

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RUSTSTOP QUATTRO - 400 ML

Version	Revision Date:	SDS Number:	Date of last issue: 28.11.2017
7.1	16.01.2018	509954-00007	Date of first issue: 11.06.2010

---

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

#### 1.1 Product identifier

Trade name : RUSTSTOP QUATTRO - 400 ML

Product code : 08932141

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

Use of the Sub-  
stance/Mixture : Paints

#### 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

---

### 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 irritation, Category 2	H315: Causes skin irritation.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Specific target organ toxicity - single exposure, Category 3	H336: May cause drowsiness or dizziness.
Specific target organ toxicity - single exposure, Category 3	H335: May cause respiratory irritation.
Chronic aquatic toxicity, Category 3	H412: Harmful to aquatic life with long lasting effects.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RUSTSTOP QUATTRO - 400 ML

Version 7.1      Revision Date: 16.01.2018      SDS Number: 509954-00007      Date of last issue: 28.11.2017  
Date of first issue: 11.06.2010

### 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.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H412 Harmful to aquatic life with long lasting effects.

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.  
P280 Wear 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.

#### 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:

Butan-1-ol  
Xylene  
Hydrocarbons, C9, aromatics

### 2.3 Other hazards

May displace oxygen and cause rapid suffocation.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RUSTSTOP QUATTRO - 400 ML

Version 7.1      Revision Date: 16.01.2018      SDS Number: 509954-00007      Date of last issue: 28.11.2017  
Date of first issue: 11.06.2010

Butan-1-ol	71-36-3 200-751-6 603-004-00-6	Flam. Liq. 3; H226 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H336 STOT SE 3; H335	>= 10 - < 20
Xylene	1330-20-7 215-535-7 601-022-00-9 01-2119488216-32	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 STOT RE 2; H373 Asp. Tox. 1; H304	>= 1 - < 10
Hydrocarbons, C9, aromatics	Not Assigned  649-356-00-4 01-2119455851-35	Flam. Liq. 3; H226 STOT SE 3; H336 STOT SE 3; H335 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 2,5 - < 10

For explanation of abbreviations see section 16.

### 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.  
Get medical attention if symptoms occur.
- 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.  
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.  
Get medical attention if symptoms occur.  
Rinse mouth thoroughly with water.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RUSTSTOP QUATTRO - 400 ML

Version	Revision Date:	SDS Number:	Date of last issue: 28.11.2017
7.1	16.01.2018	509954-00007	Date of first issue: 11.06.2010

---

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

Risks : Causes skin irritation.  
Causes serious eye damage.  
May cause respiratory irritation.  
May cause drowsiness or dizziness.

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

Treatment : Treat symptomatically and supportively.

---

## 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  
Sulphur oxides

### 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.

---

## SECTION 6: Accidental release measures

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

Personal precautions : Evacuate personnel to safe areas.  
Remove all sources of ignition.

---

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RUSTSTOP QUATTRO - 400 ML

Version	Revision Date:	SDS Number:	Date of last issue: 28.11.2017
7.1	16.01.2018	509954-00007	Date of first issue: 11.06.2010

---

Ventilate the area.  
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.

### 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.

---

## 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 spray on an open flame or other ignition source.

Do not get on skin or clothing.  
Do not breathe vapours or spray mist.  
Do not swallow.  
Do not get in eyes.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RUSTSTOP QUATTRO - 400 ML

Version 7.1      Revision Date: 16.01.2018      SDS Number: 509954-00007      Date of last issue: 28.11.2017  
Date of first issue: 11.06.2010

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.

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.

### 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

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

### 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
Propane	74-98-6	AGW	1.000 ppm 1.800 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).			
Butane	106-97-8	AGW	1.000 ppm	DE TRGS

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

**RUSTSTOP QUATTRO - 400 ML**

Version 7.1      Revision Date: 16.01.2018      SDS Number: 509954-00007      Date of last issue: 28.11.2017  
 Date of first issue: 11.06.2010

			2.400 mg/m3	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).			
Butan-1-ol	71-36-3	AGW	100 ppm 310 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)., When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
Barium sulfate	7727-43-7	AGW (Inhalable fraction)	10 mg/m3	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
Further information	General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values., Commission for dangerous substances, Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
		AGW (Alveolate fraction)	1,25 mg/m3	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
Further information	General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values., Commission for dangerous substances, Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
Xylene	1330-20-7	TWA	50 ppm 221 mg/m3	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	100 ppm 442 mg/m3	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		AGW	100 ppm 440 mg/m3	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
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), Skin absorption			
Hydrocarbons, C9, aromatics	Not Assigned	AGW	100 mg/m3	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RUSTSTOP QUATTRO - 400 ML

Version 7.1      Revision Date: 16.01.2018      SDS Number: 509954-00007      Date of last issue: 28.11.2017  
Date of first issue: 11.06.2010

Further information	Group exposure limit for hydrocarbon solvent mixtures, Commission for dangerous substances, See also No. 2.9 of the TRGS 900
---------------------	--

### Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
Butan-1-ol	71-36-3	1-butanol: 2 mg/g Creatinine (Urine)	Before next shift	TRGS 903
		1-butanol: 10 mg/g Creatinine (Urine)	Immediately after exposure or after working hours	TRGS 903
Xylene	1330-20-7	xylene: 1,5 mg/l (Blood)	Immediately after exposure or after working hours	TRGS 903
		methylhippuric acid (all isomers): 2 g/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
Xylene	Workers	Inhalation	Acute systemic effects	289 mg/m3
	Workers	Inhalation	Acute local effects	289 mg/m3
	Workers	Skin contact	Long-term systemic effects	180 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	77 mg/m3
	Consumers	Inhalation	Acute systemic effects	174 mg/m3
	Consumers	Inhalation	Acute local effects	174 mg/m3
	Consumers	Skin contact	Long-term systemic effects	108 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	14,8 mg/m3
	Consumers	Ingestion	Long-term systemic effects	1,6 mg/kg bw/day
Butan-1-ol	Workers	Inhalation	Long-term local effects	310 mg/m3
	Consumers	Ingestion	Long-term systemic effects	3,125 mg/kg bw/day
	Consumers	Inhalation	Long-term local effects	55 mg/m3
Barium sulfate	Workers	Inhalation	Long-term local effects	10 mg/m3
	Workers	Inhalation	Long-term systemic effects	10 mg/m3
	Consumers	Inhalation	Long-term systemic effects	10 mg/m3
	Consumers	Ingestion	Long-term systemic	13000 mg/kg



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RUSTSTOP QUATTRO - 400 ML

Version 7.1      Revision Date: 16.01.2018      SDS Number: 509954-00007      Date of last issue: 28.11.2017  
Date of first issue: 11.06.2010

			effects	bw/day
--	--	--	---------	--------

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

Substance name	Environmental Compartment	Value
Xylene	Fresh water	0,327 mg/l
	Marine water	0,327 mg/l
	Intermittent use/release	0,327 mg/l
	Sewage treatment plant	6,58 mg/l
	Fresh water sediment	12,46 mg/kg
	Marine sediment	12,46 mg/kg
	Soil	2,31 mg/kg
Butan-1-ol	Fresh water	0,082 mg/l
	Marine water	0,008 mg/l
	Intermittent use/release	2,25 mg/l
	Sewage treatment plant	2476 mg/l
	Fresh water sediment	0,178 mg/kg
	Marine sediment	0,018 mg/kg
	Soil	0,015 mg/kg
Barium sulfate	Fresh water	227,8 mg/l
	Sewage treatment plant	50,1 mg/l
	Soil	707,7 mg/kg
	Fresh water sediment	792,7 mg/kg

## 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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RUSTSTOP QUATTRO - 400 ML

Version	Revision Date:	SDS Number:	Date of last issue: 28.11.2017
7.1	16.01.2018	509954-00007	Date of first issue: 11.06.2010

Break through time : > 30 min  
Glove thickness : 0,4 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 that exposures are within recommended exposure guidelines.

Filter type : Self-contained breathing apparatus

### SECTION 9: Physical and chemical properties

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

Appearance : aerosol  
Propellant : Propane, Butane  
Colour : coloured  
Odour : aromatic  
Odour Threshold : No data available  
pH : No data available  
Melting point/freezing point : No data available  
Initial boiling point and boiling range : -24 °C  
Flash point : Not applicable  
Evaporation rate : Not applicable

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RUSTSTOP QUATTRO - 400 ML

Version	Revision Date:	SDS Number:	Date of last issue: 28.11.2017
7.1	16.01.2018	509954-00007	Date of first issue: 11.06.2010

Flammability (solid, gas)	:	Extremely flammable aerosol.
Upper explosion limit / Upper flammability limit	:	18,6 %(V)
Lower explosion limit / Lower flammability limit	:	1,1 %(V)
Vapour pressure	:	5.200 hPa (20 °C)
Relative vapour density	:	Not applicable
Density	:	0,8 g/cm <sup>3</sup> (20 °C)
Solubility(ies)		
Water solubility	:	immiscible, partly miscible
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	235 °C
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	800 mPa.s (40 °C)
Viscosity, kinematic	:	Not applicable
Flow time	:	20 s at 20 °C Method: DIN 53211
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

### 9.2 Other information

Particle size	:	Not applicable
---------------	---	----------------

## 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.
---------------------	---	--

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RUSTSTOP QUATTRO - 400 ML

Version	Revision Date:	SDS Number:	Date of last issue: 28.11.2017
7.1	16.01.2018	509954-00007	Date of first issue: 11.06.2010

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.

## 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

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

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

#### Components:

##### **Butan-1-ol:**

Acute oral toxicity : LD50 (Rat): 790 mg/kg

Acute inhalation toxicity : LC0 (Rat): > 17,76 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): 3.430 mg/kg

##### **Xylene:**

Acute oral toxicity : LD50 (Rat): 4.300 mg/kg  
Method: Directive 67/548/EEC, Annex V, B.1.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RUSTSTOP QUATTRO - 400 ML

Version	Revision Date:	SDS Number:	Date of last issue: 28.11.2017
7.1	16.01.2018	509954-00007	Date of first issue: 11.06.2010

---

Acute inhalation toxicity : LC50 (Rat): 27,5 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
  
Acute toxicity estimate: 11 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Expert judgement  
Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

Acute dermal toxicity : Acute toxicity estimate: 1.100 mg/kg  
Method: Expert judgement  
Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

### Hydrocarbons, C9, aromatics:

Acute oral toxicity : LD50 (Rat, female): 3.492 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 6,193 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 3.160 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

### Skin corrosion/irritation

Causes skin irritation.

### Components:

#### Butan-1-ol:

Species: Rabbit  
Result: Skin irritation

#### Xylene:

Species: Rabbit  
Result: Skin irritation

### Hydrocarbons, C9, aromatics:

Assessment: Repeated exposure may cause skin dryness or cracking.

### Serious eye damage/eye irritation

Causes serious eye damage.

### Components:

#### Butan-1-ol:

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RUSTSTOP QUATTRO - 400 ML

Version	Revision Date:	SDS Number:	Date of last issue: 28.11.2017
7.1	16.01.2018	509954-00007	Date of first issue: 11.06.2010

---

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

### **Xylene:**

Species: Rabbit  
Result: Irritation to eyes, reversing within 7 days

### **Hydrocarbons, C9, aromatics:**

Species: Rabbit  
Result: No eye irritation

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

### **Components:**

#### **Butan-1-ol:**

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

### **Xylene:**

Test Type: Local lymph node assay (LLNA)  
Exposure routes: Skin contact  
Species: Mouse  
Method: OECD Test Guideline 429  
Result: negative

### **Hydrocarbons, C9, aromatics:**

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

### **Germ cell mutagenicity**

Not classified based on available information.

### **Components:**

#### **Butan-1-ol:**

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RUSTSTOP QUATTRO - 400 ML

Version	Revision Date:	SDS Number:	Date of last issue: 28.11.2017
7.1	16.01.2018	509954-00007	Date of first issue: 11.06.2010

Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Application Route: Ingestion  
Method: OECD Test Guideline 474  
Result: negative

### Xylene:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Result: negative

Test Type: In vitro sister chromatid exchange assay in mammalian cells  
Result: negative

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

### Hydrocarbons, C9, aromatics:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Result: negative

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative

Germ cell mutagenicity- Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

### Carcinogenicity

Not classified based on available information.

### Components:

#### Xylene:

Species: Rat  
Application Route: Ingestion  
Exposure time: 103 weeks  
Result: negative

#### Hydrocarbons, C9, aromatics:

Carcinogenicity - Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RUSTSTOP QUATTRO - 400 ML

Version	Revision Date:	SDS Number:	Date of last issue: 28.11.2017
7.1	16.01.2018	509954-00007	Date of first issue: 11.06.2010

---

### Reproductive toxicity

Not classified based on available information.

### Components:

#### Butan-1-ol:

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: inhalation (vapour)  
Method: OECD Test Guideline 416  
Result: negative  
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Ingestion  
Result: negative

#### Xylene:

Effects on fertility : Test Type: One-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, C9, aromatics:

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

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

### STOT - single exposure

May cause respiratory irritation.  
May cause drowsiness or dizziness.

### Components:

#### Butan-1-ol:

Assessment: May cause respiratory irritation., May cause drowsiness or dizziness.

#### Xylene:

Assessment: May cause respiratory irritation.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RUSTSTOP QUATTRO - 400 ML

Version	Revision Date:	SDS Number:	Date of last issue: 28.11.2017
7.1	16.01.2018	509954-00007	Date of first issue: 11.06.2010

---

### Hydrocarbons, C9, aromatics:

Assessment: May cause drowsiness or dizziness.

Assessment: May cause respiratory irritation.

### STOT - repeated exposure

Not classified based on available information.

### Components:

#### Xylene:

Exposure routes: inhalation (vapour)

Target Organs: Central nervous system, Liver, Kidney

Assessment: Shown to produce significant health effects in animals at concentrations of >0.2 to 1 mg/l/6h/d.

### Repeated dose toxicity

### Components:

#### Butan-1-ol:

Species: Rat

NOAEL: 125 mg/kg

Application Route: Ingestion

Exposure time: 13 Weeks

#### Xylene:

Species: Rat

NOAEL: 4,35 mg/l

Application Route: inhalation (vapour)

Exposure time: 90 Days

### Hydrocarbons, C9, aromatics:

Species: Rat, female

NOAEL: 900 mg/m<sup>3</sup>

Application Route: inhalation (vapour)

Exposure time: 12 Months

Remarks: Based on data from similar materials

### Aspiration toxicity

Not classified based on available information.

### Components:

#### Xylene:

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.

### Hydrocarbons, C9, aromatics:

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



## RUSTSTOP QUATTRO - 400 ML

Version	Revision Date:	SDS Number:	Date of last issue: 28.11.2017
7.1	16.01.2018	509954-00007	Date of first issue: 11.06.2010

### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Components:

##### **Butan-1-ol:**

- |  |   |   |
|--|---|---|
| Toxicity to fish   | : | LC50 (Pimephales promelas (fathead minnow)): 1.376 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203         |
| Toxicity to daphnia and other aquatic invertebrates                    | : | EC50 (Daphnia magna (Water flea)): 1.328 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202                   |
| Toxicity to algae  | : | ErC50 (Pseudokirchneriella subcapitata (green algae)): 225 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 201 |
| Toxicity to microorganisms   | : | EC50 (Pseudomonas putida): 4.390 mg/l<br>Exposure time: 17 h  |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC: 4,1 mg/l<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea)<br>Method: OECD Test Guideline 211           |

##### **Xylene:**

- |   |   |  |
|---|---|--|
| Toxicity to fish                                    | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 2,6 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203<br>Remarks: Based on data from similar materials  |
| Toxicity to daphnia and other aquatic invertebrates | : | IC50 (Daphnia magna (Water flea)): 1 mg/l<br>Exposure time: 24 h<br>Method: OECD Test Guideline 202<br>Remarks: Based on data from similar materials   |
| Toxicity to algae                                   | : | EC10 (Pseudokirchneriella subcapitata (green algae)): 1,9 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br>Remarks: Based on data from similar materials<br><br>ErC50 (Pseudokirchneriella subcapitata (green algae)): 4,36 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br>Remarks: Based on data from similar materials |

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RUSTSTOP QUATTRO - 400 ML

Version	Revision Date:	SDS Number:	Date of last issue: 28.11.2017
7.1	16.01.2018	509954-00007	Date of first issue: 11.06.2010

Toxicity to microorganisms : EC50 : > 157 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209  
Remarks: Based on data from similar materials

Toxicity to fish (Chronic toxicity) : NOEC: > 1,3 mg/l  
Exposure time: 56 d  
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: 1,91 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211  
Remarks: Based on data from similar materials

### Hydrocarbons, C9, aromatics:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 9,2 mg/l  
Exposure time: 96 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 3,2 mg/l  
Exposure time: 48 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 202

Toxicity to algae : EL50 (Pseudokirchneriella subcapitata (green algae)): 7,9 mg/l  
Exposure time: 72 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 201

NOELR (Pseudokirchneriella subcapitata (green algae)): 0,22 mg/l  
Exposure time: 72 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 : > 99 mg/l  
Exposure time: 10 min

## 12.2 Persistence and degradability

### Components:

#### **Butan-1-ol:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 92 %  
Exposure time: 20 d

#### **Xylene:**

Biodegradability : Result: Readily biodegradable.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RUSTSTOP QUATTRO - 400 ML

Version	Revision Date:	SDS Number:	Date of last issue: 28.11.2017
7.1	16.01.2018	509954-00007	Date of first issue: 11.06.2010

Biodegradation: 87,8 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
Remarks: Based on data from similar materials

### Hydrocarbons, C9, aromatics:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 78 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

### 12.3 Bioaccumulative potential

#### Components:

##### Butan-1-ol:

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

##### Xylene:

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)  
Bioconcentration factor (BCF): 5,4 - 25,9

Partition coefficient: n-octanol/water : log Pow: 3,12 - 3,2

### Hydrocarbons, C9, aromatics:

Partition coefficient: n-octanol/water : log Pow: 3,7 - 4,5

### 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

---

## 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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RUSTSTOP QUATTRO - 400 ML

Version	Revision Date:	SDS Number:	Date of last issue: 28.11.2017
7.1	16.01.2018	509954-00007	Date of first issue: 11.06.2010

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:

unused product  
160000, WASTES NOT OTHERWISE SPECIFIED IN THE LIST  
160500, gases in pressure containers and discarded chemicals  
160504, gases in pressure containers (including halons) containing dangerous substances

used product  
160000, WASTES NOT OTHERWISE SPECIFIED IN THE LIST  
160500, gases in pressure containers and discarded chemicals  
160504, gases in pressure containers (including halons) containing dangerous substances

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

### SECTION 14: Transport information

#### 14.1 UN number

ADN	: UN 1950
ADR	: UN 1950
RID	: UN 1950
IMDG	: UN 1950
IATA	: UN 1950

#### 14.2 UN proper shipping name

ADN	: AEROSOLS
ADR	: AEROSOLS
RID	: AEROSOLS
IMDG	: AEROSOLS
IATA	: Aerosols, flammable

#### 14.3 Transport hazard class(es)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RUSTSTOP QUATTRO - 400 ML

Version	Revision Date:	SDS Number:	Date of last issue: 28.11.2017
7.1	16.01.2018	509954-00007	Date of first issue: 11.06.2010

<b>ADN</b>	:	2
<b>ADR</b>	:	2
<b>RID</b>	:	2
<b>IMDG</b>	:	2.1
<b>IATA</b>	:	2.1

### 14.4 Packing group

<b>ADN</b>	
Packing group	: Not assigned by regulation
Classification Code	: 5F
Labels	: 2.1

<b>ADR</b>	
Packing group	: Not assigned by regulation
Classification Code	: 5F
Labels	: 2.1
Tunnel restriction code	: (D)

<b>RID</b>	
Packing group	: Not assigned by regulation
Classification Code	: 5F
Hazard Identification Number	: 23
Labels	: 2.1

<b>IMDG</b>	
Packing group	: Not assigned by regulation
Labels	: 2.1
EmS Code	: F-D, S-U

<b>IATA (Cargo)</b>	
Packing instruction (cargo aircraft)	: 203
Packing instruction (LQ)	: Y203
Packing group	: Not assigned by regulation
Labels	: Flammable Gas

<b>IATA (Passenger)</b>	
Packing instruction (passenger aircraft)	: 203
Packing instruction (LQ)	: Y203
Packing group	: Not assigned by regulation
Labels	: Flammable Gas

### 14.5 Environmental hazards

<b>ADN</b>	
Environmentally hazardous	: no

<b>ADR</b>	
Environmentally hazardous	: no

<b>RID</b>	
Environmentally hazardous	: no

<b>IMDG</b>	
Marine pollutant	: no

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RUSTSTOP QUATTRO - 400 ML

Version	Revision Date:	SDS Number:	Date of last issue: 28.11.2017
7.1	16.01.2018	509954-00007	Date of first issue: 11.06.2010

### 14.6 Special precautions for user

Not applicable

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

Remarks : Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : 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

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

		Quantity 1	Quantity 2
P3a	FLAMMABLE AEROSOLS	150 t	500 t
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)	2.500 t	25.000 t
18	Liquefied extremely flammable gases (including LPG) and natural gas	50 t	200 t

Water contaminating class : WGK 2 significantly water endangering

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RUSTSTOP QUATTRO - 400 ML

Version	Revision Date:	SDS Number:	Date of last issue: 28.11.2017
7.1	16.01.2018	509954-00007	Date of first issue: 11.06.2010

(Germany) Classification according to AwSV, Annex 1 (5.2)

Volatile organic compounds : Directive 2004/42/EC  
VOC content in g/l: 673 g/l  
Product sub-category: Special finishes  
Coatings: All types  
VOC limit level 1 (2007): 840 g/l

Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 673 g/l  
Remarks: VOC content excluding water

### Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

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

### Full text of H-Statements

H226	: Flammable liquid and vapour.
H302	: Harmful if swallowed.
H304	: May be fatal if swallowed and enters airways.
H312	: Harmful in contact with skin.
H315	: Causes skin irritation.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H335	: May cause respiratory irritation.
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.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Chronic	: Chronic aquatic toxicity
Asp. Tox.	: Aspiration hazard
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Skin Irrit.	: Skin irritation
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



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RUSTSTOP QUATTRO - 400 ML

Version	Revision Date:	SDS Number:	Date of last issue: 28.11.2017
7.1	16.01.2018	509954-00007	Date of first issue: 11.06.2010

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
2000/39/EC / STEL	:	Short term exposure limit
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 Organization 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 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 Irrit. 2	H315
Eye Dam. 1	H318
STOT SE 3	H336
STOT SE 3	H335
Aquatic Chronic 3	H412

### Classification procedure:

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RUSTSTOP QUATTRO - 400 ML

Version	Revision Date:	SDS Number:	Date of last issue: 28.11.2017
7.1	16.01.2018	509954-00007	Date of first issue: 11.06.2010

---

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

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.

DE / EN