

## Soudafoam SMX Gun

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

#### 1.1 Product identifier:

Product name : Soudafoam SMX Gun  
 Registration number REACH : Not applicable (mixture)  
 Product type REACH : Mixture

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

1.2.1 Relevant identified uses  
 polyurethane

1.2.2 Uses advised against  
 No uses advised against known

#### 1.3 Details of the supplier of the safety data sheet:

##### Supplier of the safety data sheet

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

##### Manufacturer of the product

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

#### 1.4 Emergency telephone number:

24h/24h (Telephone advice: English, French, German, Dutch):  
 +32 14 58 45 45 (BIG)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture:

##### 2.1.1 Classification according to Regulation EC No 1272/2008

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.
Aquatic Chronic	category 2	H411: Toxic to aquatic life with long lasting effects.

##### 2.1.2 Classification according to Directive 67/548/EEC-1999/45/EC

Classified as dangerous in accordance with the criteria of Directives 67/548/EEC and 1999/45/EC

F+; R12 - Extremely flammable.

N; R51-53 - Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

#### 2.2 Label elements:

##### Labelling according to Regulation EC No 1272/2008 (CLP)

Drawn up according to the criteria of Regulation (EU) No 487/2013, 4th adaptation of Regulation (EC) No 1272/2008



Signal word  
 H-statements



Danger

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H222 Extremely flammable aerosol.  
 H229 Pressurised container: May burst if heated.  
 H411 Toxic to aquatic life with long lasting effects.

## P-statements

P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P211 Do not spray on an open flame or other ignition source.  
 P251 Do not pierce or burn, even after use.  
 P273 Avoid release to the environment.  
 P391 Collect spillage.  
 P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122°F.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

## Labelling according to Directive 67/548/EEC-1999/45/EC (DSD/DPD)

### Labels



Extremely flammable



Dangerous for the environment

### R-phrases

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

### S-phrases

02 Keep out of the reach of children  
 16 Keep away from sources of ignition - No smoking  
 23 Do not breathe spray  
 29 Do not empty into drains  
 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

### Additional recommendations

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C.  
 Do not pierce or burn, even after use.  
 Do not spray on a naked flame or any incandescent material.

## 2.3 Other hazards:

### CLP

May build up electrostatic charges: risk of ignition  
 May be ignited by sparks  
 Gas/vapour spreads at floor level: ignition hazard  
 Aerosol may explode under the effect of heat

### DSD/DPD

May build up electrostatic charges: risk of ignition  
 May be ignited by sparks  
 Gas/vapour spreads at floor level: ignition hazard  
 Aerosol may explode under the effect of heat

## 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 DSD/DPD	Classification according to CLP	Note	Remark
tris(methylphenyl) phosphate 01-2119531335-46	1330-78-5 215-548-8	1%<C<3%	Repr. Cat. 3; R62 N; R50-53	Repr. 2; H361fd Aquatic Acute 1; H400 Aquatic Chronic 2; H411	(1)(10)	Constituent
bis(methylphenyl) phenyl phosphate	26446-73-1 247-708-8	1%<C<25 %	N; R51-53	Aquatic Chronic 2; H411	(1)	Constituent

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diphenyl tolyl phosphate	26444-49-5 247-693-8	0.1%<C<2.5%	N; R50-53	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	(1)(2)(9)(10)	Constituent
propane 01-2119486944-21	74-98-6 200-827-9	1%<C<10%	F+; R12	Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant
isobutane 01-2119485395-27	75-28-5 200-857-2	1%<C<20%	F+; R12	Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant
dimethyl ether 01-2119472128-37	115-10-6 204-065-8	1%<C<10%	F+; R12	Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant
(1,3-butadiene, conc<0.1%)						

(9) M-factor, see heading 16

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

(2) Substance with a Community workplace exposure limit

(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. Soap may be used. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists.

#### After eye contact:

Rinse with water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

#### After ingestion:

Rinse mouth with water. 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:

No effects known.

##### After eye contact:

EXPOSURE TO HIGH CONCENTRATIONS: Redness of the eye tissue.

##### After ingestion:

Not applicable.

#### 4.2.2 Delayed symptoms

No effects known.

### 4.3 Indication of any immediate medical attention and special treatment needed:

If applicable and available it will be listed below.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media:

#### 5.1.1 Suitable extinguishing media:

Quantities of water. Polyvalent foam. BC powder. Carbon dioxide.

#### 5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

### 5.2 Special hazards arising from the substance or mixture:

On burning: release of toxic and corrosive gases/vapours (phosphorus oxides, carbon monoxide - carbon dioxide).

### 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: persistent 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.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures:

Stop engines and no smoking. No naked flames or sparks. Spark- and 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. Use appropriate containment to avoid environmental contamination.

### 6.3 Methods and material for containment and cleaning up:

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

### 6.4 Reference to other sections:

See heading 13.

## SECTION 7: Handling and storage

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

### 7.1 Precautions for safe handling:

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks. 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. Ventilation at floor level. Fireproof storeroom. Meet the legal requirements.

Max. storage time: 1 year(s).

#### 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:

#### 8.1.1 Occupational exposure

##### a) Occupational exposure limit values

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

##### The Netherlands

Dimethylether	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	496 ppm	
	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	950 mg/m <sup>3</sup>	
	Short time value (Public occupational exposure limit value)	783 ppm	
	Short time value (Public occupational exposure limit value)	1500 mg/m <sup>3</sup>	

##### EU

Dimethylether	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	1000 ppm	
	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	1920 mg/m <sup>3</sup>	

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## Belgium

Hydrocarbures aliphatiques sous forme gazeuse : (Alcanes C1-C4)	Time-weighted average exposure limit 8 h	1000 ppm	
Oxyde de diméthyle	Time-weighted average exposure limit 8 h	1000 ppm	
	Time-weighted average exposure limit 8 h	1920 mg/m <sup>3</sup>	

## USA (TLV-ACGIH)

Butane, all isomers	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	1000 ppm	
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## Germany

Dimethylether	Time-weighted average exposure limit 8 h (TRGS 900)	1000 ppm	
	Time-weighted average exposure limit 8 h (TRGS 900)	1900 mg/m <sup>3</sup>	
Isobutan	Time-weighted average exposure limit 8 h (TRGS 900)	1000 ppm	
	Time-weighted average exposure limit 8 h (TRGS 900)	2400 mg/m <sup>3</sup>	
Propan	Time-weighted average exposure limit 8 h (TRGS 900)	1000 ppm	
	Time-weighted average exposure limit 8 h (TRGS 900)	1800 mg/m <sup>3</sup>	

## France

Oxyde de diméthyle	Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative)	1000 ppm	
	Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative)	1920 mg/m <sup>3</sup>	

## UK

Dimethyl ether	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	400 ppm	
	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	766 mg/m <sup>3</sup>	
	Short time value (Workplace exposure limit (EH40/2005))	500 ppm	
	Short time value (Workplace exposure limit (EH40/2005))	958 mg/m <sup>3</sup>	

### b) National biological limit values

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

#### 8.1.2 Sampling methods

If applicable and available it will be listed below.

#### 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

##### PNEC

tris(methylphenyl) phosphate

Compartments	Value	Remark
Fresh water	0.000102 mg/l	
Marine water	0.0000102 mg/l	
Aqua (intermittent releases)	0.000102 mg/l	
STP	100 mg/l	
Fresh water sediment	0.0404 mg/kg sediment dw	
Marine water sediment	0.00404 mg/kg sediment dw	
Soil	0.1 mg/kg soil dw	
Oral	0.67 mg/kg food	

#### 8.1.5 Control banding

If applicable and available it will be listed below.

### 8.2 Exposure controls:

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## 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:

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

### b) Hand protection:

Gloves.

Materials	Breakthrough time	Thickness
LDPE (Low Density Poly Ethylene)	10 minutes	0.025 mm

- materials (good resistance)

LDPE (Low Density Poly Ethylene).

### c) Eye protection:

Protective goggles.

### d) Skin protection:

Protective clothing.

## 8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties:

Physical form	Aerosol
Odour	Characteristic odour
Odour threshold	No data available
Colour	Variable in colour, depending on the composition
Particle size	No data available
Explosion limits	No data available
Flammability	Extremely flammable aerosol.
Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Melting point	No data available
Boiling point	No data available
Flash point	Not applicable
Evaporation rate	No data available
Relative vapour density	No data available
Vapour pressure	No data available
Solubility	water ; insoluble
Relative density	No data available
Decomposition temperature	No data available
Auto-ignition temperature	No data available
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
pH	No data available

### 9.2 Other information:

Absolute density	No data available
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## SECTION 10: Stability and reactivity

### 10.1 Reactivity:

May build up electrostatic charges: risk of ignition. May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard. No data available.

### 10.2 Chemical stability:

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions:

No data available.

### 10.4 Conditions to avoid:

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

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## 10.5 Incompatible materials:

No data available.

## 10.6 Hazardous decomposition products:

On burning: release of toxic and corrosive gases/vapours (phosphorus oxides, carbon monoxide - carbon dioxide).

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects:

#### 11.1.1 Test results

#### Acute toxicity

##### Soudafoam SMX Gun

No (test) data on the mixture available

##### tris(methylphenyl) phosphate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50		>20000 mg/kg bw		Rat (male/female)	Experimental value	
Dermal	LD50		3.7 g/kg	24 h	Rabbit (male/female)	Experimental value	
Inhalation (aerosol)	LC50		>11.1 mg/l air	1 h	Rat (male/female)	Experimental value	

##### diphenyl tolyl phosphate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50		6400 mg/kg		Rat	Literature study	
Dermal	LD50		> 2000 mg/kg		Rabbit	Literature study	

Judgement is based on the relevant ingredients

#### Conclusion

Low acute toxicity by the dermal route

Low acute toxicity by the oral route

Low acute toxicity by the inhalation route

#### Corrosion/irritation

##### Soudafoam SMX Gun

No (test) data on the mixture available

##### tris(methylphenyl) phosphate

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
	Not irritating		24 h		Rabbit	Experimental value	
Skin	Slightly irritating		72 h	24; 72 hours	Rabbit	Experimental value	

##### diphenyl tolyl phosphate

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Slightly irritating	Other			Rabbit		Drinking water
Eye	Not irritating	OECD 405			Rabbit	Literature study	
Skin	Slightly irritating	Other			Rabbit	Literature study	
Skin	Not irritating	OECD 404			Rabbit	Literature study	
	Slightly irritating						Drinking water

Judgement is based on the relevant ingredients

#### Conclusion

Not classified as irritating to the skin

Not classified as irritating to the eyes

#### Respiratory or skin sensitisation

##### Soudafoam SMX Gun

No (test) data on the mixture available

##### tris(methylphenyl) phosphate

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
	Not sensitizing				Human		
Skin	Ambiguous	OECD 429			Mouse (female)	Experimental value	
	Not sensitizing					Expert judgement	

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## diphenyl tolyl phosphate

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Dermal	Not sensitizing	Other			Human	Literature study	

Judgement is based on the relevant ingredients

### Conclusion

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

### Specific target organ toxicity

#### Soudafoam SMX Gun

No (test)data on the mixture available

## tris(methylphenyl) phosphate

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	NOAEL		1000 mg/kg bw/day				Rat (male/female)	Experimental value
Dermal								Data waiving
Inhalation								Data waiving

Judgement is based on the relevant ingredients

### Conclusion

Low sub-chronic toxicity by the dermal route  
Low sub-chronic toxicity by the oral route  
Low sub-chronic toxicity by inhalation route

### Mutagenicity (in vitro)

#### Soudafoam SMX Gun

No (test)data on the mixture available

## tris(methylphenyl) phosphate

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	OECD 473	Chinese hamster lung fibroblasts		Experimental value

### Mutagenicity (in vivo)

#### Soudafoam SMX Gun

No (test)data on the mixture available

### Carcinogenicity

#### Soudafoam SMX Gun

No (test)data on the mixture available

### Reproductive toxicity

#### Soudafoam SMX Gun

No (test)data on the mixture available

## tris(methylphenyl) phosphate

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	LOAEL	EPA OPPTS 870.3700	20 mg/kg bw/day	19 day(s)	Rat			Experimental value
Maternal toxicity	NOEL	EPA OPPTS 870.3700	20 mg/kg bw/day	19 day(s)	Rat			Experimental value

Judgement is based on the relevant ingredients

### Conclusion CMR

Not classified for carcinogenicity  
Not classified for mutagenic or genotoxic toxicity  
Not classified for reprotoxic or developmental toxicity

### Toxicity other effects

#### Soudafoam SMX Gun

No (test)data on the mixture available

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## tris(methylphenyl) phosphate

Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
NOAEL		2000 mg/kg bw/day	Brain	No effect		Poultry, birds and rats (female)	Experimental value

### Chronic effects from short and long-term exposure

#### Soudafoam SMX Gun

No effects known.

## SECTION 12: Ecological information

### 12.1 Toxicity:

#### Soudafoam SMX Gun

No (test) data on the mixture available

## tris(methylphenyl) phosphate

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		0.75 mg/l	96 h	Salmo gairdneri	Static system	Fresh water	Experimental value; Nominal concentration
Acute toxicity invertebrates	EC50	OECD 202	146 µg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	EL50	OECD 201	> 2500 µg/l	72 h	Selenastrum capricornutum	Static system	Fresh water	Experimental value; GLP
Long-term toxicity fish	NOEC		0.032 mg/l	6 week(s)	Oryzias latipes	Static system	Fresh water	Weight of evidence; Nominal concentration
Long-term toxicity aquatic invertebrates	NOEC		0.011 - 0.063 mg/l	90 day(s)	Gammarus sp.	Flow-through system	Fresh water	Weight of evidence; Nominal concentration
Toxicity aquatic micro-organisms	EC50	OECD 209	> 1000 mg/l	3 h	Activated sludge	Static system	Fresh water	Experimental value; GLP

## diphenyl tolyl phosphate

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	1.3 mg/l	96 h	Oryzias latipes			
Acute toxicity invertebrates	EC50		1 mg/l	48 h	Daphnia magna			
	EC50	OECD 202	3.7 mg/l	24 h	Daphnia magna			
	EC0	OECD 202	0.12 mg/l	504 h	Daphnia magna			
Toxicity algae and other aquatic plants	EC50		0.6 mg/l	72 h	Algae			
	EC50	OECD 201	0.99 mg/l	72 h	Selenastrum capricornutum			
Long-term toxicity aquatic invertebrates	EC50	OECD 202	0.27 mg/l	14 day(s)	Daphnia magna			Reproduction
	EC50	OECD 202	0.31 mg/l	21 day(s)	Daphnia magna			Reproduction
	LC50	OECD 202	0.35 mg/l	21 day(s)	Daphnia magna			Lethal
	NOEC	OECD 202	0.12 mg/l	21 day(s)	Daphnia magna			Lethal
Toxicity aquatic micro-organisms	EC50		>10000 mg/l	3 h				

Classification is based on the relevant ingredients

#### Conclusion

Toxic to aquatic life with long lasting effects.

### 12.2 Persistence and degradability:

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## tris(methylphenyl) phosphate

### Biodegradation water

Method	Value	Duration	Value determination
OECD 301D: Closed Bottle Test	24.2 %	28 day(s)	Experimental value

### Half-life water (t1/2 water)

Method	Value	Primary degradation/mineralisation	Value determination
OECD 111: Hydrolysis as a function of pH	6.56 - 79.8 day(s)	Primary degradation	Experimental value

## diphenyl tolyl phosphate

### Biodegradation water

Method	Value	Duration	Value determination
OECD 301C: Modified MITI Test (I)	0 - 5 %	28 day(s)	Experimental value

### Conclusion

Contains non readily biodegradable component(s)

## 12.3 Bioaccumulative potential:

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#### Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

## tris(methylphenyl) phosphate

### BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		770	432 h	Salmo gairdneri	Experimental value

#### Log Kow

Method	Remark	Value	Temperature	Value determination
Other		5.93		Experimental value

## bis(methylphenyl) phenyl phosphate

#### Log Kow

Method	Remark	Value	Temperature	Value determination
	No data available			

## diphenyl tolyl phosphate

#### Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 117		3.7	25 °C	

### Conclusion

Contains bioaccumulative component(s)

## 12.4 Mobility in soil:

### tris(methylphenyl) phosphate

#### (log) Koc

Parameter	Method	Value	Value determination
log Koc	OECD 121	4.31	Experimental value

#### Percent distribution

Method	Fraction air	Fraction biota	Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level I	0.665 %	0.031 %	49.4 %	48.8 %	0.726 %	QSAR

## diphenyl tolyl phosphate

#### Percent distribution

Method	Fraction air	Fraction biota	Fraction sediment	Fraction soil	Fraction water	Value determination
Other	0 %		2.3 %	0.1 %	97.6 %	Calculated value

### Conclusion

Contains component(s) that adsorb(s) into the soil

## 12.5 Results of PBT and vPvB assessment:

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

## 12.6 Other adverse effects:

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## Global warming potential (GWP)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EC) No 842/2006)

## Ozone-depleting potential (ODP)

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

diphenyl tolyl phosphate

## Ground water

Ground water 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

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

16 05 04\* (gases in pressure containers and discarded chemicals: gases in pressure containers (including halons) containing dangerous substances).

Depending on branch of industry and production process, also other waste codes may be applicable. Hazardous waste according to Directive 2008/98/EC.

#### 13.1.2 Disposal methods

Recycle/reuse. Remove waste in accordance with local and/or national regulations. Specific treatment. 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. Do not discharge into drains or the environment.

#### 13.1.3 Packaging/Container

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
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#### 14.2 UN proper shipping name:

Proper shipping name	Aerosols
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#### 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	yes
--	-----

#### 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)

#### 14.1 UN number:

UN number	1950
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#### 14.2 UN proper shipping name:

Proper shipping name	Aerosols
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#### 14.3 Transport hazard class(es):

Hazard identification number	23
Class	2
Classification code	5F

#### 14.4 Packing group:

Packing group	
Labels	2.1

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## 14.5 Environmental hazards:

Environmentally hazardous substance mark	yes
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## 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)

## Inland waterways (ADN)

### 14.1 UN number:

UN number	1950
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### 14.2 UN proper shipping name:

Proper shipping name	Aerosols
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### 14.3 Transport hazard class(es):

Class	2
Classification code	5F

### 14.4 Packing group:

Packing group	
Labels	2.1

## 14.5 Environmental hazards:

Environmentally hazardous substance mark	yes
--	-----

## 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)

## Sea (IMDG/IMSBC)

### 14.1 UN number:

UN number	1950
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### 14.2 UN proper shipping name:

Proper shipping name	Aerosols
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### 14.3 Transport hazard class(es):

Class	2.1
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### 14.4 Packing group:

Packing group	
Labels	2.1

## 14.5 Environmental hazards:

Marine pollutant	P
Environmentally hazardous substance mark	yes

## 14.6 Special precautions for user:

Special provisions	63
Special provisions	190
Special provisions	277
Special provisions	327
Special provisions	344
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 73/78 and the IBC Code:

Annex II of MARPOL 73/78	Not applicable
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## Air (ICAO-TI/IATA-DGR)

### 14.1 UN number:

UN number	1950
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### 14.2 UN proper shipping name:

Proper shipping name	Aerosols, flammable
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### 14.3 Transport hazard class(es):

Class	2.1
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## 14.4 Packing group:

Packing group	
Labels	2.1

## 14.5 Environmental hazards:

Environmentally hazardous substance mark	yes
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## 14.6 Special precautions for user:

Special provisions	A145
Special provisions	A167
Special provisions	A802
Passenger and cargo transport: limited quantities: maximum net quantity per packaging	30 kg G

## SECTION 15: Regulatory information

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

#### European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
19.44 %	

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.

tris(methylphenyl) phosphate diphenyl tolyl phosphate	Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are 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 R65 or 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 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.'
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#### National legislation The Netherlands

Soudafoam SMX Gun

Waste identification (the Netherlands)	LWCA (the Netherlands): KGA category 06
Waterbezwaarlijkheid	6

#### National legislation Germany

Soudafoam SMX Gun

WGK	2: Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)
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tris(methylphenyl) phosphate

TA-Luft	5.2.5; I
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diphenyl tolyl phosphate

TA-Luft	5.2.5; I
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## propane

Schwangerschaft Gruppe	D
MAK 8-Stunden-Mittelwert ppm	Propan: 1000 ppm
MAK 8-Stunden-Mittelwert mg/m <sup>3</sup>	Propan: 1800 mg/m <sup>3</sup>
TA-Luft	5.2.5

## isobutane

Schwangerschaft Gruppe	D
MAK 8-Stunden-Mittelwert ppm	Butan (beide Isomeren); 1000 ppm
MAK 8-Stunden-Mittelwert mg/m <sup>3</sup>	Butan (beide Isomeren); 2400 mg/m <sup>3</sup>
TA-Luft	5.2.5

## dimethyl ether

Schwangerschaft Gruppe	D
MAK 8-Stunden-Mittelwert ppm	Dimethylether; 1000 ppm
MAK 8-Stunden-Mittelwert mg/m <sup>3</sup>	Dimethylether; 1900 mg/m <sup>3</sup>
TA-Luft	5.2.5

### National legislation France

Soudafoam SMX Gun  
No data available

### National legislation Belgium

Soudafoam SMX Gun  
No data available

### Other relevant data

Soudafoam SMX Gun  
No data available

## 15.2 Chemical safety assessment:

No chemical safety assessment is required.

## SECTION 16: Other information

### Full text of any R-phrases referred to under headings 2 and 3:

R50 Very toxic to aquatic organisms  
R51 Toxic to aquatic organisms  
R53 May cause long-term adverse effects in the aquatic environment  
R62 Possible risk of impaired fertility

### Full text of any H-statements referred to under headings 2 and 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.  
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.

(\*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

DSD Dangerous Substance Directive

DPD Dangerous Preparation Directive

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

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