

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## SPRAY CONTACT ADHESIVE POSTFORMING - 12,3 KG

Version	Revision Date:	SDS Number:	Date of last issue: 25.11.2016
5.2	17.03.2017	845983-00003	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 : SPRAY CONTACT ADHESIVE POSTFORMING - 12,3 KG

Product code : 0893100015

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

Use of the Sub-  
stance/Mixture : Adhesives

#### 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

Giftnotrufzentrale Berlin +49 30 30686 790. Gesellschaft (07:00 – 18:00 Uhr) +49 794015 2552

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Gases under pressure, Compressed gas	H280: Contains gas under pressure; may explode if heated.
Flammable liquids, Category 1	H224: Extremely flammable liquid and vapour.
Eye irritation, Category 2	H319: Causes serious eye irritation.
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.

#### 2.2 Label elements

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

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Hazard pictograms :



Signal word : Danger

Hazard statements :  
H224 Extremely flammable liquid and vapour.  
H280 Contains gas under pressure; may explode if heated.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

Supplemental Hazard Statements : EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements :  
**Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing spray.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Storage:**  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P410 + P403 Protect from sunlight. Store in a well-ventilated place.

Hazardous components which must be listed on the label:

Methyl acetate

Rosin, oligomeric reaction products with isophthalic acid and pentaerythritol

### 2.3 Other hazards

Vapours may form explosive mixture with air.  
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)
Methyl acetate	79-20-9 201-185-2 607-021-00-X	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 70 - < 90
Rosin, oligomeric reaction prod-	68515-02-6	Skin Sens. 1B; H317	>= 10 - < 20

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ucts with isophthalic acid and pentaerythritol	500-219-6	Aquatic Chronic 4; H413	
n-Hexane	110-54-3 203-777-6 601-037-00-0	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Repr. 2; H361fd STOT SE 3; H336 STOT RE 2; H373 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	$\geq 1 - < 2,5$
Methanol	67-56-1 200-659-6 603-001-00-X	Flam. Liq. 2; H225 Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 STOT SE 1; H370	$\geq 0,1 - < 1$

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.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water.  
Remove 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.
- If swallowed : If swallowed, DO NOT induce vomiting.  
Get medical attention if symptoms occur.  
Rinse mouth thoroughly with water.

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

- Risks : May cause an allergic skin reaction.  
Causes serious eye irritation.

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May cause drowsiness or dizziness.  
Repeated exposure may cause skin dryness or cracking.

### 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 : High volume water jet

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

Specific hazards during fire-fighting : Do not use a solid water stream as it may scatter and spread fire.  
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  
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.  
Fight fire remotely due to the risk of explosion.  
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 : Remove all sources of ignition.  
Ventilate the area.  
Use personal protective equipment.

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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 : Use equipment rated for cylinder pressure. Use a backflow preventative device in piping. Close valve after each use and when empty.

Local/Total ventilation : Use with local exhaust ventilation.  
Use only in an area equipped with explosion proof exhaust ventilation.

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.  
Non-sparking tools should be used.

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Keep container tightly closed.  
Prevent backflow into the gas tank.  
Open the valves slowly to prevent pressure surges.  
Close valve after each use and when empty. Do NOT change or force fit connections.  
Prevent the intrusion of water into the gas tank.  
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 : Keep in properly labelled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Keep away from direct sunlight. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.

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

Storage class (TRGS 510) : 2A, Gases

Storage period : 15 Months

### 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	Control parameters	Basis
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		of exposure)		
Methyl acetate	79-20-9	AGW	200 ppm 610 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)., 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)			
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			
Methanol	67-56-1	TWA	200 ppm 260 mg/m3	2006/15/EC
Further information	Indicative, Identifies the possibility of significant uptake through the skin			
		AGW	200 ppm 270 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)., European Union (The EU has established a limit value: deviations in value and peak limit are possible), Skin absorption, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			

### Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
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
Methanol	67-56-1	Methanol: 30 mg/l (Urine)	Immediately after exposure or after working hours, In case of long-term exposure: after more than one shift	TRGS 903

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

Substance name	End Use	Exposure routes	Potential health effects	Value
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
Methyl acetate	Workers	Inhalation	Long-term systemic effects	610 mg/m3
	Workers	Inhalation	Long-term local effects	305 mg/m3
	Workers	Skin contact	Long-term systemic effects	88 mg/kg bw/day
	Consumers	Inhalation	Acute local effects	131 mg/m3
	Consumers	Inhalation	Long-term local effects	152 mg/m3
	Consumers	Skin contact	Long-term systemic effects	44 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	44 mg/kg bw/day
Methanol	Workers	Inhalation	Long-term systemic effects	260 mg/m3
	Workers	Inhalation	Acute systemic effects	260 mg/m3
	Workers	Inhalation	Long-term local effects	260 mg/m3
	Workers	Inhalation	Acute local effects	260 mg/m3
	Workers	Skin contact	Long-term systemic effects	40 mg/kg bw/day
	Workers	Skin contact	Acute systemic effects	40 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	50 mg/m3
	Consumers	Inhalation	Acute systemic effects	50 mg/m3
	Consumers	Inhalation	Long-term local effects	50 mg/m3
	Consumers	Inhalation	Acute local effects	50 mg/m3
	Consumers	Skin contact	Long-term systemic effects	8 mg/kg bw/day
	Consumers	Skin contact	Acute systemic effects	8 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	8 mg/kg bw/day
	Consumers	Ingestion	Acute systemic effects	8 mg/kg



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

Substance name	Environmental Compartment	Value
Methyl acetate	Fresh water	0,12 mg/l
	Marine water	0,012 mg/l
	Intermittent use/release	1,2 mg/l
	Sewage treatment plant	600 mg/l
	Fresh water sediment	0,128 mg/kg
	Marine sediment	0,0128 mg/kg
	Soil	0,0416 mg/kg
	Oral (Secondary Poisoning)	20,4 mg/kg food
Methanol	Fresh water	20,8 mg/l
	Marine water	2,08 mg/l
	Intermittent use/release	1540 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	77 mg/kg
	Marine sediment	7,7 mg/kg
	Soil	100 mg/kg

## 8.2 Exposure controls

### Engineering measures

Minimize workplace exposure concentrations.  
Use only in an area equipped with explosion proof exhaust ventilation.  
Use with local exhaust ventilation.

### Personal protective equipment

Eye protection : Wear the following personal protective equipment:  
Safety goggles

Hand protection  
Material : butyl-rubber  
Break through time :  $\geq 240$  min  
Glove thickness : 0,4 - 0,6 mm  
Protective index : Class 5

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.  
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

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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	: Compressed gas, liquid
Propellant	: Isobutane, Nitrogen, Propane
Colour	: transparent, light yellow
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	: -42 °C
Flash point	: -13 °C Method: closed cup Other information: No data available
Evaporation rate	: No data available
Flammability (solid, gas)	: Flammable
Upper explosion limit / Upper flammability limit	: 16 %(V)
Lower explosion limit / Lower flammability limit	: 3,1 %(V)
Vapour pressure	: 163 mmHg
Relative vapour density	: 2,8
Density	: 0,93 g/cm <sup>3</sup> (20 °C)
Solubility(ies) Water solubility	: insoluble
Partition coefficient: n-octanol/water	: Not applicable

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Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, kinematic	:	No data available
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 if used as directed. Follow precautionary advice and avoid incompatible materials and conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	:	Extremely flammable liquid and vapour. Vapours may form explosive mixture with air. Can react with strong oxidizing agents.
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### 10.4 Conditions to avoid

Conditions to avoid	:	Heat, flames and sparks.
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### 10.5 Incompatible materials

Materials to avoid	:	Oxidizing agents
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### 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
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### 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:

#### **Methyl acetate:**

Acute oral toxicity : LD50 (Rat): 6.482 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC0 (Rabbit): 49,2 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

#### **Rosin, oligomeric reaction products with isophthalic acid and pentaerythritol:**

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

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

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 31,86 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

#### **Methanol:**

Acute oral toxicity : Acute toxicity estimate (Humans): 300 mg/kg  
Method: Expert judgement

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Acute inhalation toxicity : Acute toxicity estimate: 3 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 (Humans): 300 mg/kg  
Method: Expert judgement

### Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking.

#### Components:

##### **Methyl acetate:**

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: No skin irritation

Assessment: Repeated exposure may cause skin dryness or cracking.

##### **Rosin, oligomeric reaction products with isophthalic acid and pentaerythritol:**

Species: Rabbit  
Result: No skin irritation

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

Species: Rabbit  
Result: Skin irritation

##### **Methanol:**

Species: Rabbit  
Result: No skin irritation

### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Components:

##### **Methyl acetate:**

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

##### **Rosin, oligomeric reaction products with isophthalic acid and pentaerythritol:**

Species: Rabbit  
Result: No eye irritation

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### **n-Hexane:**

Species: Rabbit  
Result: No eye irritation

### **Methanol:**

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:**

#### **Rosin, oligomeric reaction products with isophthalic acid and pentaerythritol:**

Test Type: Local lymph node assay (LLNA)  
Exposure routes: Skin contact  
Species: Mouse  
Result: positive  
Remarks: Based on data from similar materials

Assessment: Probability or evidence of low to moderate skin sensitisation rate in humans

### **n-Hexane:**

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

### **Methanol:**

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

### **Germ cell mutagenicity**

Not classified based on available information.

### **Components:**

#### **Methyl acetate:**

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

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo)

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cytogenetic assay)  
Species: Rat  
Application Route: Inhalation  
Method: OECD Test Guideline 474  
Result: negative

### **n-Hexane:**

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

: Test Type: In vitro mammalian cell gene mutation test  
Result: positive

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

### **Methanol:**

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  
Result: negative

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

### **Carcinogenicity**

Not classified based on available information.

### **Components:**

#### **Methyl acetate:**

Species: Rat  
Application Route: Inhalation  
Exposure time: 18 Months  
Result: negative

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

Species: Rat  
Application Route: inhalation (vapour)  
Exposure time: 2 Years  
Method: OECD Test Guideline 451  
Result: negative

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### **Methanol:**

Species: Mouse  
Application Route: inhalation (vapour)  
Exposure time: 18 Months  
Result: negative

### **Reproductive toxicity**

Not classified based on available information.

### **Components:**

#### **Rosin, oligomeric reaction products with isophthalic acid and pentaerythritol:**

Effects on fertility : Test Type: Fertility/early embryonic development  
Species: Rat  
Application Route: Ingestion  
Result: negative

### **n-Hexane:**

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

### **Methanol:**

Effects on fertility : Test Type: Fertility/early embryonic development  
Species: Mouse  
Application Route: Ingestion  
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Mouse  
Application Route: Ingestion  
Result: positive  
Remarks: The effects were seen only at maternally toxic doses.

### **STOT - single exposure**

May cause drowsiness or dizziness.

### **Components:**

#### **Methyl acetate:**

Assessment: May cause drowsiness or dizziness.

### **n-Hexane:**

Assessment: May cause drowsiness or dizziness.

### **Methanol:**

Target Organs: Eyes, Central nervous system



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Assessment: Causes damage to organs.

### STOT - repeated exposure

Not classified based on available information.

### Components:

#### n-Hexane:

Target Organs: Central nervous system

Assessment: May cause damage to organs through prolonged or repeated exposure.

### Repeated dose toxicity

### Components:

#### Methyl acetate:

Species: Rat

NOAEL: 1,057 mg/l

Application Route: inhalation (dust/mist/fume)

Exposure time: 28 Days

Method: OECD Test Guideline 412

#### n-Hexane:

Species: Rat

LOAEL: 10,6 mg/l

Application Route: inhalation (vapour)

Exposure time: 16 Weeks

#### Methanol:

Species: Rat

NOAEL: 1,06 mg/l

Application Route: inhalation (vapour)

Exposure time: 90 Days

### Aspiration toxicity

Not classified based on available information.

### Components:

#### 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.

### Experience with human exposure

### Components:

#### n-Hexane:

Inhalation : Target Organs: Central nervous system

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### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Components:

##### **Methyl acetate:**

- |   |   |  |
|---|---|--|
| Toxicity to fish                                    | : | LC50 (Brachydanio rerio (zebrafish)): 250 - 350 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)): 1.026,7 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202          |
| Toxicity to algae                                   | : | EC50 (Desmodesmus subspicatus (green algae)): > 120 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201 |
| Toxicity to microorganisms                          | : | EC50 (Pseudomonas putida): 6.000 mg/l<br>Exposure time: 16 h   |

##### **Rosin, oligomeric reaction products with isophthalic acid and pentaerythritol:**

- |   |   |   |
|---|---|---|
| Toxicity to fish                                    | : | LL50 (Pimephales promelas (fathead minnow)): > 1.000 mg/l<br>Exposure time: 96 h<br>Test substance: Water Accommodated Fraction<br>Remarks: Based on data from similar materials  |
| Toxicity to daphnia and other aquatic invertebrates | : | EL50 (Daphnia magna (Water flea)): > 100 mg/l<br>Exposure time: 48 h<br>Test substance: Water Accommodated Fraction<br>Method: OECD Test Guideline 202<br>Remarks: Based on data from similar materials                     |
| Toxicity to algae                                   | : | NOELR (Pseudokirchneriella subcapitata (green algae)): 1.000 mg/l<br>Exposure time: 72 h<br>Test substance: Water Accommodated Fraction<br>Method: OECD Test Guideline 201<br>Remarks: Based on data from similar materials |

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

- |   |   |  |
|---|---|--|
| Toxicity to fish                                    | : | LC50 (Pimephales promelas (fathead minnow)): 2,5 mg/l<br>Exposure time: 96 h         |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 3,88 mg/l<br>Exposure time: 48 h                  |
| Toxicity to algae                                   | : | EC50 (Pseudokirchneriella subcapitata (green algae)): 55 mg/l<br>Exposure time: 72 h |

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Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

### **Methanol:**

Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): 15.400 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 10.000 mg/l Exposure time: 48 h
Toxicity to algae	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 22.000 mg/l Exposure time: 96 h Method: OECD Test Guideline 201
Toxicity to microorganisms	:	IC50 : > 1.000 mg/l Exposure time: 3 h
Toxicity to fish (Chronic toxicity)	:	NOEC: 15.800 mg/l Exposure time: 200 h Species: Oryzias latipes (Orange-red killifish)

## 12.2 Persistence and degradability

### **Components:**

#### **Methyl acetate:**

Biodegradability	:	Result: Readily biodegradable. Biodegradation: 70 % Exposure time: 28 d Method: OECD Test Guideline 301D
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#### **Rosin, oligomeric reaction products with isophthalic acid and pentaerythritol:**

Biodegradability	:	Result: Not readily biodegradable. Remarks: Based on data from similar materials
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#### **n-Hexane:**

Biodegradability	:	Result: Readily biodegradable. Biodegradation: 98 % Exposure time: 28 d Remarks: Based on data from similar materials
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#### **Methanol:**

Biodegradability	:	Result: Readily biodegradable. Biodegradation: 95 % Exposure time: 20 d
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### 12.3 Bioaccumulative potential

#### Components:

##### **Methyl acetate:**

Partition coefficient: n-octanol/water : log Pow: 0,18

##### **Rosin, oligomeric reaction products with isophthalic acid and pentaerythritol:**

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

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

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

##### **Methanol:**

Bioaccumulation : Species: Leuciscus idus (Golden orfe)  
Bioconcentration factor (BCF): < 10

Partition coefficient: n-octanol/water : log Pow: -0,77

### 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.<br>According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.<br>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.<br>Empty containers retain residue and can be dangerous.<br>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.<br>If not otherwise specified: Dispose of as unused product. |

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Waste Code : The following Waste Codes are only suggestions:

unused product  
080409, waste adhesives and sealants containing organic solvents or other dangerous substances  
160504, gases in pressure containers (including halons) containing dangerous substances  
200127, paint, inks, adhesives and resins containing dangerous substances

used product  
080409, waste adhesives and sealants containing organic solvents or other dangerous substances  
160504, gases in pressure containers (including halons) containing dangerous substances  
200127, paint, inks, adhesives and resins 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 3501
ADR	: UN 3501
RID	: UN 3501
IMDG	: UN 3501
IATA (Cargo)	: UN 3501
IATA (Passenger)	: UN 3501 Not permitted for transport

#### 14.2 UN proper shipping name

ADN	: CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (Methyl acetate, n-Hexane)
ADR	: CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (Methyl acetate, n-Hexane)
RID	: CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (Methyl acetate, n-Hexane)
IMDG	: CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (Methyl acetate, n-Hexane)
IATA (Cargo)	: Chemical under pressure, flammable, n.o.s. (Methyl acetate, n-Hexane)
IATA (Passenger)	: CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S.

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Not permitted for transport

### 14.3 Transport hazard class(es)

<b>ADN</b>	:	2
<b>ADR</b>	:	2
<b>RID</b>	:	2
<b>IMDG</b>	:	2.1
<b>IATA (Cargo)</b>	:	2.1
<b>IATA (Passenger)</b>	:	Not permitted for transport

### 14.4 Packing group

<b>ADN</b>	
Packing group	: Not assigned by regulation
Classification Code	: 8F
Hazard Identification Number	: 23
Labels	: 2.1

<b>ADR</b>	
Packing group	: Not assigned by regulation
Classification Code	: 8F
Hazard Identification Number	: 23
Labels	: 2.1
Tunnel restriction code	: (B/D)

<b>RID</b>	
Packing group	: Not assigned by regulation
Classification Code	: 8F
Hazard Identification Number	: 23
Labels	: 2.1

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

<b>IATA (Cargo)</b>	
Packing instruction (cargo aircraft)	: 218
Packing group	: Not assigned by regulation
Labels	: Flammable Gas

<b>IATA (Passenger)</b>	: Not permitted for transport
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### 14.5 Environmental hazards

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

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

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

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### IMDG

Marine pollutant : no

### 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.

P5a	FLAMMABLE LIQUIDS	Quantity 1 10 t	Quantity 2 50 t
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Water contaminating class (Germany) : WGK 2 water endangering  
Classification according VwVwS, Annex 4.

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 640 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.

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### SECTION 16: Other information

#### Full text of H-Statements

H225	: Highly flammable liquid and vapour.
H301	: Toxic if swallowed.
H304	: May be fatal if swallowed and enters airways.
H311	: Toxic in contact with skin.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H319	: Causes serious eye irritation.
H331	: Toxic if inhaled.
H336	: May cause drowsiness or dizziness.
H361fd	: Suspected of damaging fertility. Suspected of damaging the unborn child.
H370	: Causes damage to organs.
H373	: May cause damage to organs through prolonged or repeated exposure.
H411	: Toxic to aquatic life with long lasting effects.
H413	: May cause long lasting harmful effects to aquatic life.

#### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Chronic	: Chronic aquatic toxicity
Asp. Tox.	: Aspiration hazard
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Repr.	: Reproductive toxicity
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure
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
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



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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 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; 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:

Press. Gas Compr. Gas	H280
Flam. Liq. 1	H224
Eye Irrit. 2	H319
Skin Sens. 1	H317
STOT SE 3	H336

### Classification procedure:

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

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