# SAFETY DATA SHEET



Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2020/878

# **FOAM CLEANER**

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

#### 1.1. Product identifier

Product name : FOAM CLEANER
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

**♣** +32 14 85 97 38 info@novatech.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

Classified as daligerous according to the criteria of negalation (EC) No 1272/2000		
Class	Category	Hazard 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: acetone.

rignition

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)

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http://www.big.be

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sources. No smoking.

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.

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

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	lRemark	M-factors and ATE
acetone 01-2119471330-49		<c<100%< td=""><td>Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066</td><td>(1)(2)(10)</td><td>Constituent</td><td></td></c<100%<>	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066	(1)(2)(10)	Constituent	
propane 01-2119486944-21		<c<20%< td=""><td>Flam. Gas 1A; H220 Press. Gas - Liquefied gas; H280</td><td>(1)(2)(10)</td><td>Propellant</td><td></td></c<20%<>	Flam. Gas 1A; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant	
butane 01-2119474691-32		<c<10%< td=""><td>Flam. Gas 1A; H220 Press. Gas - Liquefied gas; H280</td><td>(1)(2)(10)(21)</td><td>Propellant</td><td></td></c<10%<>	Flam. Gas 1A; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)(21)	Propellant	

- (1) For H- and EUH-statements in full: see section 16
- (2) Substance with a Community workplace exposure limit
- (10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006
- (21) 1,3-butadiene < 0.1%

# SECTION 4: First aid measures

#### 4.1. Description of first aid measures

### General:

Observe (own) safety. If possible, approach victim and check vital functions. In case of injury and/or intoxication, call the European emergency number 112. Treat symptoms starting with most life-threatening injuries and disorders. Keep victim under observation, possibility of delayed symptoms.

### After inhalation:

Remove victim into fresh air. In case of respiratory problems, consult a doctor/medical service.

#### After skin contact:

If possible, wipe up/dry remove chemical. Then rinse/shower immediately with (lukewarm) water. If irritation persists, consult a doctor/medical service.

#### After eye contact:

Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult a doctor/medical service.

#### After ingestion:

Rinse mouth with water. If you feel unwell, consult a doctor/medical service. Do not wait for symptoms to occur to consult Poison Center.

#### 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. 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

#### 5.1. Extinguishing media

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#### 5.1.1 Suitable extinguishing media:

Small fire: Water, Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting CO2 extinguisher.

Major fire: Quantities of water.

#### 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 (EN 374). Protective goggles (EN 166). Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: self-contained breathing apparatus (EN 136 + EN 137).

# 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. Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighbourhood close doors and windows.

#### 6.1.1 Protective equipment for non-emergency personnel

See section 8.2

#### 6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Protective goggles (EN 166). Protective clothing (EN 14605 or EN 13034).

Suitable protective clothing

See section 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 inert absorbent material. 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 handling.

#### 6.4. Reference to other sections

See section 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. Meet the legal requirements. Keep container in a well-ventilated place. Fireproof storeroom. Keep out of direct sunlight. Max. storage time: 1 year(s).

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

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Acétone	Time-weighted average exposure limit 8 h	246 ppm
	Time-weighted average exposure limit 8 h	594 mg/m³
	Short time value	492 ppm
	Short time value	1187 mg/m³
Butane, tous isomères: n-butane	Short time value	980 ppm
	Short time value	2370 mg/m³
Hydrocarbures aliphatiques sous forme gazeuse: (Alcanes C1-C3)	Time-weighted average exposure limit 8 h	1000 ppm

# The Netherlands

Aceton	Time-weighted average exposure limit 8 h (Public occupational exposure 500 ppm limit value)
	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)
	Short time value (Public occupational exposure limit value) 1000 ppm
	Short time value (Public occupational exposure limit value) 2420 mg/m <sup>3</sup>

#### France

Acétone	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	500 ppm
	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	1210 mg/m³
	Short time value (VRC: Valeur réglementaire contraignante)	1000 ppm
	Short time value (VRC: Valeur réglementaire contraignante)	2420 mg/m <sup>3</sup>
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 <sup>3</sup>

#### Germany

Aceton	Time-weighted average exposure limit 8 h (TRGS 900)	500 ppm <b>(1)</b>
	Time-weighted average exposure limit 8 h (TRGS 900)	1200 mg/m³ <b>(1)</b>
Butan	Time-weighted average exposure limit 8 h (TRGS 900)	1000 ppm <b>(2)</b>
	Time-weighted average exposure limit 8 h (TRGS 900)	2400 mg/m³ (2)
Propan	Time-weighted average exposure limit 8 h (TRGS 900)	1000 ppm <b>(2)</b>
	Time-weighted average exposure limit 8 h (TRGS 900)	1800 mg/m³ <b>(2)</b>

(1) UF: 2 (I) (2) UF: 4 (II)

## Austria

Austria		
Aceton	Tagesmittelwert (MAK)	500 ppm
	Tagesmittelwert (MAK)	1200 mg/m³
	Kurzzeitwert 15(Miw) 4x (MAK)	2000 ppm
	Kurzzeitwert 15(Miw) 4x (MAK)	4800 mg/m³
Butan (beide Isomeren): n-Butan (R 600) Isobutan (R 600a)	Tagesmittelwert (MAK)	800 ppm
	Tagesmittelwert (MAK)	1900 mg/m³
	Kurzzeitwert 60(Mow) 3x (MAK)	1600 ppm
	Kurzzeitwert 60(Mow) 3x (MAK)	3800 mg/m³
Propan (R 290)	Tagesmittelwert (MAK)	1000 ppm
	Tagesmittelwert (MAK)	1800 mg/m³
	Kurzzeitwert 60(Mow) 3x (MAK)	2000 ppm
	Kurzzeitwert 60(Mow) 3x (MAK)	3600 mg/m³

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## UK

Acetone	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	500 ppm
	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	1210 mg/m <sup>3</sup>
	Short time value (Workplace exposure limit (EH40/2005))	1500 ppm
	Short time value (Workplace exposure limit (EH40/2005))	3620 mg/m <sup>3</sup>
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 <sup>3</sup>
	Short time value (Workplace exposure limit (EH40/2005))	750 ppm
	Short time value (Workplace exposure limit (EH40/2005))	1810 mg/m³

## **USA (TLV-ACGIH)**

Acetone	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	250 ppm
	Short time value (TLV - Adopted Value)	500 ppm
Butane, isomers	Short time value (TLV - Adopted Value)	1000 ppm
	Explosion hazard	
Propane	See Appendix F: Minimal Oxygen Content; Simple asphyxiant, Explosion hazard	

#### b) National biological limit values

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

#### Germany

Aceton (Aceton) Urin: expositionsende,	nichtende 80 mg/l
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## USA (BEI-ACGIH)

Acetone (Acetone)	Urine: end of shift	25 mg/L	Nonspecific
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8.1.2 Sampling methods

Product name	Test	Number
Acetone (ketones 1)	NIOSH	1300
Acetone (ketones I)	NIOSH	2555
Acetone (organic and inorganic gases by Extractive FTIR)	NIOSH	3800
Acetone (Volatile Organic compounds)	NIOSH	2549
Acetone	NIOSH	2027
Acetone	NIOSH	3900
Acetone	NIOSH	8319
Acetone	OSHA	69
n-Butane	OSHA	2010
Propane	OSHA	2077

# $\bf 8.1.3$ 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 Threshold values

# DNEL/DMEL - Workers

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/m³	
	Long-term systemic effects dermal	62 mg/kg bw/day	
	Long-term systemic effects oral	62 mg/kg bw/day	

# PNEC acetone

Compartments	Value	Remark
Fresh water	10.6 mg/l	
Marine water	1.06 mg/l	
Fresh water (intermittent releases)	21 mg/l	
STP	100 mg/l	
Fresh water sediment	30.4 mg/kg sediment dw	
Marine water sediment	3.04 mg/kg sediment dw	
Soil	29.5 mg/kg soil dw	

#### 8.1.5 Control banding

If applicable and available it will be listed below.

## 8.2. Exposure controls

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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 (EN 374).

#### c) Eye protection:

Protective goggles (EN 166).

#### d) Skin protection:

Protective clothing (EN 14605 or EN 13034).

#### 8.2.3 Environmental exposure controls:

See sections 6.2, 6.3 and 13

# SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Physical form	Aerosol
Colour	Colourless
Odour	No data available on odour
Odour threshold	No data available in the literature
Melting point	Not applicable (aerosol)
Boiling point	No data available in the literature
Flammability	Extremely flammable aerosol.
Explosion limits	No data available in the literature
Flash point	Not applicable (aerosol)
Auto-ignition temperature	Not applicable (aerosol)
Decomposition temperature	No data available in the literature
рН	No data available in the literature
Kinematic viscosity	Not applicable (aerosol)
Solubility	No data available in the literature
Log Kow	Not applicable (mixture)
Vapour pressure	3000 hPa ; 50 °C ; Propellant
Absolute density	716 kg/m³
Relative density	0.72
Relative vapour density	Not applicable (aerosol)
Particle size	Not applicable (aerosol)

#### 9.2. Other information

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.

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# SECTION 11: Toxicological information

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

#### 11 1 1 Test results

#### Acute toxicity

#### FOAM CLEANER

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	Value	Remark
						determination	
Oral	LD50		5800 mg/kg		Rat (female)	Experimental value	
Dermal	LD50		> 15800 mg/kg bw	24 h	Rabbit (male)	Experimental value	

propane

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral						Data waiving	
Dermal						Data waiving	
Inhalation (gases)	LC50		> 800000 ppm		Rat (male / female)	Experimental value	

As the substance is a gas, inhalation is the most likely route of exposure

<u>butane</u>

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral						Data waiving	
Dermal						Data waiving	
Inhalation (gases)	LC50		> 800000 ppm	15 minutes	Rat (male /	Experimental value	
					female)	of similar product	

As the substance is a gas, inhalation is the most likely route of exposure

#### Conclusion

Not classified for acute toxicity

#### Corrosion/irritation

#### FOAM CLEANER

No (test)data on the mixture available

Classification is based on the relevant ingredients

<u>cetone</u>

Route of exposure	Result	Method	Exposure time	Time point	Species	Value	Remark
						determination	
Eye	Irritating	OECD 405	24 h	24; 72 hours	Rabbit	Experimental	Single treatment
						value	with rinsing
Skin	Not irritating		3 day(s)	24; 48; 72 hrs; 4	Guinea pig	Experimental	
				days		value	
Inhalation	Slightly irritating	Human	20 minutes		Human	Literature study	
		observation study					
opane	•	•	•	•	•	•	

Route of exposure	Result	Method	Exposure time	Time point	Species	Value	Remark
						determination	
Eye						Data waiving	
Skin						Data waiving	

The liquid form can cause frostbites, typical for all liquefied gases

<u>butane</u>

Route of exposure	Result	Method	Exposure time	Time point	Species	Value	Remark
						determination	
Eye						Data waiving	
Skin						Data waiving	

The liquid form can cause frostbites, typical for all liquefied gases

#### Conclusion

Causes serious eye irritation.

Not classified as irritating to the skin

Not classified as irritating to the respiratory system

#### Respiratory or skin sensitisation

#### FOAM CLEANER

No (test)data on the mixture available

Judgement is based on the relevant ingredients

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<u>acetone</u>

	Route of exposure	Result	Method	•	Observation time point	Species	Value determination	Remark
	Skin		Guinea pig maximisation test			Guinea pig (female)	Experimental value	
	Skin	Not sensitizing	Human observation			Human	Experimental value	
р	<u>ropane</u>						•	•

 Route of exposure
 Result
 Method
 Exposure time point
 Observation time point
 Species
 Value determination
 Remark

 Skin
 Data waiving

 Inhalation
 Data waiving

<u>butane</u>

Route of exposure	Result	Method	Exposure time	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

# FOAM CLEANER

No (test)data on the mixture available

Classification is based on the relevant ingredients  $\dot{\mbox{\sc c}}$ 

<u>acetone</u>

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (drinking water)	NOAEL	Equivalent to OECD 408	4.86 mg/kg bw/day - 5.95 mg/kg bw/day		No effect	13 week(s)	Mouse (male / female)	Experimental value
Oral (drinking water)	LOAEL	Equivalent to OECD 408	11.3 mg/kg bw/day	Liver	Histopatholog y		Mouse (female)	Experimental value
Dermal								Data waiving
Inhalation (vapours)	NOAEC	Subchronic toxicity test	19000 ppm			8 weeks (5 days / week)	Rat (male)	Experimental value
Inhalation (vapours)	Dose level	Human observation study		Central nervous system	Neurotoxic effects	2 day(s)	Human	Epidemiological study

propane

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time		Value determination
Oral								Data waiving
Dermal			/ 3					Data waiving
Inhalation (gases)	NOAEC	OECD 422	7214 mg/m <sup>3</sup> air			> 4 weeks (6h / day, 7 days / week)	` '	Experimental value
Inhalation (gases)	NOAEC	OECD 422	4000 ppm		No effect	> 4 weeks (6h / day, 7 days / week)	` '	Experimental value

As the substance is a gas, inhalation is the most likely route of exposure

butane

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time		Value determination
Oral								Data waiving
Dermal								Data waiving
Inhalation (gases)	NOAEC systemic effects	OECD 422	21.39 mg/l air		No adverse systemic effects	> 4 weeks (6h / day, 7 days / week)	, ,	Experimental value

As the substance is a gas, inhalation is the most likely route of exposure

#### Conclusion

May cause drowsiness or dizziness. Not classified for subchronic toxicity

# Mutagenicity (in vitro)

# FOAM CLEANER

No (test)data on the mixture available Judgement is based on the relevant ingredients

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Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value	
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 473	Chinese hamster ovary (CHO)	No effect	Experimental value	

#### propane

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

# butane

Result	Method	Test substrate	Effect	Value determination	Remark
1 .0	OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value	
activation, negative without metabolic					
activation					
Negative with metabolic activation, negative without metabolic activation	OECD 473	Human lymphocytes	No effect	Experimental value	

#### Mutagenicity (in vivo)

#### FOAM CLEANER

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 (Oral (drinking water))	Micronucleus test	13 week(s)	Mouse (male / female)		Literature study				
pro	<u>oropane</u>									

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative (Inhalation (gases))	OECD 474	13 weeks (6h / day, 5	Rat (male / female)		Read-across
		days / week)			

# <u>butane</u>

Result	Method	Exposure time	Test substrate	Organ	Value determination
0 ' ' ''	Drosophila SLRL test (gene mutation)	3 day(s)	Drosophila melanogaster		Experimental value
	,				

#### Conclusion

Not classified for mutagenic or genotoxic toxicity

## Carcinogenicity

## FOAM CLEANER

No (test)data on the mixture available

Judgement is based on the relevant ingredients

# acetone

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Dermal	NOEL	Carcinogenic toxicity study	79 mg		Mouse (female)	No carcinogenic effect		Literature study

## propane

Route of	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
exposure								
Unknown								Data waiving

## <u>butane</u>

Route of	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
exposure								
Unknown								Data waiving

#### Conclusion

Not classified for carcinogenicity

#### Reproductive toxicity

# FOAM CLEANER

No (test)data on the mixture available

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Judgement is based on the relevant ingredients acetone

	Parameter	Method	Value	Exposure time	Species	Effect	- 0-	Value determination
Developmental toxicity (Inhalation (aerosol))	NOAEC	Equivalent to OECD 414	2200 ppm	14 days (gestation, daily)	Rat	No effect	Foetus	Experimental value
	LOAEC	Equivalent to OECD 414	11000 mg/kg bw/day	14 days (gestation, daily)	Rat	Fetotoxicity	Foetus	Experimental value
Maternal toxicity (Inhalation (aerosol))	NOAEC	Equivalent to OECD 414	2200 ppm	14 days (gestation, daily)	Rat	No effect		Experimental value
	LOAEC	Equivalent to OECD 414	11000 ppm	14 days (gestation, daily)	Rat	Maternal toxicity		Experimental value
Effects on fertility (Oral (drinking water))	NOAEL		900 mg/kg bw/day	13 week(s)	Rat (male)	No effect		Experimental value
	LOAEL		3400 mg/kg bw/day	13 week(s)	Rat (male)	Adverse effects on fertility	Male reproductive organ	Experimental value

propane

	Parameter	Method	Value	Exposure time	Species	Effect	0	Value determination
Developmental toxicity (Inhalation (gases))	NOAEC	OECD 422	12000 ppm	6 weeks (6h / day, 7 days / week)	Rat	No effect		Experimental value
	NOAEC	OECD 422	21641 mg/m³ air	6 weeks (6h / day, 7 days / week)	Rat	No effect		Experimental value
Maternal toxicity (Inhalation (gases))	NOAEC	OECD 422	12000 ppm	6 weeks (6h / day, 7 days / week)	Rat	No effect		Experimental value
	NOAEC	OECD 422	21641 mg/m³ air	6 weeks (6h / day, 7 days / week)	Rat	No effect		Experimental value
Effects on fertility (Inhalation (gases))	NOAEC	OECD 422	12000 ppm	6 weeks (6h / day, 7 days / week)	Rat (male / female)	No effect		Experimental value

butane

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity (Inhalation (gases))	NOAEC	OECD 422	21.39 mg/l air	> 4 weeks (6h / day, 7 days / week)	Rat	No effect		Experimental value
Maternal toxicity (Inhalation (gases))	NOAEC	OECD 422	21.39 mg/l air	> 4 weeks (6h / day, 7 days / week)	Rat	No effect		Experimental value
Effects on fertility (Inhalation (gases))	NOAEC	OECD 422	21.39 mg/l air	> 4 weeks (6h / day, 7 days / week)	Rat (male / female)	No effect		Experimental value

## Conclusion

Not classified for reprotoxic or developmental toxicity

## Aspiration hazard

Judgement is based on the relevant ingredients Not classified for aspiration toxicity

## **Toxicity other effects**

# FOAM CLEANER

<u>acetone</u>

Route of	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value
exposure								determination
Skin				Skin	Skin dryness or			Literature study
					cracking			

### Conclusion

Repeated exposure may cause skin dryness or cracking.

## Chronic effects from short and long-term exposure

## FOAM CLEANER

Red skin. Skin rash/inflammation. Dry/sore throat. Headache. Nausea. Feeling of weakness. Loss of weight. Possible inflammation of the respiratory tract.

# 11.2. Information on other hazards

No evidence of endocrine disrupting properties

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# SECTION 12: Ecological information

# 12.1. Toxicity

#### FOAM CLEANER

No (test)data on the mixture available

Judgement of the mixture is based on the relevant ingredients

acetone

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	Equivalent to OECD 203	6210 mg/l - 8120 mg/l	96 h	Pimephales promelas	Flow- through system	Fresh water	Experimental value; Measured concentration
Acute toxicity crustacea	LC50		8800 mg/l	48 h	Daphnia pulex	Static system	Fresh water	Experimental value; Nominal concentration
Toxicity algae and other aquatic plants	NOEC		530 mg/l		Algae		Fresh water	
Long-term toxicity aquatic crustacea	NOEC	Equivalent to OECD 211	2212 mg/l	28 day(s)	Daphnia magna	Flow- through system	Fresh water	Experimental value
Toxicity aquatic micro- organisms	EC50	Equivalent to OECD 209	61.15 g/l	30 minutes	Activated sludge	Static system	Fresh water	Experimental value
	EC50		1700 mg/l		Pseudomonas putida			Literature study; Inhibition

propane

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		50 mg/l	96 h	Pisces		Fresh water	QSAR; Estimated value
Acute toxicity crustacea	LC50	ECOSAR v1.00	27 mg/l	48 h	Daphnia sp.		Fresh water	QSAR
Toxicity algae and other aquatic plants	EC50	ECOSAR v1.00	12 mg/l	96 h	Algae		Fresh water	QSAR
Toxicity aquatic micro- organisms	EC50		10 mg/l - 100 mg/l		Activated sludge			Estimated value

butane

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	ECOSAR	24 mg/l	96 h	Pisces		Fresh water	QSAR
Acute toxicity crustacea	LC50	ECOSAR v1.00	14 mg/l	48 h	Daphnia sp.		Fresh water	QSAR
Toxicity algae and other aquatic plants	EC50	ECOSAR v1.00	7.7 mg/l	96 h	Algae		Fresh water	QSAR

#### Conclusion

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

Value

100 %

# 12.2. Persistence and degradability

<u>acetone</u>

	В	io	de	gra	ada	tion	water
--	---	----	----	-----	-----	------	-------

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

Phototransformation air (DT50 air)

Method	Value	Conc. OH-radicals	Value determination
AOPWIN v1.92	52.431 day(s)	1.5E6 /cm <sup>3</sup>	Calculated value

propane

Biodegradation water Method

Phototransformation air (DT50 air)						
Method	Value	Conc. OH-radicals	Value determination			
A O D W/I N 1/1 02	101 h	1 EE6 /cm <sup>3</sup>	Calculated value			

Duration

Value determination

Experimental value

Half-life soil (t1/2 soil)

Method	Primary degradation/mineralisation	Value determination
		Not applicable (gas)

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#### <u>butane</u>

Phototransformation air (DT50 air)

Method	Value	Conc. OH-radicals	Value determination
	1.9 day(s)	5E5 /cm³	Calculated value

Half-life soil (t1/2 soil)

Method	Value	Primary degradation/mineralisation	Value determination
			Not applicable (gas)

#### Conclusion

#### Water

Contains non readily biodegradable component(s)

#### 12.3. Bioaccumulative potential

#### FOAM CLEANER

#### Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

#### acetone

#### **BCF** fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		0.69		Pisces	Literature study

#### Log Kow

Method	Remark	Value	Temperature	Value determination
		-0.23		Test data

#### propane

#### Log Kow

Method	Remark	Value	Temperature	Value determination
			20 °C	Experimental value

#### butane

#### Log Kow

Method	Remark	Value	Temperature	Value determination
			20 °C	Experimental value

#### Conclusion

Does not contain bioaccumulative component(s)

## 12.4. Mobility in soil

### <u>acetone</u>

#### (log) Koc

Parameter	Method	Value	Value determination
log Koc	SRC PCKOCWIN v2.0	0.374 - 0.988	Calculated value

#### Conclusion

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

### 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. Endocrine disrupting properties

No evidence of endocrine disrupting properties

### 12.7. Other adverse effects

#### **FOAM CLEANER**

#### Greenhouse gases

Contains component(s) included in the list of substances which may contribute to the greenhouse effect (IPCC)

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)

#### acetone

#### Groundwater

Groundwater pollutant

#### propane

#### Greenhouse gases

Included in the list of substances which may contribute to the greenhouse effect (IPCC)  $\,$ 

Contains component(s) included in the list of substances which may contribute to the greenhouse effect (IPCC)

## <u>butane</u>

#### Greenhouse gases

Included in the list of substances which may contribute to the greenhouse effect (IPCC)

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# **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

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. Dispose of at authorized waste collection point.

#### 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.	4.1. UN number				
	UN number	1950			
14.	14.2. UN proper shipping name				
	Proper shipping name	aerosols			
14.	3. Transport hazard class(es)				
	Hazard identification number				
	Class	2			
	Classification code	5F			
14.4. Packing group					
	Packing group				
	Labels	2.1			
14.	5. Environmental hazards				
	Environmentally hazardous substance mark	no			
14.	6. Special precautions for user				
	Special provisions	190			
	Special provisions	327			
	Special provisions	344			
	Special provisions	625			
	Limited quantities	Combination packagings: not more than 1 liter per inner packaging for			
		liquids. A package shall not weigh more than 30 kg (gross mass).			

### Rail (RID)

· ·	
14. <u>1</u> . UN number	
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	
Labels	2.1
14. <u>5</u> . Environmental hazards	
Environmentally hazardous substance mark	no
14. <u>6. Special precautions for user</u>	
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).

### Inland waterways (ADN)

14.1	. UN number/ID number		
	UN number/ID number	1950	

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	VICLEAINER
4.2. UN proper shipping name	
Proper shipping name	aerosols
4.3. Transport hazard class(es)	<del>_</del>
Class	2
Classification code	5F
4. <u>4. Packing group</u>	
Packing group	
Labels	2.1
4.5. Environmental hazards	
Environmentally hazardous substance mark	no
4.6. Special precautions for user	
Special provisions	190
Special provisions	327
Special provisions	344
Special provisions	625
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for
Limited quantities	liquids. A package shall not weigh more than 30 kg (gross mass).
(IMDG/IMSBC)	
4. <u>1. UN number</u>	
UN number	1950
4.2. UN proper shipping name	
Proper shipping name	aerosols
4.3. Transport hazard class(es)	
Class	2.1
4.4. Packing group	
Packing group	
Labels	2.1
4.5. Environmental hazards	-
Marine pollutant	-
Environmentally hazardous substance mark	no
4.6. Special precautions for user	
Special previsions	190
Special provisions	277
Special provisions	327
	344
Special provisions	
Special provisions	381
Special provisions	63
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).
4.7. Maritime transport in bulk according to IMO instruments	later to the
Annex II of MARPOL 73/78	Not applicable
(ICAO-TI/IATA-DGR)	
4.1. UN number/ID number	1050
UN number/ID number	1950
4.2. UN proper shipping name	aerosols, flammable
Proper shipping name	acrosors, indifficable
4.3. Transport hazard class(es)	
Class	2.1
4.4. Packing group	
Packing group	
Labels	2.1
4. <u>5. Environmental hazards</u>	
Environmentally hazardous substance mark	no
4.6. Special precautions for user	
Special provisions	A145
Special provisions	A167
	1.000
Special provisions	A802
Special provisions Passenger and cargo transport	JA802

# SECTION 15: Regulatory information

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

## **European legislation:**

**Explosives precursors** 

Due to the presence of one or more components in this mixture, acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

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#### VOC content Directive 2010/75/EU

VOC content	Remark
100 %	
736 g/l	

#### Directive 2012/18/EU (Seveso III)

Threshold values under normal circumstances

		Top tier (tonnes)		For this substance or mixture the summation rule has to be applied for:
P3b FLAMMABLE AEROSOLS	5000 (net)	50000 (net)	None	Flammability

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

≥30% aliphatic hydrocarbons

# REACH Annex XVII - Restriction

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

and use of certain dangerous	substances, mixtures and articles.	
	Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
· acetone	Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1.	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 H304,  4. Decorative oil lamps for supply to the general public shall not be placed on the market 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 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";  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.
- acetone - propane - butane	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to that Regulation or not.	1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:  — metallic glitter intended mainly for decoration, — artificial snow and frost, — "whoopee" cushions, — silly string aerosols, — 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, packaging 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 and indelibly with:  "For professional users only".  3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/ 324/EEC.  4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.
· acetone	Substances falling within one or more of the following points:  (a) substances classified as any of the following in Part 3 of Annex VI to Regulation (EC) No 1272/2008:  — carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, but excluding any such substances classified due to effects only following exposure by inhalation  — reproductive toxicant category 1A, 1B or 2 but excluding any such substances classified	Mixtures for tattooing purposes are subject to the restrictions of Regulation (EU) 2020/2081

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due to effects only following exposure by

- skin sensitiser category 1, 1A or 1B skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2

serious eye damage category 1 or eye

irritant category 2

(b) substances listed in Annex II to Regulation (EC) No 1223/2009 of the European Parliament and of the Council

(c) substances listed in Annex IV to Regulation (EC) No 1223/2009 for which a condition is specified in at least one of the columns g, h and i of the table in that Annex (d) substances listed in Appendix 13 to this Annex. The ancillary requirements in paragraphs 7 and 8 of column 2 of this entry apply to all mixtures for use for tattooing purposes, whether or not they contain a substance falling within points (a) to (d) of this column of

#### **National legislation Belgium**

FOAM CLEANER

No data available

#### **National legislation The Netherlands**

FOAM CLEANER

Waterbezwaarlijkheid B (4); Algemene Beoordelingsmethodiek (ABM)

this entry.

# National legislation France FOAM CLEANER

No data available

#### **National legislation Germany**

FOAM CLEANER

Lagerklasse (TRGS510)	2B: Aerosolpackungen und Feuerzeuge				
WGK 1; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017					
<u>acetone</u>					
TA-Luft	5.2.5				
TRGS900 - Risiko der	Aceton; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen				
Fruchtschädigung	Grenzwertes nicht befürchtet zu werden				
propane					
TA-Luft	TA-Luft 5.2.5				
<u>butane</u>					
TA-Luft	5.2.5				

## **National legislation Austria**

**FOAM CLEANER** 

No data available

# National legislation United Kingdom FOAM CLEANER

No data available

<u>butane</u>

Carcinogen Butane; Carc

#### Other relevant data

FOAM CLEANER

No data available

<u>acetone</u>

Acetone; A4 TLV - Carcinogen

# 15.2. Chemical safety assessment

No chemical safety assessment is required for a mixture.

# SECTION 16: Other information

#### Full text of any H- and EUH-statements referred to under section 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.

EUH066 Repeated exposure may cause skin dryness or cracking.

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(\*) INTERNAL CLASSIFICATION BY BIG

ADI Acceptable daily intake

AOEL Acceptable operator exposure level

ATE Acute Toxicity Estimate
BCF Bioconcentration Factor
BEI Biological Exposure Indices

CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

DMEL Derived Minimal Effect Level
DNEL Derived No Effect Level
EC10 Effect Concentration 10 %
EC50 Effect Concentration 50 %

ErC50 EC50 in terms of reduction of growth rate

GLP Good Laboratory Practice
LC0 Lethal Concentration 0 %
LC50 Lethal Concentration 50 %

LD50 Lethal Dose 50 %

LOAEC/LOAEL Lowest Observed Adverse Effect Concentration/Lowest Observed Adverse Effect Level

NOAEC/NOAEL No Observed Adverse Effect Concentration/No Observed Adverse Effect Level

NOEC/NOEL No Observed Effect Concentration/No Observed Effect Level
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

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. 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.

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