

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WIRE ROPE SPRAY - 500 ML

Version 6.0      Revision Date: 07.08.2018      SDS Number: 772790-00009      Date of last issue: 23.05.2018  
Date of first issue: 11.06.2010

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

#### 1.1 Product identifier

Trade name : WIRE ROPE SPRAY - 500 ML  
Product code : 08931058

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

Use of the Sub-stance/Mixture : Anti-friction agent and lubricant  
Professional use product

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

Company : Adolf Wuerth GmbH & Co. KG  
Reinhold-Würth-Str. 12-17  
74653 Künzelsau  
  
Telephone : +49 794015 0  
  
Telefax : +49 794015 10 00  
  
E-mail address of person responsible for the SDS : prodsafe@wuerth.com

#### 1.4 Emergency telephone number

+49 (0)6132 – 84463

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1	H222: Extremely flammable aerosol. H229: Pressurised container: May burst if heated.
Skin corrosion, Sub-category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, Category 3	H336: May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through prolonged or repeated exposure.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word :

Danger

Hazard statements :

H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H336 May cause drowsiness or dizziness.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H411 Toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements :

EUH071 Corrosive to the respiratory tract.

Precautionary statements :

#### Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P260 Do not breathe spray.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

#### Response:

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.  
P391 Collect spillage.

#### Storage:

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Hazardous components which must be listed on the label:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane  
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics  
N-C16-18-alkyl-(evennumbered) C18 unsaturated) propane-1,3-diamine  
(4-Nonylphenoxy)acetic acid

### 2.3 Other hazards

None known.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WIRE ROPE SPRAY - 500 ML

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	Not Assigned 01-2119475514-35	Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 10 - < 20
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	64742-49-0 01-2119475515-33	Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 10 - < 20
N-C16-18-alkyl-(evennumbered) C18 unsaturated) propane-1,3-diamine	1219010-04-4 01-2119487014-41	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT RE 1; H372 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - < 2,5
(4-Nonylphenoxy)acetic acid	3115-49-9 221-486-2	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - < 2,5
Acetone	67-64-1 200-662-2 606-001-00-8	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 1 - < 10
n-Hexane	110-54-3 203-777-6 601-037-00-0	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Repr. 2; H361f STOT SE 3; H336 STOT RE 2; H373 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 0,25 - < 1

##### Alternative CAS Numbers for some regions

CAS-No.	Alternative CAS Number(s)
1219010-04-4	61791-55-7

For explanation of abbreviations see section 16.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WIRE ROPE SPRAY - 500 ML

Version 6.0      Revision Date: 07.08.2018      SDS Number: 772790-00009      Date of last issue: 23.05.2018  
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---

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
When symptoms persist or in all cases of doubt seek medical advice.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.
- If inhaled : If inhaled, remove to fresh air.  
If not breathing, give artificial respiration.  
If breathing is difficult, give oxygen.  
Get medical attention immediately.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.  
Get medical attention immediately.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.
- In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.  
If easy to do, remove contact lens, if worn.  
Get medical attention immediately.
- If swallowed : If swallowed, DO NOT induce vomiting.  
If vomiting occurs have person lean forward.  
Call a physician or poison control centre immediately.  
Rinse mouth thoroughly with water.  
Never give anything by mouth to an unconscious person.

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

- Risks : May cause an allergic skin reaction.  
Causes serious eye damage.  
May cause drowsiness or dizziness.  
May cause damage to organs through prolonged or repeated exposure.  
Corrosive to the respiratory tract.  
Causes severe burns.
- Causes digestive tract burns.

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

- Treatment : Treat symptomatically and supportively.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WIRE ROPE SPRAY - 500 ML

Version 6.0      Revision Date: 07.08.2018      SDS Number: 772790-00009      Date of last issue: 23.05.2018  
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---

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : None known.

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

Specific hazards during fire-fighting : Flash back possible over considerable distance.  
Vapours may form explosive mixtures with air.  
Exposure to combustion products may be a hazard to health.  
If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.

Hazardous combustion products : Carbon oxides  
Metal oxides  
Nitrogen oxides (NO<sub>x</sub>)

#### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.

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### SECTION 6: Accidental release measures

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

Personal precautions : Remove all sources of ignition.  
Use personal protective equipment.  
Follow safe handling advice and personal protective equipment recommendations.

#### 6.2 Environmental precautions

Environmental precautions : Discharge into the environment must be avoided.  
Prevent further leakage or spillage if safe to do so.  
Prevent spreading over a wide area (e.g. by containment or oil barriers).  
Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages cannot be contained.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WIRE ROPE SPRAY - 500 ML

Version	Revision Date:	SDS Number:	Date of last issue: 23.05.2018
6.0	07.08.2018	772790-00009	Date of first issue: 11.06.2010

---

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

Methods for cleaning up : Non-sparking tools should be used.  
Soak up with inert absorbent material.  
Suppress (knock down) gases/vapours/mists with a water spray jet.  
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.  
Clean up remaining materials from spill with suitable absorbent.  
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.  
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use with local exhaust ventilation.  
Use only in an area equipped with explosion-proof exhaust ventilation if advised by assessment of the local exposure potential

Advice on safe handling : Do not get on skin or clothing.  
Do not breathe vapours or spray mist.  
Do not swallow.  
Do not get in eyes.  
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment  
Keep container tightly closed.  
Keep away from heat and sources of ignition.  
Take precautionary measures against static discharges.  
Take care to prevent spills, waste and minimize release to the environment.  
  
Do not spray on an open flame or other ignition source.

Hygiene measures : Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WIRE ROPE SPRAY - 500 ML

Version 6.0      Revision Date: 07.08.2018      SDS Number: 772790-00009      Date of last issue: 23.05.2018  
Date of first issue: 11.06.2010

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

Requirements for storage areas and containers : Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Do not pierce or burn, even after use. Keep cool. Protect from sunlight.

Advice on common storage : Do not store with the following product types:  
Self-reactive substances and mixtures  
Organic peroxides  
Oxidizing agents  
Flammable solids  
Pyrophoric liquids  
Pyrophoric solids  
Self-heating substances and mixtures  
Substances and mixtures, which in contact with water, emit flammable gases  
Explosives  
Gases

Storage class (TRGS 510) : 2B, Aerosol cans and lighters

Recommended storage temperature : 10 - 40 °C

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Isobutane	75-28-5	AGW	1.000 ppm 2.400 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit: excursion factor (category)	4;(II)			
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	Not Assigned	AGW	700 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
Further information	Group exposure limit for hydrocarbon solvent mixtures, Commission for dangerous substances, See also No. 2.9 of the TRGS 900			
Hydrocarbons, C7,	64742-49-0	TWA	500 ppm	2000/39/EC

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WIRE ROPE SPRAY - 500 ML

Version  
6.0

Revision Date:  
07.08.2018

SDS Number:  
772790-00009

Date of last issue: 23.05.2018  
Date of first issue: 11.06.2010

n-alkanes, isoalkanes, cyclics			2.085 mg/m3	
Further information	Indicative			
		AGW	500 ppm 2.100 mg/m3	DE TRGS 900
Peak-limit: excursion factor (category)	1;(I)			
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
Propane	74-98-6	AGW	1.000 ppm 1.800 mg/m3	DE TRGS 900
Peak-limit: excursion factor (category)	4;(II)			
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
Naphtha (petroleum), hydrotreated heavy	64742-48-9	AGW	300 mg/m3	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
Further information	Group exposure limit for hydrocarbon solvent mixtures, Commission for dangerous substances, See also No. 2.9 of the TRGS 900			
Butane	106-97-8	AGW	1.000 ppm 2.400 mg/m3	DE TRGS 900
Peak-limit: excursion factor (category)	4;(II)			
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
Acetone	67-64-1	TWA	500 ppm 1.210 mg/m3	2000/39/EC
Further information	Indicative			
		AGW	500 ppm 1.200 mg/m3	DE TRGS 900
Peak-limit: excursion factor (category)	2;(I)			
Further information	Commission for dangerous substances, Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission), European Union (The EU has established a limit value: deviations in value and peak limit are possible), When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
n-Hexane	110-54-3	TWA	20 ppm 72 mg/m3	2006/15/EC
Further information	Indicative			
		AGW	50 ppm 180 mg/m3	DE TRGS 900
Peak-limit: excursion factor (category)	8;(II)			



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WIRE ROPE SPRAY - 500 ML

Version  
6.0

Revision Date:  
07.08.2018

SDS Number:  
772790-00009

Date of last issue: 23.05.2018  
Date of first issue: 11.06.2010

Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission), European Union (The EU has established a limit value: deviations in value and peak limit are possible), When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child
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### Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
Acetone	67-64-1	Acetone: 80 mg/l (Urine)	Immediately after exposure or after working hours	TRGS 903
n-Hexane	110-54-3	2,5-hexanedione plus 4,5-dihydroxy-2-hexanone: 5 mg/l (Urine)	Immediately after exposure or after working hours	TRGS 903

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	Workers	Inhalation	Long-term systemic effects	2085 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	300 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	447 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	149 mg/kg bw/day
(4-Nonylphenoxy)acetic acid	Consumers	Ingestion	Long-term systemic effects	149 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	1,76 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	17,6 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	0,5 mg/kg bw/day
Acetone	Consumers	Inhalation	Long-term systemic effects	0,43 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute systemic effects	4,3 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	0,25 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0,25 mg/kg bw/day
Acetone	Workers	Inhalation	Long-term systemic effects	1210 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	2420 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	186 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	200 mg/m <sup>3</sup>

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WIRE ROPE SPRAY - 500 ML

Version  
6.0

Revision Date:  
07.08.2018

SDS Number:  
772790-00009

Date of last issue: 23.05.2018  
Date of first issue: 11.06.2010

	Consumers	Skin contact	Long-term systemic effects	62 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	62 mg/kg bw/day
Naphtha (petroleum), hydrotreated heavy	Workers	Inhalation	Long-term systemic effects	1500 mg/m3
	Workers	Skin contact	Long-term systemic effects	300 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	900 mg/m3
	Consumers	Skin contact	Long-term systemic effects	300 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	300 mg/kg bw/day
N-C16-18-alkyl- (evennumbered) C18 unsaturated) propane-1,3-diamine	Workers	Inhalation	Long-term systemic effects	0,035 mg/m3
	Workers	Skin contact	Long-term systemic effects	0,01 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0,025 mg/m3
	Consumers	Skin contact	Long-term systemic effects	0,007 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0,007 mg/kg bw/day
n-Hexane	Workers	Skin contact	Long-term systemic effects	11 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	75 mg/m3
	Consumers	Skin contact	Long-term systemic effects	5,3 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	16 mg/m3
	Consumers	Ingestion	Long-term systemic effects	4 mg/kg bw/day

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
(4-Nonylphenoxy)acetic acid	Fresh water	0,001 mg/l
	Marine water	0 mg/l
	Intermittent use/release	0,009 mg/l
	Sewage treatment plant	1 mg/l
	Fresh water sediment	0,02 mg/kg
	Marine sediment	0,002 mg/kg
	Soil	0,004 mg/kg
Acetone	Fresh water	10,6 mg/l
	Marine water	1,06 mg/l
	Intermittent use/release	21 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	30,4 mg/kg dry weight (d.w.)
	Marine sediment	3,04 mg/kg dry

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WIRE ROPE SPRAY - 500 ML

Version 6.0      Revision Date: 07.08.2018      SDS Number: 772790-00009      Date of last issue: 23.05.2018  
Date of first issue: 11.06.2010

		weight (d.w.)
	Soil	29,5 mg/kg dry weight (d.w.)
N-C16-18-alkyl-(evennumbered) C18 unsaturated) propane-1,3-diamine	Fresh water	10 µg/l
	Marine water	1 µg/l
	Intermittent use/release	1,48 µg/l
	Sewage treatment plant	251 µg/l
	Fresh water sediment	1,72 mg/kg
	Marine sediment	0,172 mg/kg
	Soil	10 mg/kg
	Oral (Secondary Poisoning)	0,089 mg/kg food

### 8.2 Exposure controls

#### Engineering measures

Minimize workplace exposure concentrations.

Use only in an area equipped with explosion-proof exhaust ventilation if advised by assessment of the local exposure potential

Use with local exhaust ventilation.

#### Personal protective equipment

Eye protection : Wear the following personal protective equipment:  
Chemical resistant goggles must be worn.  
If splashes are likely to occur, wear:  
Face-shield

#### Hand protection

Material : Nitrile rubber  
Break through time : 480 min  
Glove thickness : 0,45 mm  
Directive : DIN EN 374

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.  
Wear the following personal protective equipment:  
Flame retardant antistatic protective clothing, unless assessment demonstrates that the risk of explosive atmospheres or flash fires is low  
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WIRE ROPE SPRAY - 500 ML

Version 6.0      Revision Date: 07.08.2018      SDS Number: 772790-00009      Date of last issue: 23.05.2018  
Date of first issue: 11.06.2010

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that exposures are within recommended exposure guidelines.

Filter type : Self-contained breathing apparatus

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### SECTION 9: Physical and chemical properties

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

Appearance : Aerosol containing a liquefied gas

Propellant : Isobutane, Propane, Butane

Colour : brown

Odour : solvent-like

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling range : -40 °C

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : Extremely flammable aerosol.

Upper explosion limit / Upper flammability limit : 9,4 %(V)

Lower explosion limit / Lower flammability limit : 0,6 %(V)

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Density : 0,778 g/cm<sup>3</sup> (20 °C)

Solubility(ies)  
Water solubility : insoluble

Partition coefficient: n-octanol/water : Not applicable

Auto-ignition temperature : No data available

Decomposition temperature : No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WIRE ROPE SPRAY - 500 ML

Version	Revision Date:	SDS Number:	Date of last issue: 23.05.2018
6.0	07.08.2018	772790-00009	Date of first issue: 11.06.2010

---

Viscosity  
Viscosity, kinematic : > 20,5 mm<sup>2</sup>/s (40 °C)

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

### 9.2 Other information

|| Particle size : Not applicable

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Not classified as a reactivity hazard.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Extremely flammable aerosol.  
Vapours may form explosive mixture with air.  
If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.  
Can react with strong oxidizing agents.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation  
Skin contact  
Ingestion  
Eye contact

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WIRE ROPE SPRAY - 500 ML

Version 6.0      Revision Date: 07.08.2018      SDS Number: 772790-00009      Date of last issue: 23.05.2018  
Date of first issue: 11.06.2010

---

### Components:

#### **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Acute inhalation toxicity : LC50 (Rat): > 5,61 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

#### **Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:**

Acute oral toxicity : LD50 (Rat): > 5.840 mg/kg  
Remarks: Based on data from similar materials  
Acute inhalation toxicity : LC50 (Rat): > 23,3 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Remarks: Based on data from similar materials  
Acute dermal toxicity : LD50 (Rat): > 2.800 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Based on data from similar materials

#### **N-C16-18-alkyl-(evennumbered) C18 unsaturated) propane-1,3-diamine:**

Acute oral toxicity : LD50 (Rat): 873 mg/kg  
Method: OECD Test Guideline 401  
Acute inhalation toxicity : Assessment: Corrosive to the respiratory tract.

#### **(4-Nonylphenoxy)acetic acid:**

Acute oral toxicity : LD50 (Rat): 1.674 mg/kg  
Method: OECD Test Guideline 401  
Acute inhalation toxicity : Assessment: Corrosive to the respiratory tract.

#### **Acetone:**

Acute oral toxicity : LD50 (Rat): 5.800 mg/kg  
Acute inhalation toxicity : LC50 (Rat): 76 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Acute dermal toxicity : LD50 (Rabbit): 7.426 mg/kg

#### **n-Hexane:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WIRE ROPE SPRAY - 500 ML

Version 6.0      Revision Date: 07.08.2018      SDS Number: 772790-00009      Date of last issue: 23.05.2018  
Date of first issue: 11.06.2010

Acute inhalation toxicity : LC50 (Rat): > 31,86 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

### Skin corrosion/irritation

Causes severe burns.

### Components:

#### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Skin irritation

#### Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:

Species : Rabbit  
Result : Skin irritation  
Remarks : Based on data from similar materials

#### N-C16-18-alkyl-(evennumbered) C18 unsaturated) propane-1,3-diamine:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Corrosive after 3 minutes to 1 hour of exposure

#### (4-Nonylphenoxy)acetic acid:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Corrosive after 3 minutes to 1 hour of exposure

#### Acetone:

Assessment : Repeated exposure may cause skin dryness or cracking.

#### n-Hexane:

Species : Rabbit  
Result : Skin irritation  
Remarks : Based on data from similar materials

### Serious eye damage/eye irritation

Causes serious eye damage.

### Components:

#### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:

Species : Rabbit

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WIRE ROPE SPRAY - 500 ML

Version 6.0      Revision Date: 07.08.2018      SDS Number: 772790-00009      Date of last issue: 23.05.2018  
Date of first issue: 11.06.2010

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|| Result : No eye irritation

### Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:

|| Species : Rabbit  
|| Result : No eye irritation  
|| Remarks : Based on data from similar materials

### N-C16-18-alkyl-(evennumbered) C18 unsaturated) propane-1,3-diamine:

|| Result : Irreversible effects on the eye  
|| Remarks : Based on skin corrosivity.

### (4-Nonylphenoxy)acetic acid:

|| Species : Rabbit  
|| Method : OECD Test Guideline 405  
|| Result : Irreversible effects on the eye

### Acetone:

|| Species : Rabbit  
|| Method : OECD Test Guideline 405  
|| Result : Irritation to eyes, reversing within 21 days

### n-Hexane:

|| Species : Rabbit  
|| Result : No eye irritation

### Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

#### Respiratory sensitisation

Not classified based on available information.

### Components:

#### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:

|| Test Type : Buehler Test  
|| Exposure routes : Skin contact  
|| Species : Guinea pig  
|| Result : negative

#### Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:

|| Test Type : Maximisation Test  
|| Exposure routes : Skin contact  
|| Species : Guinea pig  
|| Result : negative  
|| Remarks : Based on data from similar materials

#### (4-Nonylphenoxy)acetic acid:



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WIRE ROPE SPRAY - 500 ML

Version 6.0      Revision Date: 07.08.2018      SDS Number: 772790-00009      Date of last issue: 23.05.2018  
Date of first issue: 11.06.2010

---

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : positive

Assessment : Probability or evidence of high skin sensitisation rate in humans

### Acetone:

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Result : negative

### n-Hexane:

Test Type : Local lymph node assay (LLNA)  
Exposure routes : Skin contact  
Species : Mouse  
Result : negative

### Germ cell mutagenicity

Not classified based on available information.

### Components:

#### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Rat  
Application Route: inhalation (vapour)  
Method: OPPTS 870.5395  
Result: negative

#### Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Result: negative  
Remarks: Based on data from similar materials

Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative  
Remarks: Based on data from similar materials

Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative  
Remarks: Based on data from similar materials

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WIRE ROPE SPRAY - 500 ML

Version 6.0      Revision Date: 07.08.2018      SDS Number: 772790-00009      Date of last issue: 23.05.2018  
Date of first issue: 11.06.2010

### **N-C16-18-alkyl-(evennumbered) C18 unsaturated) propane-1,3-diamine:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative

### **(4-Nonylphenoxy)acetic acid:**

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo  
cytogenetic assay)  
Species: Hamster  
Application Route: Ingestion  
Result: negative

### **Acetone:**

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Result: negative

Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

Test Type: Chromosome aberration test in vitro  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo  
cytogenetic assay)  
Species: Mouse  
Application Route: Ingestion  
Result: negative

### **n-Hexane:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative

Genotoxicity in vivo : Test Type: Rodent dominant lethal test (germ cell) (in vivo)  
Species: Mouse  
Application Route: inhalation (vapour)  
Result: negative

Test Type: Mutagenicity (in vivo mammalian bone-marrow  
cytogenetic test, chromosomal analysis)  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative  
Remarks: Based on data from similar materials

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WIRE ROPE SPRAY - 500 ML

Version 6.0      Revision Date: 07.08.2018      SDS Number: 772790-00009      Date of last issue: 23.05.2018  
Date of first issue: 11.06.2010

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||

### **Carcinogenicity**

Not classified based on available information.

### **Components:**

#### **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:**

Species : Mouse  
Application Route : Skin contact  
Exposure time : 102 weeks  
Result : negative

#### **Acetone:**

Species : Mouse  
Application Route : Skin contact  
Exposure time : 424 days  
Result : negative

#### **n-Hexane:**

Species : Mouse  
Application Route : inhalation (vapour)  
Exposure time : 2 Years  
Method : OECD Test Guideline 451  
Result : negative  
Remarks : Based on data from similar materials

### **Reproductive toxicity**

Not classified based on available information.

### **Components:**

#### **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative

#### **Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative  
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Fertility/early embryonic development  
Species: Rat

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WIRE ROPE SPRAY - 500 ML

Version 6.0      Revision Date: 07.08.2018      SDS Number: 772790-00009      Date of last issue: 23.05.2018  
Date of first issue: 11.06.2010

Application Route: inhalation (vapour)  
Result: negative  
Remarks: Based on data from similar materials

### **(4-Nonylphenoxy)acetic acid:**

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 422  
Result: negative

Effects on foetal development : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 422  
Result: negative

### **Acetone:**

Effects on fertility : Test Type: One-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative

### **n-Hexane:**

Effects on fertility : Test Type: Fertility/early embryonic development  
Application Route: inhalation (vapour)  
Result: positive

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Mouse  
Application Route: inhalation (vapour)  
Result: negative

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

### **STOT - single exposure**

May cause drowsiness or dizziness.  
Corrosive to the respiratory tract.

### **Components:**

#### **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:**

Assessment : May cause drowsiness or dizziness.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WIRE ROPE SPRAY - 500 ML

Version 6.0      Revision Date: 07.08.2018      SDS Number: 772790-00009      Date of last issue: 23.05.2018  
Date of first issue: 11.06.2010

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### Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:

|| Assessment : May cause drowsiness or dizziness.

### Acetone:

|| Assessment : May cause drowsiness or dizziness.

### n-Hexane:

|| Assessment : May cause drowsiness or dizziness.

### STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

### Components:

#### N-C16-18-alkyl-(evennumbered) C18 unsaturated) propane-1,3-diamine:

|| Exposure routes : Ingestion  
|| Assessment : Shown to produce significant health effects in animals at concentrations of 10 mg/kg bw or less.

#### (4-Nonylphenoxy)acetic acid:

|| Exposure routes : Ingestion  
|| Assessment : No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

#### n-Hexane:

|| Exposure routes : inhalation (vapour)  
|| Target Organs : Central nervous system  
|| Assessment : May cause damage to organs through prolonged or repeated exposure.

### Repeated dose toxicity

### Components:

#### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:

|| Species : Rat  
|| NOAEL : > 20 mg/l  
|| Application Route : inhalation (vapour)  
|| Exposure time : 13 Weeks

#### Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:

|| Species : Rat  
|| NOAEL : 12,47 mg/l  
|| Application Route : Inhalation  
|| Exposure time : 90 Days  
|| Remarks : Based on data from similar materials

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WIRE ROPE SPRAY - 500 ML

Version 6.0      Revision Date: 07.08.2018      SDS Number: 772790-00009      Date of last issue: 23.05.2018  
Date of first issue: 11.06.2010

### **N-C16-18-alkyl-(evennumbered) C18 unsaturated) propane-1,3-diamine:**

Species : Rat  
NOAEL : 0,4 mg/kg  
LOAEL : 1,5 mg/kg  
Application Route : Ingestion  
Exposure time : 90 Days  
Method : OECD Test Guideline 408  
Remarks : Based on data from similar materials

### **(4-Nonylphenoxy)acetic acid:**

Species : Rat  
NOAEL : 60 mg/kg  
Application Route : Ingestion  
Exposure time : 43 - 56 Days  
Method : OECD Test Guideline 422

### **Acetone:**

Species : Rat  
NOAEL : 900 mg/kg  
LOAEL : 1.700 mg/kg  
Application Route : Ingestion  
Exposure time : 90 Days

Species : Rat  
NOAEL : 45 mg/l  
Application Route : inhalation (vapour)  
Exposure time : 8 Weeks

### **n-Hexane:**

Species : Mouse  
LOAEL : 1,76 mg/l  
Application Route : inhalation (vapour)  
Exposure time : 13 Weeks

Species : Rat, male  
NOAEL : 568 mg/kg  
LOAEL : 3.973 mg/kg  
Application Route : Ingestion  
Exposure time : 90 Days

### **Aspiration toxicity**

Not classified based on available information.

### **Components:**

#### **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WIRE ROPE SPRAY - 500 ML

Version 6.0      Revision Date: 07.08.2018      SDS Number: 772790-00009      Date of last issue: 23.05.2018  
Date of first issue: 11.06.2010

### Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:

|| The substance or mixture is known to cause human aspiration toxicity hazards or has to be re-garded as if it causes a human aspiration toxicity hazard.

### n-Hexane:

|| The substance or mixture is known to cause human aspiration toxicity hazards or has to be re-garded as if it causes a human aspiration toxicity hazard.

### Experience with human exposure

#### Components:

#### n-Hexane:

|| Inhalation : Target Organs: Central nervous system  
Symptoms: Central nervous system depression

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

#### Ecotoxicology Assessment

|| Acute aquatic toxicity : Toxic to aquatic life.

#### Components:

#### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:

|| Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): 8,2 mg/l  
Exposure time: 96 h  
Test substance: Water Accommodated Fraction

|| Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 4,5 mg/l  
Exposure time: 48 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

|| Toxicity to algae : EL50 (Pseudokirchneriella subcapitata (green algae)): 3,1 mg/l  
Exposure time: 72 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

|| NOELR (Pseudokirchneriella subcapitata (green algae)): 0,5 mg/l  
Exposure time: 72 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WIRE ROPE SPRAY - 500 ML

Version 6.0      Revision Date: 07.08.2018      SDS Number: 772790-00009      Date of last issue: 23.05.2018  
Date of first issue: 11.06.2010

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR: 2,6 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

### Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 13,4 mg/l  
Exposure time: 96 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 203  
Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 3 mg/l  
Exposure time: 48 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae : EL50 (Selenastrum capricornutum (green algae)): > 10 - 100 mg/l  
Exposure time: 72 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

NOELR (Selenastrum capricornutum (green algae)): 0,1 mg/l  
Exposure time: 72 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,17 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 211  
Remarks: Based on data from similar materials

### N-C16-18-alkyl-(evennumbered) C18 unsaturated) propane-1,3-diamine:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 0,01 - 0,1 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0,01 - 0,1 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 0,01 - 0,1 mg/l  
Exposure time: 72 h



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WIRE ROPE SPRAY - 500 ML

Version 6.0      Revision Date: 07.08.2018      SDS Number: 772790-00009      Date of last issue: 23.05.2018  
Date of first issue: 11.06.2010

		Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
		NOEC (Desmodesmus subspicatus (green algae)): > 0,01 - 0,1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
M-Factor (Acute aquatic toxicity)	: 10	
Toxicity to microorganisms	: EC50 : 68 mg/l Exposure time: 3 h Method: OECD Test Guideline 209	
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: > 0,001 - 0,01 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211 Remarks: Based on data from similar materials	
M-Factor (Chronic aquatic toxicity)	: 1	

### **(4-Nonylphenoxy)acetic acid:**

Toxicity to fish	: LC50 (Danio rerio (zebra fish)): 9 mg/l Exposure time: 96 h Method: OECD Test Guideline 203	
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 0,88 mg/l Exposure time: 48 h Method: OECD Test Guideline 202	
Toxicity to algae	: ErC50 (Pseudokirchneriella subcapitata (green algae)): 27,21 mg/l Exposure time: 72 h Method: OECD Test Guideline 201	
	: EC10 (Pseudokirchneriella subcapitata (green algae)): 18,83 mg/l Exposure time: 72 h Method: OECD Test Guideline 201	
M-Factor (Acute aquatic toxicity)	: 1	
Toxicity to microorganisms	: IC50 : >= 100 mg/l Exposure time: 3 h Method: OECD Test Guideline 209	
M-Factor (Chronic aquatic toxicity)	: 1	

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WIRE ROPE SPRAY - 500 ML

Version 6.0      Revision Date: 07.08.2018      SDS Number: 772790-00009      Date of last issue: 23.05.2018  
Date of first issue: 11.06.2010

||

### Acetone:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 5.540 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia pulex (Water flea)): 8.800 mg/l  
Exposure time: 48 h

Toxicity to algae : NOEC (Pseudokirchneriella subcapitata (green algae)): 7.000 mg/l  
Exposure time: 96 h

Toxicity to microorganisms : EC50 : 61.150 mg/l  
Exposure time: 30 min  
Method: ISO 8192

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: >= 79 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

### n-Hexane:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 2,5 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 3,88 mg/l  
Exposure time: 48 h  
Test substance: Water Accommodated Fraction

Toxicity to algae : EL50 (Pseudokirchneriella subcapitata (green algae)): 55 mg/l  
Exposure time: 72 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

NOEL (Pseudokirchneriella subcapitata (green algae)): 30 mg/l  
Exposure time: 72 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

## 12.2 Persistence and degradability

### Components:

#### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 77,05 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WIRE ROPE SPRAY - 500 ML

Version 6.0      Revision Date: 07.08.2018      SDS Number: 772790-00009      Date of last issue: 23.05.2018  
Date of first issue: 11.06.2010

### Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301F  
Remarks: Based on data from similar materials

### N-C16-18-alkyl-(evennumbered) C18 unsaturated) propane-1,3-diamine:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: > 60 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D  
Remarks: Based on data from similar materials

### (4-Nonylphenoxy)acetic acid:

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 46 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

### Acetone:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 91 %  
Exposure time: 28 d

### n-Hexane:

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301F  
Remarks: Based on data from similar materials

## 12.3 Bioaccumulative potential

### Components:

#### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:

Partition coefficient: n-octanol/water : log Pow: 4  
Remarks: Based on data from similar materials

#### Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:

Partition coefficient: n-octanol/water : log Pow: > 4  
Remarks: Based on data from similar materials

#### N-C16-18-alkyl-(evennumbered) C18 unsaturated) propane-1,3-diamine:

Partition coefficient: n-octanol/water : log Pow: 1,46

#### Acetone:

Partition coefficient: n-octanol/water : log Pow: -0,27 - -0,23

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WIRE ROPE SPRAY - 500 ML

Version 6.0      Revision Date: 07.08.2018      SDS Number: 772790-00009      Date of last issue: 23.05.2018  
Date of first issue: 11.06.2010

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### n-Hexane:

Partition coefficient: n-octanol/water : log Pow: 4

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

Not relevant

### 12.6 Other adverse effects

No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. If not otherwise specified: Dispose of as unused product. Please ensure aerosol cans are sprayed completely empty (including propellant)

Waste Code : The following Waste Codes are only suggestions:

used product  
160504, gases in pressure containers (including halons) containing dangerous substances

unused product  
160504, gases in pressure containers (including halons) containing dangerous substances

uncleaned packagings  
150110, packaging containing residues of or contaminated by dangerous substances

Acc. Packaging Ordinance properly emptied packaging:  
Properly emptied, non-contaminated packaging of non-hazardous products can be supplied to a system for the collection of sales packaging.

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WIRE ROPE SPRAY - 500 ML

Version 6.0      Revision Date: 07.08.2018      SDS Number: 772790-00009      Date of last issue: 23.05.2018  
Date of first issue: 11.06.2010

### SECTION 14: Transport information

#### 14.1 UN number

ADN	:	UN 1950
ADR	:	UN 1950
RID	:	UN 1950
IMDG	:	UN 1950
IATA	:	UN 1950 Not permitted for transport

#### 14.2 UN proper shipping name

ADN	:	AEROSOLS
ADR	:	AEROSOLS
RID	:	AEROSOLS
IMDG	:	AEROSOLS ((4-Nonylphenoxy)acetic acid, Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)
IATA	:	AEROSOLS, FLAMMABLE, CONTAINING SUBSTANCES IN CLASS 8, PACKING GROUP II Not permitted for transport

#### 14.3 Transport hazard class(es)

ADN	:	2
ADR	:	2
RID	:	2
IMDG	:	2.1
IATA	:	Not permitted for transport

#### 14.4 Packing group

ADN		
Packing group	:	Not assigned by regulation
Classification Code	:	5FC
Labels	:	2.1 (8)
ADR		
Packing group	:	Not assigned by regulation
Classification Code	:	5FC
Labels	:	2.1 (8)
Tunnel restriction code	:	(D)
RID		
Packing group	:	Not assigned by regulation
Classification Code	:	5FC
Hazard Identification Number	:	238
Labels	:	2.1 (8)
IMDG		

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WIRE ROPE SPRAY - 500 ML

Version 6.0      Revision Date: 07.08.2018      SDS Number: 772790-00009      Date of last issue: 23.05.2018  
Date of first issue: 11.06.2010

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Packing group : Not assigned by regulation  
Labels : 2.1 (8)  
EmS Code : F-D, S-U  
**IATA (Cargo)** : Not permitted for transport  
**IATA (Passenger)** : Not permitted for transport

### 14.5 Environmental hazards

**ADN**  
Environmentally hazardous : yes  
**ADR**  
Environmentally hazardous : yes  
**RID**  
Environmentally hazardous : yes  
**IMDG**  
Marine pollutant : yes

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks : Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable  
REACH - List of substances subject to authorisation (Annex XIV) : Not applicable  
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable  
Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable  
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable  
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WIRE ROPE SPRAY - 500 ML

Version 6.0	Revision Date: 07.08.2018	SDS Number: 772790-00009	Date of last issue: 23.05.2018 Date of first issue: 11.06.2010
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P3a	FLAMMABLE AEROSOLS
E2	ENVIRONMENTAL HAZARDS
34	Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams), (d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)
18	Liquefied extremely flammable gases (including LPG) and natural gas
Water contaminating class (Germany)	: WGK 2 obviously hazardous to water Classification according to AwSV, Annex 1 (5.2)
Volatile organic compounds	: Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 84,31 %, 604,5 g/l Remarks: VOC content excluding water

### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

Other information : Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

### Full text of H-Statements

H225	: Highly flammable liquid and vapour.
H302	: Harmful if swallowed.
H304	: May be fatal if swallowed and enters airways.
H314	: Causes severe skin burns and eye damage.
H315	: Causes skin irritation.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WIRE ROPE SPRAY - 500 ML

Version 6.0      Revision Date: 07.08.2018      SDS Number: 772790-00009      Date of last issue: 23.05.2018  
Date of first issue: 11.06.2010

- H317 : May cause an allergic skin reaction.
- H318 : Causes serious eye damage.
- H319 : Causes serious eye irritation.
- H336 : May cause drowsiness or dizziness.
- H361f : Suspected of damaging fertility.
- H372 : Causes damage to organs through prolonged or repeated exposure.
- H373 : May cause damage to organs through prolonged or repeated exposure.
- 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.

### Full text of other abbreviations

- Acute Tox. : Acute toxicity
- Aquatic Acute : Short-term (acute) aquatic hazard
- Aquatic Chronic : Long-term (chronic) aquatic hazard
- Asp. Tox. : Aspiration hazard
- Eye Dam. : Serious eye damage
- Eye Irrit. : Eye irritation
- Flam. Liq. : Flammable liquids
- Repr. : Reproductive toxicity
- Skin Corr. : Skin corrosion
- Skin Irrit. : Skin irritation
- Skin Sens. : Skin sensitisation
- STOT RE : Specific target organ toxicity - repeated exposure
- STOT SE : Specific target organ toxicity - single exposure
- 2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
- 2006/15/EC : Europe. Indicative occupational exposure limit values
- DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.
- TRGS 903 : TRGS 903 - Biological limit values
- 2000/39/EC / TWA : Limit Value - eight hours
- 2006/15/EC / TWA : Limit Value - eight hours
- DE TRGS 900 / AGW : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WIRE ROPE SPRAY - 500 ML

Version 6.0      Revision Date: 07.08.2018      SDS Number: 772790-00009      Date of last issue: 23.05.2018  
Date of first issue: 11.06.2010

Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

### Classification of the mixture:

Aerosol 1	H222, H229
Skin Corr. 1B	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
STOT SE 3	H336
STOT RE 2	H373
Aquatic Chronic 2	H411

### Classification procedure:

Based on product data or assessment
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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