodegradability

alkanes, C14-	alkanes, C14-17, chloro										
Parameter	Method	Value	Exposure time	Environment	Result						
					Biodegradable						
Dolymonic din	hanvin athan a dii	novenate De									
Polymeric dip	henylmethane dii	socyanate, Po			_						
Parameter	Parameter Method Value Exposure time Environment Result										
	OECD 302C	0 %	28 hours		Not biodegradable, Persistent						

12.3. Bioaccumulative potential

Data not available.

alkanes, C14-17, chloro										
Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]				
BCF		<2000 l/kg								



in accordance with UK REACH (amendment) Regulation 2023 & Regulation (EC) No 1907/2006 as amended by 2020/878/EU

RAWLPLUG GUN FOAM SUPER EFFICIENT

R-RPP-65

Creation date Revision date 03rd October 2010

25th July 2024

Version

2.2

Polymeric diph	Polymeric diphenylmethane diisocyanate, Polymeric MDI										
Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]					
BCF	OECD 305	200	28 days	Fish (Cyprinus carpio)	Fresh water						

12.4. Mobility in soil

Data not available.

Polymeric diphenylmethane diisocyanate, Polymeric MDI			
Parameter	Value	Environment	Temperature
Log Koc	4.5		20°C

12.5. Results of PBT and vPvB assessment

PBT: alkanes, C14-C17, chloro [CAS: 85535-85-9] vPvB:

alkanes, C14-C17, chloro [CAS: 85535-85-9]

12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

The isocyanate reacts with water in the boundary layer to form CO and the solid, insoluble product with high melting point (polyurea). This reaction is strong intensifying in the presence of surface-active agents (e.g., liquid soaps) or water-soluble solvents. According to the experience so far the polyurea is not reactive and does not decompose. The impact of MDI on global warming, reducing the thickness of the layer ozonosphere in the stratosphere or in the accumulation of ozone in the troposphere is not expected.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

16 05 04* gases in pressure containers (including halons) containing hazardous substances

08 04 09* waste adhesives and sealants containing organic solvents or other hazardous substances

Packaging waste type code

15 01 01 paper and cardboard packaging

15 01 10* packaging containing residues of or contaminated by hazardous substances

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

14.1. UN number or ID number

- UN 1950
- 14.2. UN proper shipping name

AEROSOLS

	•••••	ETY DATA SHEET	_	RAWLPLUG ®		
		1907/2006 as amended by 2020/87				
	RAWLPLUG GUN FOAM SUPER EFFICIENT					
		R-RPP-65				
	on date 03rd October 2010					
Revisio	on date 25th July 2024	Version	2.2			
14.3.	Transport hazard class(es)					
1 4 4	2 Gases Packing group					
14.4.	not relevant					
14.5.						
1 1101	No					
14.6.	Special precautions for user					
	Always transport closed containers in an upright position, protected against accidental displacement. Do not transport or store in the passenger compartment. Do not leave it in a hot vehicle (risk of explosion). Reference in the Sections 4 to 8.					
14.7.	Maritime transport in bulk according to IMO instruments					
	non-applicable					
	Additional information					
	Disable LQ.					
	Hazard identification No.					
	UN number	1950				
	Classification code	5F 2.1+hazardous for the enviro				
	Safety signs		>			
	Road transport - ADR					
	Limited quantities	1 L				
	Sign					
		$\langle \rangle$				
	Tunnel restriction code	(D)				
	Air transport - ICAO/IATA					
	Packaging instructions passenger	203				
	Cargo packaging instructions	203				
	Marine transport - IMDG					
	EmS (emergency plan)	F-D, S-U				
	MFAG	620				



in accordance with UK REACH (amendment) Regulation 2023 & Regulation (EC) No 1907/2006 as amended by 2020/878/EU

RAWLPLUG GUN FOAM SUPER EFFICIENT

R-RPP-65

Creation date	03rd October 2010		
Revision date	25th July 2024	Version	2.2

SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended.

REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended.

Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Annex XIV. List of substances subject to authorization - Regulation (EC) No. 1907/2006 - not applicable.

Annex XVII. Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles - Regulation (EC) No. 1907/2006 - dimethyl ether, propane, butane, isobutane [40], tris(2-chloro-1-methylethyl) phosphate [3], chloroalkanes, C14-C17 [3], diphenylmethane diisocyanate, isomers and homologues [74].

Candidate list of substances of very high concern (SVHC) for authorisation (Article 59) - Medium-chain chlorinated paraffins (MCCP) UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain length within the range from C14 to C17

Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013 - not applicable.

Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer - not applicable.

SEVESO III: Directive 2012/18/EU of the European Parliament and of the Council of 4 July 2012 on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC - dimethyl ether, propane, butane, isobutane - P2, alkanes, C14-C17, chloro - E1

Directive (EU) 2018/851 of the European Parliament and of the Council of 30 May 2018 amending Directive 2008/98/EC on waste.

Directive (EU) 2018/852 of the European Parliament and of the Council of 30 May 2018 amending Directive 94/62/EC on packaging and packaging waste.

Decision 2000/532/EC establishing a list of wastes, as amended.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

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.
H362	May cause harm to breast-fed children.
H373	May cause damage to the respiratory tract (inhalation) through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Guidelines for safe handling	used in the safety data sheet
P101	If medical advice is needed, have product container or label at hand.

in accordance with UK REACH (amendment) Regulation 2023 & Regulation (EC) No 1907/2006 as amended by 2020/878/EU

RAWLPLUG GUN FOAM SUPER EFFICIENT R-RPP-65 Creation date 03rd October 2010 Revision date 25th July 2024 2.2 Version 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. P260 Do not breathe gazu/par. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water and soap. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P410+P412 Protect from sunlight. Do no expose to temperatures exceeding 50 °C. P501 Dispose of contents/container to according to applicable regulations. A list of additional standard phrases used in the safety data sheet EUH204 Contains isocyanates. May produce an allergic reaction. EUH066 Repeated exposure may cause skin dryness or cracking. Other important information about human health protection The user is responsible for adherence to all related health protection regulations. Key to abbreviations and acronyms used in the safety data sheet ADR European agreement concerning the international carriage of dangerous goods by road BCF **Bioconcentration Factor** CAS **Chemical Abstracts Service** CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures EC Identification code for each substance listed in EINECS EC10 Concentration of a substance when it is affected 10% of the population EC50 Concentration of a substance when it is affected 50% of the population EINECS European Inventory of Existing Commercial Chemical Substances EmS Emergency plan EU European Union EuPCS European Product Categorisation System IATA International Air Transport Association International Code For The Construction And Equipment of Ships Carrying IBC **Dangerous** Chemicals ICAO International Civil Aviation Organization IMDG International Maritime Dangerous Goods IMO International Maritime Organization INCI International Nomenclature of Cosmetic Ingredients ISO International Organization for Standardization IUPAC International Union of Pure and Applied Chemistry LC50 Lethal concentration of a substance in which it can be expected death of 50% of the population LD50 Lethal dose of a substance in which it can be expected death of 50% of the population I OAFI Lowest observed adverse effect level log Kow Octanol-water partition coefficient NOAEC No observed adverse effect concentration NOEC No observed effect concentration OEL Occupational Exposure Limits PBT Persistent, Bioaccumulative and Toxic ppm Parts per million

in accordance with UK REACH (amendment) Regulation 2023 & Regulation (EC) No 1907/2006 as amended by 2020/878/EU

RAWLPLUG GUN FOAM SUPER EFFICIENT R-RPP-65

Creation date Revision date	03rd October 2010 25th July 2024	Version	2.2	
	,			
Press. Gas (Comp.) Press. Gas (Diss.)	Gas under pressu	re: compressed gas		
· · · ·	Gas under pressu	-		
Press. Gas (Liq.)		1 5		
Press. Gas (Ref. Liq.)		re: refrigerated liquefied g		
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals			
RID	-	Agreement on the transport of dangerous goods by rail Four-figure identification number of the substance or article taken from the UN		
UN	Hour-figure identi Model Regulation		stance or article taken from the UN	
UVCB	Substances of un biological materia		tion, complex reaction products or	
VOC	Volatile organic c	ompounds		
vPvB	Very Persistent a	nd very Bioaccumulative		
Acute Tox.	Acute toxicity			
Aerosol	Aerosol			
Aquatic Acute	Hazardous to the	aquatic environment		
Aquatic Chronic	Hazardous to the	aquatic environment (chro	onic)	
Carc.	Carcinogenicity			
Eye Irrit.	Eye irritation			
Flam. Gas	Flammable gas			
Lact.	Lactation			
Press. Gas	Gases under pres	sure		
Resp. Sens.	Respiratory sensi	tization		
Skin Irrit.	Skin irritation			
Skin Sens.	Skin sensitization			
STOT RE	Specific target or	gan toxicity - repeated exp	oosure	
STOT SE	Specific target or	gan toxicity - single exposi	ure	
Training guidelines				
Inform the personnel	about the recommended wa	ays of use, mandatory prot	tective equipment, first aid and prohib	

ways of handling the product. Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The version 2.2 replaces the SDS version from 22.05.2023. Changes were made to sections 3, 9 and 15.

More information

Classification procedure - calculation method.

Statement

The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application. The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection.