SAFETY DATA SHEET



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

TIRE FOAM

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

1.1. Product identifier

: TIRE FOAM Product name

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

Novatio*

Industrielaan 5B

B-2250 Olen

2 +32 14 25 76 40

₼ +32 14 22 02 66 info@novatio.be

*NOVATIO is a registered trademark of Novatech International N.V.

Manufacturer of the product

Novatech International N.V.

Industrielaan 5B B-2250 Olen

2 +32 14 85 97 37

4 +32 14 85 97 38

info@tec7.be

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	category 1	H222: Extremely flammable aerosol.
Aerosol	category 1	H229: Pressurised container: May burst if heated.
Skin Irrit.	category 2	H315: Causes skin irritation.
Eye Irrit.	category 2	H319: Causes serious eye irritation.

2.2. Label elements





Signal word

H-statements

H222

Extremely flammable aerosol.

H229 H315 Pressurised container: May burst if heated.

H319

Causes serious eye irritation.

Causes skin irritation.

P-statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P210

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

P251 Do not pierce or burn, even after use.

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)

Technische Schoolstraat 43 A, B-2440 Geel http://www.big.be

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Publication date: 2018-08-08

Revision number: 0000 Product number: 60927

P280 Wear protective gloves, protective clothing and eye protection/face protection.

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 not expose to temperatures exceeding 50 °C/ 122°F.

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
butane 01-2119474691-32	106-97-8 203-448-7	2.5% <c<10%< td=""><td>Flam. Gas 1; H220 Press. Gas - Liquefied gas;</td><td>(1)(2)(10)</td><td>Propellant</td></c<10%<>	Flam. Gas 1; H220 Press. Gas - Liquefied gas;	(1)(2)(10)	Propellant
propane 01-2119486944-21	74-98-6 200-827-9	2.5% <c<10%< td=""><td>Flam. Gas 1; H220 Press. Gas - Liquefied gas;</td><td>(1)(2)(10)</td><td>Propellant</td></c<10%<>	Flam. Gas 1; H220 Press. Gas - Liquefied gas;	(1)(2)(10)	Propellant
isotridecanol, ethoxylated (>1<2,5 mol EO) 01-2119976362-32	69011-36-5 500-241-6	2.5% <c<10%< td=""><td>Aquatic Chronic 3; H412</td><td>(1)(10)</td><td>Constituent</td></c<10%<>	Aquatic Chronic 3; H412	(1)(10)	Constituent
ammonia	1336-21-6 215-647-6	1% <c<2.5 %<="" td=""><td>Skin Corr. 1B; H314 Aquatic Acute 1; H400</td><td>(1)(2)(8)(10)</td><td>Constituent</td></c<2.5>	Skin Corr. 1B; H314 Aquatic Acute 1; H400	(1)(2)(8)(10)	Constituent
bronopol 01-2119980938-15	52-51-7 200-143-0	0.025% ≤C<0.1 %	Acute Tox. 4; H312 Acute Tox. 4; H302 Eye Dam. 1; H318 Skin Irrit. 2; H315 STOT SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	(1)(9)	Constituent

- (1) For H-statements in full: see heading 16
- (2) Substance with a Community workplace exposure limit
- (8) Specific concentration limits, see heading 16
- (9) M-factor, see heading 16
- (10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

If you feel unwell, seek medical advice.

After inhalation:

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

After skin contact:

Wash immediately with lots of water. Do not apply (chemical) neutralizing agents without medical advice. Take victim to a doctor if irritation persists.

After eve contact:

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

No effects known.

After skin contact:

Tingling/irritation 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.

Publication date: 2018-08-08

Revision number: 6000 Product number: 60927 2 / 14

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

Upon combustion: formation of CO, CO2 and small quantities of nitrous vapours. 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. Head/neck protection. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment.

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Protective goggles. Head/neck protection. Protective clothing.

Suitable protective clothing

See heading 8.2

6.2. Environmental precautions

Dam up the liquid spill.

6.3. Methods and material for containment and cleaning up

Contaminated surfaces: clean (treat) with water. Carefully collect the spill/leftovers. 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. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. 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. Keep out of direct sunlight. Store in a dry area. Ventilation at floor level. Fireproof storeroom. Meet the legal requirements.

7.2.2 Keep away from:

Heat sources, ignition sources.

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

Revision number: 0000

8.1.1 Occupational exposure

a) Occupational exposure limit values

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

Publication date: 2018-08-08

3 / 14

Product number: 60927

Ammonia, anhydrous	Time-weighted average exposure limit 8 h (Indicative occupational	20 ppm
	exposure limit value)	_
	Time-weighted average exposure limit 8 h (Indicative occupational	14 mg/m³
	exposure limit value)	
	Short time value (Indicative occupational exposure limit value)	50 ppm
	Short time value (Indicative occupational exposure limit value)	36 mg/m³
Belgium		
Ammoniac	Time-weighted average exposure limit 8 h	20 ppm
Annoniae	Time-weighted average exposure limit 8 h	14 mg/m ³
	Short time value	50 ppm
	Short time value	36 mg/m ³
Hydrocarbures aliphatiques sous forme gazeuse : (Alcanes C1-	Time-weighted average exposure limit 8 h	1000 ppm
C4)	Time weighted average exposure mine on	Tooo ppiii
The Netherlands		
Ammoniak	Time weighted average expecure limit 9 h (Public accumational expecure	20 nnm
Ammoniak	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	
	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	,
	Short time value (Public occupational exposure limit value)	51 ppm
	Short time value (Public occupational exposure limit value)	36 mg/m ³
France		
Ammoniac anhydre	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	10 ppm
	,	7 mg/m³
	Short time value (VRC: Valeur réglementaire contraignante)	20 ppm
	Short time value (VRC: Valeur réglementaire contraignante)	14 mg/m³
n-Butane	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	800 ppm
	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	1900 mg/m ³
Cormony		
Germany Ammoniak	Time weighted average expecure limit 9 h (TDCS 000)	20 nnm
Ammoniak	Time-weighted average exposure limit 8 h (TRGS 900)	20 ppm 14 mg/m ³
Butan	Time-weighted average exposure limit 8 h (TRGS 900) Time-weighted average exposure limit 8 h (TRGS 900)	1000 ppm
Dutan	Time-weighted average exposure limit 8 h (TRGS 900)	2400 mg/m ³
Propan	Time-weighted average exposure limit 8 h (TRGS 900)	1000 ppm
. Topan	Time-weighted average exposure limit 8 h (TRGS 900)	1800 mg/m ³
	Time tree-brice are rage exposure milit on (11100 300)	1-500 1116/111
UK	1	·
Ammonia, anhydrous	(EH40/2005))	25 ppm
	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	18 mg/m³
	Short time value (Workplace exposure limit (EH40/2005))	35 ppm
	Short time value (Workplace exposure limit (EH40/2005))	25 mg/m ³
Butane	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	600 ppm
	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	1450 mg/m ³
	Short time value (Workplace exposure limit (EH40/2005))	750 ppm
	Short time value (Workplace exposure limit (EH40/2005))	1810 mg/m ³
USA (TLV-ACGIH)		
Ammonia	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	25 ppm
	Short time value (TLV - Adopted Value)	35 ppm
	in the same transfer the same	1 PP'''

b) National biological limit values

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

8.1.2 Sampling methods

z sampling methods				
Product name	Test	Number		
Ammonia (organic and inorganic gases by Extractive FTIR)	NIOSH	3800		
Ammonia	NIOSH	6015		
Ammonia	NIOSH	6015REV		
Ammonia	NIOSH	6016		

Publication date: 2018-08-08

Revision number: 0000 Product number: 60927 4 / 14

Product name	Test	Number
Ammonia	NON	41
Ammonia	OSHA	ID188

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

isotridecanol, ethoxylated (>1<2,5 mol EO)

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	294 mg/m³	
	Long-term systemic effects dermal	2080 mg/kg bw/day	

ammonia

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	47.6 mg/m ³	Test data of the pure substance
	Acute systemic effects inhalation	47.6 mg/m ³	Test data of the pure substance
	Long-term local effects inhalation	14 mg/m³	Test data of the pure substance
	Acute local effects inhalation	36 mg/m³	Test data of the pure substance
	Long-term systemic effects dermal	6.8 mg/kg bw/day	Test data of the pure substance
	Acute systemic effects dermal	6.8 mg/kg bw/day	Test data of the pure substance

DNEL/DMEL - General population

isotridecanol, ethoxylated (>1<2,5 mol EO)

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	87 mg/m³	
	Long-term systemic effects dermal	1250 mg/kg bw/day	
	Long-term systemic effects oral	25 mg/kg bw/day	

ammonia

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	23.8 mg/m ³	Test data of the pure substance
	Acute systemic effects inhalation	23.8 mg/m ³	Test data of the pure substance
	Long-term local effects inhalation	2.8 mg/m ³	Test data of the pure substance
	Acute local effects inhalation	7.2 mg/m ³	Test data of the pure substance
	Long-term systemic effects dermal	68 mg/kg bw/day	Test data of the pure substance
	Acute systemic effects dermal	68 mg/kg bw/day	Test data of the pure substance
	Long-term systemic effects oral	6.8 mg/kg bw/day	Test data of the pure substance
	Acute systemic effects oral	6.8 mg/kg bw/day	Test data of the pure substance

PNEC

isotridecanol, ethoxylated (>1<2,5 mol EO)

Compartments	Value	Remark
Fresh water	0.074 mg/l	
Salt water	0.007 mg/l	
Fresh water (intermittent releases)	0.015 mg/l	
STP	1.4 mg/l	
Fresh water sediment	0.604 mg/kg sediment dw	
Marine water sediment	0.06 mg/kg sediment dw	
Soil	0.1 mg/kg soil dw	

<u>ammonia</u>

Compartments	Value	Remark
Fresh water	0.001 mg/l	Test data of the pure substance
Marine water	0.001 mg/l	Test data of the pure substance
Aqua (intermittent releases)	0.007 mg/l	Test data of the pure substance

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. Take precautions against electrostatic charges. 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 K at conc. in air > exposure limit.

b) Hand protection:

Protective gloves against chemicals (EN374).

	Measured breakthrough time	Thickness	Protection index
nitrile rubber	> 480 minutes	0.5 mm	Class 6

Publication date: 2018-08-08

Revision number: 6000 Product number: 60927 5 / 14

- materials (good resistance)

Nitrile rubber.

c) Eye protection:

Protective goggles.

d) Skin protection:

Protective clothing. Head/neck protection.

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	1.5 - 10.9 vol %
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	No data available
Evaporation rate	No data available
Relative vapour density	No data available
Vapour pressure	No data available
Solubility	Water ; insoluble
Relative density	0.94 ; 20 °C
Decomposition temperature	No data available
Auto-ignition temperature	No data available
Flash point	Not applicable
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
рН	10 ; 20 °C

9.2. Other information

Absolute density 940 kg/m³ ; 20 °C	
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SECTION 10: Stability and reactivity

10.1. Reactivity

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

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. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

Upon combustion: formation of CO, CO2 and small quantities of nitrous vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1.1 Test results

Acute toxicity

TIRE FOAM

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Publication date: 2018-08-08

Revision number: 6000 Product number: 60927 6 / 14

isotridecanol, ethoxylated (>1<2,5 mol EO)

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	OECD 423	> 2000 mg/kg bw		Rat (male/female)	Experimental	
						value	
Dermal	LD50	OECD 402	> 2000 mg/kg bw		Rat (male/female)	Experimental	
						value	
Inhalation (aerosol)	LC50	Equivalent to OECD	> 1.6 mg/l air	4 h	Rat (male/female)	Experimental	(maximum
		403				value	achievable
							concentration)

ammonia

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	1	Equivalent to OECD 401	350 mg/kg bw		l ' '	Experimental value	Aqueous solution
Dermal						Data waiving	
Inhalation	LC50		9850 mg/m³ air	60 minutes	l ' '		Test data of the pure substance

Conclusion

Not classified for acute toxicity

Corrosion/irritation

TIRE FOAM

No (test)data on the mixture available

Classification is based on the relevant ingredients

isotridecanol, ethoxylated (>1<2,5 mol EO)

Route of exposure	Result	Method	Exposure time	Time point		Value determination	Remark
Eye		Equivalent to OECD 405		24; 48; 72 hours	Rabbit	Experimental value	
Skin		Equivalent to OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value	

ammonia

Route of exposure	Result	Method	Exposure time	Time point	 Value determination	Remark
Eye					Data waiving	
	Corrosive; category 1B				Annex VI	

Conclusion

Causes skin irritation.

Causes serious eye irritation.

Not classified as irritating to the respiratory system

Respiratory or skin sensitisation

TIRE FOAM

No (test)data on the mixture available

Judgement is based on the relevant ingredients

isotridecanol, ethoxylated (>1<2,5 mol EO)

Route of exposure	Result	Method	 Observation time point	Species	Value determination	Remark
Skin	0	Equivalent to OECD 406		Guinea pig (male/female)	Experimental value	

ammonia

Route of exposure	Result	Method	 Observation time point	Species	Value determination	Remark
Skin					Data waiving	
Inhalation					Data waiving	

Conclusion

Not classified as sensitizing for skin

Not classified as sensitizing for inhalation

Specific target organ toxicity

TIRE FOAM

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Publication date: 2018-08-08

Revision number: 6000 Product number: 60927 7 / 14

isotridecanol, ethoxylated (>1<2,5 mol EO)

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value
								determination
(* 23)	_	'	≥ 500 mg/kg bw/day		No effect	90 day(s)		Experimental value
Dermal								Data waiving
Inhalation								Data waiving

<u>ammonia</u>

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time		Value determination
Oral (stomach tube)	NOAEL		250 mg/kg bw/day	General	No effect	/ (- /	Rat (male/female)	Read-across
Oral (stomach tube)	LOAEL		750 mg/kg bw/day	General	Overall effects	/ (- /	Rat (male/female)	Read-across
Dermal								Data waiving
Inhalation (gases)	_	Subchronic toxicity test	119 mg/m³ air	General		18 weeks (6h/day, 5 days/week)		Experimental value

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

TIRE FOAM

No (test)data on the mixture available

isotridecanol, ethoxylated (>1<2,5 mol EO)

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic	Equivalent to OECD 473	Chinese hamster ovary (CHO)		Experimental value
activation, negative without				
metabolic activation				
Negative with metabolic	OECD 471	Bacteria (S.typhimurium)		Experimental value
activation, negative without				
metabolic activation				

ammonia

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value
activation, negative without				
metabolic activation				

Mutagenicity (in vivo)

TIRE FOAM

No (test)data on the mixture available

Judgement is based on the relevant ingredients

<u>ammonia</u>

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Equivalent to OECD		Mouse (male)	Bone marrow	Read-across
	474				

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

TIRE FOAM

No (test)data on the mixture available

Judgement is based on the relevant ingredients

<u>ammonia</u>

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	- 0	Value determination
Oral	NOAEL	Equivalent to	256 mg/kg	104 weeks (daily)	Rat (female)	No carcinogenic		Read-across
		OECD 453	bw/day			effect		

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

TIRE FOAM

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Publication date: 2018-08-08

Revision number: 6000 Product number: 60927 8 / 14

isotridecanol, ethoxylated (>1<2,5 mol EO)

	Parameter	Method	Value	Exposure time	Species	Effect	0	Value determination
Developmental toxicity (Dermal)	NOAEL	1 '	≥ 250 mg/kg bw/day		Rat	No effect		Experimental value
Maternal toxicity (Dermal)	NOAEL	1 '	≥ 250 mg/kg bw/day		Rat	No effect	1	Experimental value
Effects on fertility (Dermal)	NOAEL	1 '	≥ 250 mg/kg bw/day	/ (- /	Rat (male/female)	No effect	1	Experimental value

<u>ammonia</u>

	Parameter	Method	Value	Exposure time	Species	Effect	- 0 -	Value determination
Developmental toxicity			100 mg/kg bw/day	23 day(s)	Rabbit	No effect		Read-across
Maternal toxicity	i -	Equivalent to OECD 414	1 mg/kg bw/day	23 day(s)	Rabbit	No effect		Read-across
Effects on fertility	NOAEL (P)		1500 mg/kg bw/day	/ (- /	Rat (male/female)	No effect		Read-across

Conclusion

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

TIRE FOAM

No (test)data on the mixture available

Chronic effects from short and long-term exposure

TIRE FOAM

No effects known.

SECTION 12: Ecological information

12.1. Toxicity

TIRE FOAM

No (test)data on the mixture available

isotridecanol, ethoxylated (>1<2,5 mol EO)

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LL50	EU Method C.1	2.5 mg/l	96 h		Semi-static system		Experimental value; GLP
Acute toxicity crustacea	EC50	EU Method C.2	1.5 mg/l	48 h	Daphnia magna	Static system		Experimental value; GLP
Toxicity algae and other aquatic plants	EL50	EU Method C.3	2.5 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Read-across; GLP
	NOELR	EU Method C.3	1.7 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Read-across; GLP
Long-term toxicity fish	EC20		1.097 mg/l	30 day(s)	Pimephales promelas		Fresh water	QSAR; Lethal
Long-term toxicity aquatic crustacea	EC20		0.74 mg/l	21 day(s)	Daphnia magna		Fresh water	QSAR; Reproduction
<u>mmonia</u>								

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt	Value determination
							water	
Acute toxicity fishes	LC50		0.6 mg/l - 1.1 mg/l			Flow-through system	Fresh water	Experimental value
			IIIg/I		IIIykiss	system		

Conclusion

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

12.2. Persistence and degradability

isotridecanol, ethoxylated (>1<2,5 mol EO)

Biodegradation water

Method	Value	Duration	Value determination
OECD 301B: CO2 Evolution Test	82 %	28 day(s)	Experimental value

Publication date: 2018-08-08

Conclusion

Contains readily biodegradable component(s)

Revision number: 6000 Product number: 60927 9 / 14

The surfactant(s) is/are biodegradable

12.3. Bioaccumulative potential

TIRE FOAM

Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

isotridecanol, ethoxylated (>1<2,5 mol EO)

BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		232.5 l/kg	72 h	Pimephales promelas	Experimental value

Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 117			22 °C	Weight of evidence approach

ammonia

Log Kow

•						
Method	Remark	Value	Temperature	Value determination		
			25 °C	Estimated value		

Conclusion

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

12.4. Mobility in soil

isotridecanol, ethoxylated (>1<2,5 mol EO)

(log) Koc

Parameter	Method	Value	Value determination
log Koc	SRC PCKOCWIN v2.0	2.376 - 2.645	QSAR

Conclusion

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

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

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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)

Groundwater

Groundwater pollutant

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).

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

Recycle/reuse. 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. Should not be landfilled with household waste. Do not discharge into drains or the environment.

13.1.3 Packaging/Container

European Union

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

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

SECTION 14: Transport information

Road (ADR)

14.1. UN number

UN number	1950
ON Hamber	1550

Publication date: 2018-08-08

Revision number: 0000 Product number: 60927 10 / 14

14.2. UN proper shipping name			
la i			
Proper shipping name	Aerosols		
14.3. Transport hazard class(es)			
Hazard identification number			
Class	2		
Classification code	5F		
14.4. Packing group			
Packing group			
Labels	2.1		
14.5. Environmental hazards			
Environmentally hazardous substance mark	no		
14.6. Special precautions for user			
Special provisions	190		
Special provisions	327		
Special provisions	344		
	625		
Special provisions			
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)		
iil (RID)			
14.1. UN number	lasso		
UN number	1950		
14.2. UN proper shipping name			
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			
	2.4		
Labels	2.1		
14.5. Environmental hazards			
Environmentally hazardous substance mark	no		
14.6. Special precautions for user			
Special provisions	190		
Special provisions	327		
Special provisions	344		
Special provisions	625		
Limited quantities	Combination packagings: not more than 1 liter per inner packaging f		
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)		
	iliquius. A package shall not weigh more than 50 kg. (gross mass)		
land waterways (ADN)			
dilu waterways (ADN)			
• • •			
14.1. UN number	1050		
14.1. UN number UN number	1950		
14.1. UN number UN number 14.2. UN proper shipping name			
14.1. UN number UN number 14.2. UN proper shipping name Proper shipping name	1950 Aerosols		
14.1. UN number UN number 14.2. UN proper shipping name Proper shipping name 14.3. Transport hazard class(es)	Aerosols		
14.1. UN number UN number 14.2. UN proper shipping name Proper shipping name 14.3. Transport hazard class(es) Class	Aerosols 2		
14.1. UN number UN number 14.2. UN proper shipping name Proper shipping name 14.3. Transport hazard class(es)	Aerosols		
14.1. UN number UN number 14.2. UN proper shipping name Proper shipping name 14.3. Transport hazard class(es) Class	Aerosols 2		
14.1. UN number UN number 14.2. UN proper shipping name Proper shipping name 14.3. Transport hazard class(es) Class Classification code 14.4. Packing group	Aerosols 2		
14.1. UN number UN number 14.2. UN proper shipping name Proper shipping name 14.3. Transport hazard class(es) Class Classification code 14.4. Packing group Packing group	Aerosols 2 5F		
14.1. UN number UN number 14.2. UN proper shipping name Proper shipping name 14.3. Transport hazard class(es) Class Classification code 14.4. Packing group Packing group Labels	Aerosols 2		
14.1. UN number UN number 14.2. UN proper shipping name Proper shipping name 14.3. Transport hazard class(es) Class Classification code 14.4. Packing group Packing group Labels 14.5. Environmental hazards	Aerosols 2 5F 2.1		
14.1. UN number UN number 14.2. UN proper shipping name Proper shipping name 14.3. Transport hazard class(es) Class Classification code 14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark	Aerosols 2 5F		
14.1. UN number UN number 14.2. UN proper shipping name Proper shipping name 14.3. Transport hazard class(es) Class Classification code 14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user	Aerosols 2 5F 2.1		
14.1. UN number UN number 14.2. UN proper shipping name Proper shipping name 14.3. Transport hazard class(es) Class Classification code 14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions	Aerosols		
14.1. UN number UN number 14.2. UN proper shipping name Proper shipping name 14.3. Transport hazard class(es) Class Classification code 14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user	Aerosols 2 5F 2.1 no 190 327		
14.1. UN number UN number 14.2. UN proper shipping name Proper shipping name 14.3. Transport hazard class(es) Class Classification code 14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions	Aerosols		
14.1. UN number UN number 14.2. UN proper shipping name Proper shipping name 14.3. Transport hazard class(es) Class Classification code 14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions Special provisions	Aerosols 2 5F 2.1 no 190 327		
14.1. UN number UN number 14.2. UN proper shipping name Proper shipping name 14.3. Transport hazard class(es) Class Classification code 14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions Special provisions Special provisions Special provisions	Aerosols 2 5F 2.1 no 190 327 344		
14.1. UN number UN number 14.2. UN proper shipping name Proper shipping name 14.3. Transport hazard class(es) Class Classification code 14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions Special provisions Special provisions Special provisions Special provisions	Aerosols 2 5F 2.1 no 190 327 344 625 Combination packagings: not more than 1 liter per inner packaging for		
14.1. UN number UN number 14.2. UN proper shipping name Proper shipping name 14.3. Transport hazard class(es) Class Classification code 14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions Special provisions Special provisions Special provisions Limited quantities	Aerosols 2 5F 2.1 no 190 327 344 625		
14.1. UN number UN number 14.2. UN proper shipping name Proper shipping name 14.3. Transport hazard class(es) Class Classification code 14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions Special provisions Special provisions Special provisions Special provisions	Aerosols 2 5F 2.1 no 190 327 344 625 Combination packagings: not more than 1 liter per inner packaging for		
14.1. UN number UN number 14.2. UN proper shipping name Proper shipping name 14.3. Transport hazard class(es) Class Classification code 14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions Special provisions Special provisions Special provisions Limited quantities	Aerosols 2 5F 2.1 no 190 327 344 625 Combination packagings: not more than 1 liter per inner packaging for		
14.1. UN number UN number 14.2. UN proper shipping name Proper shipping name 14.3. Transport hazard class(es) Class Classification code 14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions Special provisions Special provisions Special provisions Special provisions Limited quantities a (IMDG/IMSBC) 14.1. UN number	Aerosols 2 5F 2.1 no 190 327 344 625 Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)		
14.1. UN number UN number 14.2. UN proper shipping name Proper shipping name 14.3. Transport hazard class(es) Class Classification code 14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions Special provisions Special provisions Special provisions Special provisions Special provisions Special provisions Special provisions A (IMDG/IMSBC) 14.1. UN number UN number	Aerosols 2 5F 2.1 no 190 327 344 625 Combination packagings: not more than 1 liter per inner packaging for		
14.1. UN number UN number 14.2. UN proper shipping name Proper shipping name 14.3. Transport hazard class(es) Class Classification code 14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions Special provisions Special provisions Special provisions Special provisions Limited quantities a (IMDG/IMSBC) 14.1. UN number UN number UN number	Aerosols 2 5F 2.1 no 190 327 344 625 Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)		
14.1. UN number UN number 14.2. UN proper shipping name Proper shipping name 14.3. Transport hazard class(es) Class Classification code 14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions Special provisions Special provisions Special provisions Special provisions Special provisions I imited quantities a (IMDG/IMSBC) 14.1. UN number UN number Proper shipping name	Aerosols 2 5F 2.1 no 190 327 344 625 Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)		
14.1. UN number UN number 14.2. UN proper shipping name Proper shipping name 14.3. Transport hazard class(es) Class Classification code 14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions Special provisions Special provisions Special provisions Special provisions Limited quantities a (IMDG/IMSBC) 14.1. UN number UN number UN number	Aerosols 2 5F 2.1 no 190 327 344 625 Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)		

Publication date: 2018-08-08

Revision number: 0000 Product number: 60927 11 / 14

14.4. Packing group			
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 t			
Annex II of MARPOL 73/78	Not applicable		
r (ICAO-TI/IATA-DGR) 14.1. UN number			
UN number	1950		
14.2. UN proper shipping name			
Proper shipping name	Aerosols, flammable		
14.3. Transport hazard class(es)			
Class	2.1		
14.4. Packing group	<u> </u>		
Packing group			
Labels	2.1		
14.5. Environmental hazards			

SECTION 15: Regulatory information

Environmentally hazardous substance mark

Limited quantities: maximum net quantity per packaging

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

European legislation:

Special provisions

Special provisions

VOC content Directive 2010/75/EU

14.6. Special precautions for user Special provisions

VOC content	Remark
10.14 %	
95.9 g/l	

no

A145

A167 A802

30 kg G

Ingredients according to Regulation (EC) No 648/2004 and amendments

5-15% aliphatic hydrocarbons, <5% non-ionic surfactants, bronopol

European drinking water standards (Directive 98/83/EC)

<u>ammonia</u>

Parameter	Parametric value	Note	Reference
Ammonium	0,5 mg/l		Listed in Annex I, Part C, of Directive 98/83/EC on the quality of
			water intended for human consumption.

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.

	Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
· isotridecanol, ethoxylated (>1<2,5 mol EO) · ammonia		1. Shall not be used in: — ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, — tricks and jokes, — games for one or more participants, or any article intended to be used as such, even with ornamental aspects, 2. Articles not complying with paragraph 1 shall not be placed on the market. 3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they: — can be used as fuel in decorative oil lamps for supply to the general public, and, — present an aspiration hazard and are labelled with R65 or H304, 4. Decorative oil lamps for supply to the general public shall not be placed on the market

Publication date: 2018-08-08

Revision number: 6000 Product number: 60927 12 / 14

development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1.

unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted 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 R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach 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 R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage";

c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010. 6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.

7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.'

National legislation Belgium

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No data available

National legislation The Netherlands

TIRE FOAM

Waterbezwaarlijkheid Z (2)

National legislation France

TIRE FOAM

No data available

National legislation Germany

TIRE FOAM				
WGK 2; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdend				
	Stoffe (VwVwS) of 27 July 2005 (Anhang 4) and Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen			
	(AwSV) of 18 April 2017			
isotridecanol, ethoxylated (>1<2,5 mol EO)				
TA-Luft	5.2.5;1			
<u>ammonia</u>				

Grenzwertes nicht befürchtet zu werden

Ammoniak; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen

National legislation United Kingdom

TRGS900 - Risiko der

Fruchtschädigung

TIRE FOAM

No data available

Other relevant data

TIRE FOAM

No data available

15.2. Chemical safety assessment

No chemical safety assessment has been conducted.

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.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Publication date: 2018-08-08

Revision number: 0000 Product number: 60927 13 / 14

(*) 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

M-factor

Revision number: 0000

ammonia	1	Acute	BIG
bronopol	1	Acute	BIG

Specific concentration limits CLP

ammonia	C ≥ 5 %	STOT SE 3; H335	CLP Annex VI (ATP 0)
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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 is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. 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.

14 / 14

Publication date: 2018-08-08

Product number: 60927