

# SAFETY DATA SHEET

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

## WHEEL CLEANER

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

#### 1.1. Product identifier

**Product name** : WHEEL 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  
☎ +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  
☎ +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

Class	Category	Hazard statements
Skin Corr.	category 1C	H314: Causes severe skin burns and eye damage.
Eye Dam.	category 1	H318: Causes serious eye damage.

#### 2.2. Label elements



Contains: Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.; phosphoric acid; isotridecanol, ethoxylated; sulphuric acid; sodium etasulfate.

**Signal word** Danger

**H-statements**  
H314 Causes severe skin burns and eye damage.

**P-statements**  
P280 Wear protective gloves, protective clothing and eye protection/face protection.  
P260 Do not breathe vapours/mist.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.

#### 2.3. Other hazards

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No other hazards known

## 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	M-factors and ATE
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. 01-2119490234-40	85536-14-7 287-494-3	C≤9%	Acute Tox. 4; H302 Skin Corr. 1C; H314 Eye Dam. 1; H318 Aquatic Chronic 3; H412	(1)(10)	Constituent	
phosphoric acid 01-2119485924-24	7664-38-2 231-633-2	C≤5%	Met. Corr. 1; H290 Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Corr. 1B; H314: C≥25%, (CLP Annex VI (ATP 0)) Skin Irrit. 2; H315: 10% ≤C<25%, (CLP Annex VI (ATP 0)) Eye Irrit. 2; H319: 10% ≤C<25%, (CLP Annex VI (ATP 0))	(1)(2)(6)(10)	Constituent	
isotridecanol, ethoxylated	69011-36-5	C≤4%	Acute Tox. 4; H302 Eye Dam. 1; H318	(1)(10)	Constituent	
sulphuric acid 01-2119458838-20	7664-93-9 231-639-5	C≤3%	Skin Corr. 1A; H314 Eye Dam. 1; H318 Skin Corr. 1A; H314: C≥15%, (CLP Annex VI (ATP 0)) Skin Irrit. 2; H315: 5%≤C<15% , (CLP Annex VI (ATP 0)) Eye Irrit. 2; H319: 5%≤C<15%, (CLP Annex VI (ATP 0))	(1)(2)(10)	Constituent	
sodium etasulfate 01-2119971586-23	126-92-1 204-812-8	C≤2%	Eye Dam. 1; H318 Skin Irrit. 2; H315 Eye Dam. 1; H318: C≥20%, (ECHA) Eye Irrit. 2; H319: 10% ≤C<20%, (ECHA)	(1)	Constituent	

(1) For H- and EUH-statements in full: see section 16

(2) Substance with a Community workplace exposure limit

(6) Enumerated in Annex VI of Regulation (EC) No. 1272/2008 but the classification has been adapted after evaluation of available test data

(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:

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. Immediately consult a doctor/medical service.

#### After skin contact:

If possible, wipe up/dry remove chemical. Then rinse/shower immediately for 30 minutes with (lukewarm) water. Cut clothing; never remove burnt clothing from the wound. Do not give any pain medication. Consult a doctor/medical service.

#### After eye contact:

Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a doctor/medical service.

#### After ingestion:

Rinse mouth with water. Immediately 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:

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EXPOSURE TO HIGH CONCENTRATIONS: Corrosion of the upper respiratory tract. Respiratory difficulties. Coughing. Risk of lung oedema. Possible inflammation of the respiratory tract.

**After skin contact:**

Caustic burns/corrosion of the skin.

**After eye contact:**

Corrosion of the eye tissue.

**After ingestion:**

Burns to the gastric/intestinal mucosa. Possible esophageal perforation.

**4.2.2 Delayed symptoms**

No effects known.

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

If applicable and available it will be listed below.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**5.1.1 Suitable extinguishing media:**

Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting class B foam extinguisher, Quick-acting CO2 extinguisher.

Major fire: Class B foam (alcohol-resistant), Water spray if puddle cannot expand.

**5.1.2 Unsuitable extinguishing media:**

Small fire: Water (quick-acting extinguisher, reel); risk of puddle expansion.

Major fire: Water; risk of puddle expansion.

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

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

### 5.3. Advice for firefighters

**5.3.1 Instructions:**

Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it. Heat exposure: dilute toxic gas/vapour with water spray.

**5.3.2 Special protective equipment for fire-fighters:**

Gloves (EN 374). Face shield (EN 166). Corrosion-proof suit (EN 14605). 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

No naked flames.

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

See section 8.2

**6.1.2 Protective equipment for emergency responders**

Gloves (EN 374). Face shield (EN 166). Corrosion-proof suit (EN 14605).

Suitable protective clothing

See section 8.2

### 6.2. Environmental precautions

Contain released product. Dam up the liquid spill. Prevent soil and water pollution. Prevent spreading in sewers.

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

Take up liquid spill into 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

Keep away from naked flames/heat. Observe strict hygiene. Remove contaminated clothing immediately. Keep container tightly closed. Do not discharge the waste into the drain.

### 7.2. Conditions for safe storage, including any incompatibilities

**7.2.1 Safe storage requirements:**

Storage temperature: < 50 °C. Meet the legal requirements. Protect against frost. Keep out of direct sunlight. Keep container in a well-ventilated place. Keep container tightly closed.

**7.2.2 Keep away from:**

Heat sources, oxidizing agents, (strong) bases.

**7.2.3 Suitable packaging material:**

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No data available

## 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

Orthophosphoric acid	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	1 mg/m <sup>3</sup>
	Short time value (Indicative occupational exposure limit value)	2 mg/m <sup>3</sup>
Sulphuric acid (mist)	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	0.05 mg/m <sup>3</sup>

#### Belgium

Acide phosphorique	Time-weighted average exposure limit 8 h	1 mg/m <sup>3</sup>
	Short time value	2 mg/m <sup>3</sup>
Acide sulfurique (brume)	Time-weighted average exposure limit 8 h	0.2 mg/m <sup>3</sup>

#### The Netherlands

Fosforzuur	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	0.25 ppm
	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	1 mg/m <sup>3</sup>
	Short time value (Public occupational exposure limit value)	0.49 ppm
	Short time value (Public occupational exposure limit value)	2 mg/m <sup>3</sup>
Zwavelzuur (nevel), gedefinieerd als de thoracale fractie	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	0.012 ppm
	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	0.05 mg/m <sup>3</sup>

#### France

Acide phosphorique	Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative)	0.2 ppm
	Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative)	1 mg/m <sup>3</sup>
	Short time value (VRI: Valeur réglementaire indicative)	0.5 ppm
	Short time value (VRI: Valeur réglementaire indicative)	2 mg/m <sup>3</sup>
Acide sulfurique	Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative)	0.05 mg/m <sup>3</sup>
	Short time value (VL: Valeur non réglementaire indicative)	3 mg/m <sup>3</sup>

#### Germany

Orthophosphorsäure	Time-weighted average exposure limit 8 h (TRGS 900)	2 mg/m <sup>3</sup>
Schwefelsäure	Time-weighted average exposure limit 8 h (TRGS 900)	0.1 mg/m <sup>3</sup>

#### Austria

Phosphorsäure	Tagesmittelwert (MAK)	1 mg/m <sup>3</sup>
	Kurzzeitwert 15(Miw) 4x (MAK)	2 mg/m <sup>3</sup>
Schwefelsäure	Tagesmittelwert (MAK)	0.1 mg/m <sup>3</sup>
	Kurzzeitwert Mow 8x (MAK)	0.2 mg/m <sup>3</sup>

#### UK

Orthophosphoric acid	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	1 mg/m <sup>3</sup>
	Short time value (Workplace exposure limit (EH40/2005))	2 mg/m <sup>3</sup>
Sulphuric acid (mist)	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	0.05 mg/m <sup>3</sup>

#### USA (TLV-ACGIH)

Phosphoric acid	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	1 mg/m <sup>3</sup>
	Short time value (TLV - Adopted Value)	3 mg/m <sup>3</sup>
Sulfuric acid	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	0.2 mg/m <sup>3</sup> (T)

(T): Thoracic fraction

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## b) National biological limit values

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

### 8.1.2 Sampling methods

Product name	Test	Number
NON-VOLATILE ACIDS (Phosphoric Acid)	NIOSH	7908
NON-VOLATILE ACIDS (Sulfuric Acid)	NIOSH	7908
o-Phosphoric Acid	NIOSH	7903
Phosphoric Acid	OSHA	ID 111
Phosphoric Acid	OSHA	ID 165SG
Sulfuric Acid (Acids, inorganic)	NIOSH	7903
Sulfuric Acid mist	ASTM	D 4856-88
Sulfuric Acid	NIOSH	7903
Sulfuric Acid	OSHA	ID 113
Sulfuric Acid	OSHA	ID 165SG

### 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

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	7.6 mg/m <sup>3</sup>	
	Long-term systemic effects oral	119 mg/kg bw/day	

phosphoric acid

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	10.7 mg/m <sup>3</sup>	
	Long-term local effects inhalation	1 mg/m <sup>3</sup>	
	Acute systemic effects inhalation	2 mg/m <sup>3</sup>	

sulphuric acid

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term local effects inhalation	0.05 mg/m <sup>3</sup>	
	Acute local effects inhalation	0.1 mg/m <sup>3</sup>	

sodium etasulfate

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	285 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	4060 mg/kg bw/day	

#### DNEL/DMEL - General population

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	1.3 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	42.5 mg/kg bw/day	
	Long-term systemic effects oral	0.425 mg/kg bw/day	

phosphoric acid

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	4.57 mg/m <sup>3</sup>	
	Long-term local effects inhalation	0.36 mg/m <sup>3</sup>	
	Long-term systemic effects oral	0.1 mg/kg bw/day	

sodium etasulfate

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	85 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	2440 mg/kg bw/day	
	Long-term systemic effects oral	24 mg/kg bw/day	

#### PNEC

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

Compartments	Value	Remark
Fresh water	0.268 mg/l	
Marine water	0.027 mg/l	
Fresh water (intermittent releases)	0.017 mg/l	
STP	3.43 mg/l	
Fresh water sediment	8.1 mg/kg sediment dw	
Marine water sediment	6.8 mg/kg sediment dw	
Soil	35 mg/kg soil dw	

sulphuric acid

Compartments	Value	Remark
Fresh water	0.0025 mg/l	
Marine water	0.00025 mg/l	
STP	8.8 mg/l	
Fresh water sediment	0.002 mg/kg sediment dw	
Marine water sediment	0.002 mg/kg sediment dw	

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sodium etasulfate

Compartments	Value	Remark
Fresh water	0.136 mg/l	
Marine water	0.014 mg/l	
Fresh water (intermittent releases)	4.83 mg/l	
STP	1.35 mg/l	
Fresh water sediment	1.5 mg/kg sediment dw	
Marine water sediment	0.15 mg/kg sediment dw	
Soil	0.22 mg/kg soil dw	

## 8.1.5 Control banding

If applicable and available it will be listed below.

## 8.2. Exposure controls

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

### 8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

### 8.2.2 Individual protection measures, such as personal protective equipment

Observe strict hygiene. Do not eat, drink or smoke during work.

#### a) Respiratory protection:

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

#### b) Hand protection:

Protective gloves against chemicals (EN 374).

Materials	Measured breakthrough time	Thickness	Protection index	Remark
viton	> 480 minutes	0.7 mm	Class 6	

#### c) Eye protection:

Face shield (EN 166).

#### d) Skin protection:

Corrosion-proof clothing (EN 14605).

### 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	Liquid
Odour	Characteristic odour
Odour threshold	No data available in the literature
Colour	No data available on colour
Particle size	Not applicable (liquid)
Explosion limits	No data available in the literature
Flammability	Not classified as flammable
Log Kow	Not applicable (mixture)
Dynamic viscosity	1 mPa.s ; 20 °C
Kinematic viscosity	1 mm <sup>2</sup> /s ; 20 °C
Melting point	0 °C
Boiling point	100 °C - 290 °C
Relative vapour density	No data available in the literature
Vapour pressure	23 hPa ; 20 °C
Solubility	Water ; complete
Relative density	1.07 ; 20 °C
Absolute density	1071 kg/m <sup>3</sup> ; 20 °C
Decomposition temperature	No data available in the literature
Auto-ignition temperature	No data available in the literature
Flash point	No data available in the literature
pH	0.7

### 9.2. Other information

Evaporation rate	0.3 ; Butyl acetate
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Heating increases the fire hazard. Acid reaction.

### 10.2. Chemical stability

Stable under normal conditions.

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## 10.3. Possibility of hazardous reactions

No data available.

## 10.4. Conditions to avoid

### Precautionary measures

Keep away from naked flames/heat.

## 10.5. Incompatible materials

Oxidizing agents, (strong) bases.

## 10.6. Hazardous decomposition products

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

## 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

##### WHEEL CLEANER

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	ATE		> 2000 mg/kg bw			Calculated value	
Dermal	ATE		> 2000 mg/kg bw			Calculated value	

Judgement is based on the relevant ingredients  
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	OECD 401	1470 mg/kg bw		Rat (male / female)	Experimental value	
Dermal	LD50	OECD 402	> 2000 mg/kg bw	24 h	Rat (male / female)	Experimental value	
Inhalation						Data waiving	

##### phosphoric acid

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 423	2600 mg/kg bw		Rat (female)	Experimental value	10 % aqueous solution
Oral			category 4			Literature study	
Dermal	LD50		> 2000 mg/kg bw	24 h	Rabbit	Experimental value	85 % aqueous solution
Inhalation	LC50	Equivalent to OECD 403	3.85 mg/l air	1 h	Rat (male)	Read-across	Active element

##### isotridecanol, ethoxylated

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral			category 4			Literature study	

##### sulphuric acid

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	2140 mg/kg bw		Rat (male / female)	Experimental value	Aqueous solution
Dermal						Data waiving	
Inhalation (aerosol)	LC50	Equivalent to OECD 403	0.375 mg/l air	4 h	Rat (male / female)	Experimental value	

##### sodium etasulfate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	2840 mg/kg bw		Rat (male / female)	Experimental value	
Dermal	LD50	OECD 402	> 2000 mg/kg bw	24 h	Rat (male / female)	Read-across	
Inhalation						Data waiving	

#### Conclusion

Not classified for acute toxicity

#### Corrosion/irritation

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No (test)data on the mixture available

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Classification is based on the relevant ingredients

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Serious eye damage	OECD 405		1; 24; 48; 72; 168 hours	Rabbit	Experimental value	Single treatment without rinsing
Skin	Corrosive	OECD 404	4 h	1; 24; 48; 72 hours	Rabbit	Experimental value	

phosphoric acid

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Serious eye damage	16 CFR 1500.42		24; 48; 72 hours	Rabbit	Experimental value	85 % aqueous solution
Skin	Corrosive	16 CFR 1500.41	24 h	24; 72 hours	Rabbit	Experimental value	80 % aqueous solution

isotridecanol, ethoxylated

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Serious eye damage; category 1						

sulphuric acid

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Serious eye damage; category 1					Annex VI	
Skin	Highly corrosive; category 1A					Annex VI	

sodium etasulfate

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating	Equivalent to OECD 405		24; 48; 72 hours	Rat	Experimental value	Aqueous solution
Eye	Serious eye damage; category 1					Literature study	
Skin	Irritating	OECD 404	4 h	24; 72 hours	Rabbit	Read-across	

## Conclusion

Causes severe skin burns and eye damage.

Not classified as irritating to the respiratory system

## Respiratory or skin sensitisation

### WHEEL CLEANER

No (test) data on the mixture available

Judgement is based on the relevant ingredients

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	Guinea pig maximisation test		24; 48 hours	Guinea pig (male / female)	Experimental value	

phosphoric acid

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

sulphuric acid

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

sodium etasulfate

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Dermal (on the ears)	Not sensitizing	Equivalent to OECD 429			Mouse (female)	Read-across	

## Conclusion

Not classified as sensitizing for skin

Not classified as sensitizing for inhalation

## Specific target organ toxicity

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No (test)data on the mixture available

Judgement is based on the relevant ingredients

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (drinking water)	NOAEL		85 mg/kg bw/day	Liver; kidney	No effect	9 month(s)	Rat (male / female)	Read-across
Dermal	NOAEL		5 %		No effect	26 week(s)	Rat (male / female)	Read-across

### phosphoric acid

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (diet)	LOAEL	Subchronic toxicity test	155 mg/kg bw/day	Kidney	Affection of the renal tissue	90 day(s)	Rat (male / female)	Experimental value of similar product
Oral (stomach tube)	NOAEL	OECD 422	250 mg/kg		No effect	6 week(s) - 7 week(s)	Rat (male / female)	Experimental value
Dermal								Data waiving
Inhalation (aerosol)	Dose level		10.6 mg/m <sup>3</sup> air	Liver	Enlargement/affection of the liver		Rat	Experimental value

### sulphuric acid

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral								Data waiving
Dermal								Data waiving
Inhalation (aerosol)	LOAEC	OECD 412	0.3 mg/m <sup>3</sup> air	Respiratory tract	Histopathology	4 weeks (6h / day, 5 days / week)	Rat (female)	Experimental value
Inhalation		Human observation	> 1 mg/m <sup>3</sup> air	Lungs	Lung tissue affection/degeneration		Human	Weight of evidence

### sodium etasulfate

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (diet)	NOAEL	Equivalent to OECD 408	488 mg/kg bw/day		No effect	13 weeks (daily)	Rat (male / female)	Read-across
Oral (diet)	LOAEL	Equivalent to OECD 408	1016 mg/kg bw/day		Systemic effects	13 weeks (daily)	Rat (male / female)	Read-across
Dermal	NOAEL	Equivalent to OECD 411	10 %		No effect	13 weeks (2 times / week)	Mouse (male / female)	Read-across
Dermal	LOAEL	Equivalent to OECD 411	12.5 %	Skin	Caustic burns/corrosion of the skin	13 weeks (2 times / week)	Mouse (male / female)	Read-across

### Conclusion

Not classified for subchronic toxicity

### Mutagenicity (in vitro)

## WHEEL CLEANER

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

Result	Method	Test substrate	Effect	Value determination	Remark
Negative	Equivalent to OECD 476	Chinese hamster ovary (CHO)		Read-across	
Negative	EU Method B.13/14	Bacteria (S.typhimurium)		Experimental value	

### phosphoric acid

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S. typhimurium and E. coli)		Experimental value	85 % aqueous solution
Negative with metabolic activation, negative without metabolic activation	OECD 473	Human lymphocytes		Experimental value	85 % aqueous solution

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# WHEEL CLEANER

## sulphuric acid

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	
Positive with metabolic activation, positive without metabolic activation	Equivalent to OECD 473	Chinese hamster ovary (CHO)	No effect	Experimental value	

## sodium etasulfate

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

## Mutagenicity (in vivo)

### WHEEL CLEANER

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative (Oral (stomach tube))	Equivalent to OECD 474	72 h	Mouse (male / female)		Experimental value

### phosphoric acid

Result	Method	Exposure time	Test substrate	Organ	Value determination
					Data waiving

### sulphuric acid

Result	Method	Exposure time	Test substrate	Organ	Value determination
					Data waiving

### Conclusion

Not classified for mutagenic or genotoxic toxicity

## Carcinogenicity

### WHEEL CLEANER

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

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

### sulphuric acid

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Oral (stomach tube)	Dose level	Carcinogenic toxicity study	200 µl/week	> 1 year(s)	Mouse (male / female)	Tumours of the gastrointestinal tract	Stomach	Weight of evidence

### sodium etasulfate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Oral (diet)	NOEL	Equivalent to OECD 453	> 1125 mg/kg bw/day	2 year(s)	Rat (male / female)	No carcinogenic effect		Read-across

### Conclusion

Not classified for carcinogenicity

## Reproductive toxicity

### WHEEL CLEANER

No (test)data on the mixture available

Judgement is based on the relevant ingredients

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# WHEEL CLEANER

## Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	Developmental toxicity study	300 mg/kg	10 days (gestation, daily)	Rat	No effect		Read-across
Maternal toxicity (Oral (drinking water))	NOAEL	Developmental toxicity study	300 mg/kg	10 days (gestation, daily)	Rat	No effect		Read-across
Effects on fertility (Oral (diet))	NOAEL		350 mg/kg bw/day	2 year(s)	Rat (male / female)	No effect		Read-across

## phosphoric acid

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity (Oral (stomach tube))	NOAEL	Equivalent to OECD 414	≥ 410 mg/kg bw/day	10 days (gestation, daily)	Rat	No effect		Experimental value
Maternal toxicity (Oral (stomach tube))	NOAEL	Equivalent to OECD 414	≥ 410 mg/kg bw/day	10 days (gestation, daily)	Rat	No effect		Experimental value
Effects on fertility (Oral (stomach tube))	NOAEL	OECD 422	≥ 500 mg/kg bw/day	6 week(s) - 7 week (s)	Rat (male / female)	No effect		Experimental value

## sulphuric acid

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity (Inhalation (aerosol))	NOAEC	Equivalent to OECD 414	19.3 mg/m <sup>3</sup> air	13 days (gestation, daily)	Rabbit (female)	No effect		Experimental value
Maternal toxicity (Inhalation (aerosol))	NOAEC	Equivalent to OECD 414	5.7 mg/m <sup>3</sup> air	13 days (gestation, daily)	Rabbit (female)	No effect		Experimental value
	LOAEC	Equivalent to OECD 414	19.3 mg/m <sup>3</sup> air	13 days (gestation, daily)	Rabbit	Local effects	Respiratory tract	Experimental value
Effects on fertility								Data waiving

## sodium etasulfate

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity (Oral (stomach tube))	NOEL	Equivalent to OECD 414	250 mg/kg bw/day	10 days (gestation, daily)	Rat	No effect		Read-across
Maternal toxicity (Oral (stomach tube))	NOEL	Equivalent to OECD 414	250 mg/kg bw/day	10 days (gestation, daily)	Rat	No effect		Read-across
Effects on fertility								Data waiving

## 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

### WHEEL CLEANER

No (test)data on the mixture available

## Chronic effects from short and long-term exposure

### WHEEL CLEANER

No effects known.

## 11.2. Information on other hazards

No evidence of endocrine disrupting properties

## SECTION 12: Ecological information

### 12.1. Toxicity

#### WHEEL CLEANER

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

# WHEEL CLEANER

## Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	US EPA	1.67 mg/l	96 h	Lepomis macrochirus	Static system	Fresh water	Experimental value
Acute toxicity crustacea	EC50	OECD 202	2.9 mg/l	48 h	Daphnia magna	Static system	Fresh water	Read-across; GLP
Toxicity algae and other aquatic plants	EC10	Equivalent to OECD 201	13.1 mg/l	96 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Read-across; Growth rate
	ErC50	Equivalent to OECD 201	235 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Read-across; Growth rate
Long-term toxicity fish	NOEC	Equivalent to OECD 210	0.23 mg/l	72 day(s)	Oncorhynchus mykiss	Flow-through system	Fresh water	Read-across
Long-term toxicity aquatic crustacea	NOEC	Equivalent to OECD 211	1.18 mg/l	21 day(s)	Daphnia magna	Flow-through system	Fresh water	Read-across

## phosphoric acid

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	TLm	Equivalent to OECD 203	138 ppm	96 h	Gambusia affinis	Static system	Fresh water	Experimental value; Pure substance
Acute toxicity crustacea	EC50	OECD 202	> 100 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Pure substance
Toxicity algae and other aquatic plants	ErC50	OECD 201	> 100 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; Pure substance
	NOEC	OECD 201	100 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; Pure substance

## sulphuric acid

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		16 mg/l - 28 mg/l	96 h	Lepomis macrochirus	Static system	Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea	EC50	OECD 202	> 100 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	ErC50	OECD 201	> 100 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; GLP

## sodium etasulfate

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	> 100 mg/l	96 h	Danio rerio	Semi-static system	Fresh water	Read-across; GLP
Acute toxicity crustacea	EC50	EU Method C.2	483 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	ErC50	EU Method C.3	> 511 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; GLP
	EC10	EU Method C.3	199 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; GLP
Long-term toxicity fish	NOEC		≥ 1.357 mg/l	42 day(s)	Pimephales promelas	Flow-through system	Fresh water	Read-across
Long-term toxicity aquatic crustacea	NOEC	OECD 211	1.4 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Read-across; GLP

## Conclusion

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

## **12.2. Persistence and degradability**

### Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

#### **Biodegradation water**

Method	Value	Duration	Value determination
Equivalent to OECD 301A	94 %; GLP	28 day(s)	Experimental value

#### **Biodegradation soil**

Method	Value	Duration	Value determination
	50 %	7 day(s) - 22 day(s)	Read-across

### isotridecanol, ethoxylated

#### **Biodegradation water**

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

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# WHEEL CLEANER

## sodium etasulfate

### Biodegradation water

Method	Value	Duration	Value determination
Equivalent to OECD 301B	89.3 %; GLP	28 day(s)	Experimental value

### Conclusion

#### Water

The surfactant(s) is/are biodegradable according to Regulation (EC) No 648/2004

## 12.3. Bioaccumulative potential

### WHEEL CLEANER

#### Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

#### BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		2 l/kg - 1000 l/kg		Pimephales promelas	Read-across

#### Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 123		2.2	23 °C	Experimental value

phosphoric acid

#### Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

isotridecanol, ethoxylated

#### BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		232.5 l/kg	54 h - 72 h	Pimephales promelas	Experimental value

#### Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 117		6.4	22 °C	Weight of evidence approach

sulphuric acid

#### Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

sodium etasulfate

#### Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 123		-0.248	25 °C	Experimental value

### Conclusion

Does not contain bioaccumulative component(s)

## 12.4. Mobility in soil

isotridecanol, ethoxylated

#### (log) Koc

Parameter	Method	Value	Value determination
log Koc		2.376 - 2.645	QSAR

sodium etasulfate

#### (log) Koc

Parameter	Method	Value	Value determination
log Koc		1.88 - 2	Read-across

### Conclusion

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

Contains component(s) that adsorb(s) into 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

### WHEEL CLEANER

#### Greenhouse gases

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)

# WHEEL CLEANER

## Water ecotoxicity pH

pH shift

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

## Water ecotoxicity pH

pH shift

isotridecanol, ethoxylated

## Groundwater

Groundwater pollutant

sulphuric acid

## Groundwater

Groundwater pollutant

## Water ecotoxicity pH

pH shift

## 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. 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)

#### 14.1. UN number

UN number	3264
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#### 14.2. UN proper shipping name

Proper shipping name	corrosive liquid, acidic, inorganic, n.o.s. (Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.; phosphoric acid)
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#### 14.3. Transport hazard class(es)

Hazard identification number	80
Class	8
Classification code	C1

#### 14.4. Packing group

Packing group	III
Labels	8

#### 14.5. Environmental hazards

Environmentally hazardous substance mark	no
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#### 14.6. Special precautions for user

Special provisions	274
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)
Specific mention	Classified corrosive on grounds of extreme pH value

### Rail (RID)

#### 14.1. UN number

UN number	3264
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#### 14.2. UN proper shipping name

Proper shipping name	corrosive liquid, acidic, inorganic, n.o.s. (Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.; phosphoric acid)
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#### 14.3. Transport hazard class(es)

Hazard identification number	80
Class	8
Classification code	C1

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# WHEEL CLEANER

<b>14.4. Packing group</b>	
Packing group	III
Labels	8
<b>14.5. Environmental hazards</b>	
Environmentally hazardous substance mark	no
<b>14.6. Special precautions for user</b>	
Special provisions	274
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)
Specific mention	Classified corrosive on grounds of extreme pH value

## Inland waterways (ADN)

<b>14.1. UN number/ID number</b>	
UN number/ID number	3264
<b>14.2. UN proper shipping name</b>	
Proper shipping name	corrosive liquid, acidic, inorganic, n.o.s. (Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.; phosphoric acid)
<b>14.3. Transport hazard class(es)</b>	
Class	8
Classification code	C1
<b>14.4. Packing group</b>	
Packing group	III
Labels	8
<b>14.5. Environmental hazards</b>	
Environmentally hazardous substance mark	no
<b>14.6. Special precautions for user</b>	
Special provisions	274
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)
Specific mention	Classified corrosive on grounds of extreme pH value

## Sea (IMDG/IMSBC)

<b>14.1. UN number</b>	
UN number	3264
<b>14.2. UN proper shipping name</b>	
Proper shipping name	corrosive liquid, acidic, inorganic, n.o.s. (Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.; phosphoric acid)
<b>14.3. Transport hazard class(es)</b>	
Class	8
<b>14.4. Packing group</b>	
Packing group	III
Labels	8
<b>14.5. Environmental hazards</b>	
Marine pollutant	-
Environmentally hazardous substance mark	no
<b>14.6. Special precautions for user</b>	
Special provisions	223
Special provisions	274
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)
Specific mention	Classified corrosive on grounds of extreme pH value
<b>14.7. Maritime transport in bulk according to IMO instruments</b>	
Annex II of MARPOL 73/78	Not applicable, based on available data

## Air (ICAO-TI/IATA-DGR)

<b>14.1. UN number/ID number</b>	
UN number/ID number	3264
<b>14.2. UN proper shipping name</b>	
Proper shipping name	corrosive liquid, acidic, inorganic, n.o.s. (Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.; phosphoric acid)
<b>14.3. Transport hazard class(es)</b>	
Class	8
<b>14.4. Packing group</b>	
Packing group	III
Labels	8
<b>14.5. Environmental hazards</b>	
Environmentally hazardous substance mark	no
<b>14.6. Special precautions for user</b>	
Special provisions	A3
Special provisions	A803
Specific mention	Classified corrosive on grounds of extreme pH value
Passenger and cargo transport	

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# WHEEL CLEANER

Limited quantities: maximum net quantity per packaging

1 L

## 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.

VOC content Directive 2010/75/EU

VOC content	Remark
0.0 g/l	

Directive 2012/18/EU (Seveso III)

Not subject to registration according to Directive 2012/18/EU (Seveso III)

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

5-15% anionic surfactants, <5% non-ionic surfactants

European drinking water standards (98/83/EC and 2020/2184)

sulphuric acid

Parameter	Parametric value	Note	Reference
Sulphate	250 mg/l		Listed in Annex I, Part C, of Directive (EU) 2020/2184 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
<ul style="list-style-type: none"> <li>· Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.</li> <li>· phosphoric acid</li> <li>· isotridecanol, ethoxylated</li> <li>· sulphuric acid</li> </ul>	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.
<ul style="list-style-type: none"> <li>· phosphoric acid</li> <li>· sulphuric acid</li> </ul>	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 due to effects only following exposure by inhalation — 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	Mixtures for tattooing purposes are subject to the restrictions of Regulation (EU) 2020/2081

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(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 this entry.

## National legislation Belgium

### WHEEL CLEANER

No data available

### sulphuric acid

Additional classification	Acide sulfurique (brume); C; La mention "C" signifie que l'agent en question relève du champ d'application de l'arrêté royal du 2 décembre 1993 concernant la protection des travailleurs contre les risques liés à l'exposition à des agents cancérigènes et mutagènes et reprotoxiques au travail.
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## National legislation The Netherlands

### WHEEL CLEANER

Waterbezwaarlijkheid	B (3); Algemene Beoordelingsmethodiek (ABM)
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### sulphuric acid

SZW - Lijst van kankerverwekkende stoffen	zwavelzuurlevels; Opgenomen in SZW-lijst van kankerverwekkende stoffen
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## National legislation France

### WHEEL CLEANER

No data available

## National legislation Germany

### WHEEL CLEANER

Lagerklasse (TRGS510)	8 A: Brennbare ätzende Gefahrstoffe
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WGK	2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017
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### Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

TA-Luft	5.2.5/I
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### phosphoric acid

TRGS900 - Risiko der Fruchtschädigung	Orthophosphorsäure; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden
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### isotridecanol, ethoxylated

TA-Luft	5.2.5/I
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### sulphuric acid

TRGS900 - Risiko der Fruchtschädigung	Schwefelsäure; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden
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### sodium etasulfate

TA-Luft	5.2.1
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## National legislation Austria

### WHEEL CLEANER

No data available

## National legislation United Kingdom

### WHEEL CLEANER

No data available

## Other relevant data

### WHEEL CLEANER

No data available

### sulphuric acid

IARC - classification	1; Strong-inorganic-acid mists containing sulfuric acid
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TLV - Carcinogen	Sulfuric acid; A2
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## 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:

- H290 May be corrosive to metals.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H412 Harmful to aquatic life with long lasting effects.

Reason for revision: 3; 8; 15

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# WHEEL CLEANER

(*)	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

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