

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Positiv-Resist**

Revision date: 17.03.2021

Product code: 126

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Positiv-Resist

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Uses advised against**

Reserved for industrial and professional use.

Acetone is listed as a reportable explosives precursor in Annex II of EU regulation 2019/1148

Aceton ist in Anhang II der EU-Verordnung 2019/1148 als meldepflichtiger

Explosivstoffvorläufer aufgeführt

**1.3. Details of the supplier of the safety data sheet**

Company name:	ITW LLC & Co. KG		
Street:	Mühlackerstrasse 149		
Place:	D-75417 Mühlacker		
Telephone:	++49(0)7041-96340	Telefax: ++49(0)7041-963429	
e-mail:	info@itwcp.de		
Internet:	www.itwcp.de		
Responsible Department:	Produktsicherheit Mo. - Do. 8.00 - 16.30 Fr. 8.00 - 14.00		
	Swiss Toxicological Information Centre - Téléphone : +41 44 251 51 51 (in Switzerland dial 145)		
	United Kingdom : National Poisons Information Service - Phone number : 8448920111		
	Österreich : Vergiftungsinformationszentrale Vienna - Telefon-Nummer : +43 1 406 43 43		
	Schweiz : Tox Info Suisse - Telefon-Nummer : +41 44 251 51 51		
	España : Instituto Nacional de Toxicología - Teléfono : +34 91 562 04 20		
	România (Romania): Spitalul de Urgenta Floreasca 021 230 8000		
	Deutschland: ++49(0)7041-96340		

**1.4. Emergency telephone number:****SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Aerosol: Aerosol 1

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Extremely flammable aerosol.

Pressurised container: May burst if heated.

Causes serious eye irritation.

May cause drowsiness or dizziness.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**

Acetone, 1-Methoxy-2-propanol

**Signal word:** Danger

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**Pictograms:**

**Hazard statements**

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

**Precautionary statements**

P211	Do not spray on an open flame or other ignition source.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P271	Use only outdoors or in a well-ventilated area.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

**SECTION 3: Composition/information on ingredients**
**3.2. Mixtures**
**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
115-10-6	dimethyl ether			25-50%
	204-065-8	603-019-00-8		
	Flam. Gas 1; H220			
67-64-1	acetone; propan-2-one; propanone			25-50%
	200-662-2	606-001-00-8		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			
108-65-6	2-methoxy-1-methylethyl acetate			2,5-10%
	203-603-9	607-195-00-7		
	Flam. Liq. 3; H226			
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether			1-10%
	203-539-1	603-064-00-3		
	Flam. Liq. 3, STOT SE 3; H226 H336			
70657-70-4	2-methoxypropyl acetate			<1%
	274-724-2	607-251-00-0		
	Flam. Liq. 3, Repr. 1B, STOT SE 3; H226 H360D H335			

Full text of H and EUH statements: see section 16.

**SECTION 4: First aid measures**
**4.1. Description of first aid measures**
**After inhalation**

Provide fresh air. In case of accident or unwellness, seek medical advice immediately (show directions for use)

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or safety data sheet if possible).

**After contact with skin**

After contact with skin, wash immediately with: Water. Change contaminated clothing.

**After contact with eyes**

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

**After ingestion**

If swallowed, immediately drink: Water.

**4.2. Most important symptoms and effects, both acute and delayed**

No data available

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

No data available

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>). Foam. Extinguishing powder.

**Unsuitable extinguishing media**

Water with tenside additive. Water.

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

Combustible. Vapours may form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Provide adequate ventilation. Wear a self-contained breathing apparatus and chemical protective clothing.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. Explosion hazard.

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

Ventilate affected area.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from sources of ignition - No smoking.

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#### Hints on joint storage

Do not store together with: Material, rich in oxygen, oxidizing.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
107-98-2	1-Methoxypropan-2-ol	100	375		TWA (8 h)	WEL
		150	560		STEL (15 min)	WEL
108-65-6	1-Methoxypropyl acetate	50	274		TWA (8 h)	WEL
		100	548		STEL (15 min)	WEL
67-64-1	Acetone	500	1210		TWA (8 h)	WEL
		1500	3620		STEL (15 min)	WEL
115-10-6	Dimethyl ether	400	766		TWA (8 h)	WEL
		500	958		STEL (15 min)	WEL

### 8.2. Exposure controls



#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

#### Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

#### Eye/face protection

Tightly sealed safety glasses.

#### Hand protection

EN ISO 374 Tested protective gloves are to be worn: NBR (Nitrile rubber) For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. NBR (Nitrile rubber)

#### Skin protection

Protective clothing:

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

## SECTION 9: Physical and chemical properties

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

Physical state:	Aerosol
Colour:	dark violet
Odour:	characteristic

#### Changes in the physical state

Initial boiling point and boiling range: 56 °C

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Flash point:	<0 °C
Lower explosion limits:	2,5 vol. %
Upper explosion limits:	14,3 vol. %
Ignition temperature:	315 °C
Vapour pressure: (at 20 °C)	246 hPa
Vapour pressure: (at 50 °C)	814 hPa
Density (at 20 °C):	0,52 g/cm <sup>3</sup>

**SECTION 10: Stability and reactivity**
**10.1. Reactivity**

No data available

**10.2. Chemical stability**

No data available

**10.3. Possibility of hazardous reactions**

No data available

**10.4. Conditions to avoid**

Keep away from heat. Ignition hazard.

**10.5. Incompatible materials**

No data available

**10.6. Hazardous decomposition products**

No data available

**SECTION 11: Toxicological information**
**11.1. Information on toxicological effects**
**Acute toxicity**

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
67-64-1	acetone; propan-2-one; propanone				
	oral	LD50 mg/kg	5800	Rat	RTECS
	dermal	LD50 mg/kg	20000	Rabbit	IUCLID
	inhalation (4 h) vapour	LC50	76 mg/l	Rat	
108-65-6	2-methoxy-1-methylethyl acetate				
	oral	LD50 mg/kg	8532	Rat	RTECS
	dermal	LD50 mg/kg	7500	Rabbit	
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether				
	oral	LD50 mg/kg	> 5000	Rat	IUCLID
	dermal	LD50 mg/kg	11000	Rabbit	

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#### Irritation and corrosivity

Irritating to eyes. Vapours may cause drowsiness and dizziness.

#### STOT-repeated exposure

Has degreasing effect on the skin. Frequently or prolonged contact with skin may cause dermal irritation.

## SECTION 12: Ecological information

### 12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
67-64-1	acetone; propan-2-one; propanone					
	Acute fish toxicity	LC50 mg/l	5540	96 h	Onchorhynchus mykiss	
	Acute crustacea toxicity	EC50 mg/l	6100	48 h	Daphnia magna	
108-65-6	2-methoxy-1-methylethyl acetate					
	Acute fish toxicity	LC50	161 mg/l	96 h	Pimephales promelas	
	Acute crustacea toxicity	EC50	408 mg/l	48 h	Daphnia magna	
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether					
	Acute fish toxicity	LC50	4600 - 10000 mg/l	96 h	Leuciscus idus	IUCLID
	Acute algae toxicity	ErC50	> 1000 mg/l	72 h	Selenastrum capricornutum	
	Acute crustacea toxicity	EC50	> 500 mg/l	48 h	Daphnia magna	IUCLID

### 12.3. Bioaccumulative potential

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
115-10-6	dimethyl ether	0,1
67-64-1	acetone; propan-2-one; propanone	-0,24
108-65-6	2-methoxy-1-methylethyl acetate	0,43
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether	-0,437

#### Further information

Do not allow to enter into surface water or drains.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations

Dispose of waste according to applicable legislation.

#### List of Wastes Code - residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

#### List of Wastes Code - contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

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**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information****Land transport (ADR/RID)**

**14.1. UN number:** UN1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
Hazard label: 2.1



Classification code: 5F  
Special Provisions: 190 327 625  
Limited quantity: 1 L  
Transport category: 2  
Tunnel restriction code: D

**Other applicable information (land transport)**

E0

**Inland waterways transport (ADN)**

**14.1. UN number:** UN1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
Hazard label: 2.1



Classification code: 5F  
Special Provisions: 190 327 344 625  
Limited quantity: 1 L

**Other applicable information (inland waterways transport)**

E0

**Marine transport (IMDG)**

**14.1. UN number:** UN1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
**14.4. Packing group:** -  
Hazard label: 2, see SP63

Special Provisions: 63, 190, 277, 327, 344, 959  
Limited quantity: See SP277  
EmS: F-D, S-U

**Other applicable information (marine transport)**

E0

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**Air transport (ICAO-TI/IATA-DGR)**

<b>14.1. UN number:</b>	UN1950
<b>14.2. UN proper shipping name:</b>	AEROSOLS, flammable
<b>14.3. Transport hazard class(es):</b>	2.1
Hazard label:	2.1
	
Special Provisions:	A145 A167
Limited quantity Passenger:	30 kg G
IATA-packing instructions - Passenger:	203
IATA-max. quantity - Passenger:	75 kg
IATA-packing instructions - Cargo:	203
IATA-max. quantity - Cargo:	150 kg

**Other applicable information (air transport)**E0  
: Y203**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 30: 2-methoxypropyl acetate

2004/42/EC (VOC): 44,43 % (231,036 g/l)

**National regulatory information**

Water hazard class (D): 1 - slightly hazardous to water

**SECTION 16: Other information****Relevant H and EUH statements (number and full text)**

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360D	May damage the unborn child.
EUH066	Repeated exposure may cause skin dryness or cracking.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)