

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Dilutor A101

Print date: 22.09.2016

Product code: A101

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

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1.2. Relevant identified uses of the substance or mixture and uses advised against**1.3. Details of the supplier of the safety data sheet**

Company name:	RC Tritec AG	
Street:	Speicherstrasse 60a	
Place:	CH-9053 Teufen	
Telephone:	+41 71 335 73 73	Telefax: +41 71 335 73 74
e-mail:	sales@rctritec.com	
Contact person:	Dr. Bernhard Walfort	
Internet:	www.rctritec.com	

1.4. Emergency telephone number: +41 44 251 51 51

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Directive 67/548/EEC or 1999/45/EC**

Indications of danger: Xn - Harmful, Xi - Irritant
R phrases:
Flammable.
Harmful by inhalation and in contact with skin.
Irritating to eyes.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:
Flammable liquid: Flam. Liq. 3
Acute toxicity: Acute Tox. 4
Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Dam. 1
Specific target organ toxicity - single exposure: STOT SE 3
Hazard Statements:
Flammable liquid and vapour.
Causes skin irritation.
Causes serious eye damage.
Harmful if inhaled.
May cause drowsiness or dizziness.

2.2. Label elements**Hazardous components which must be listed on the label**

1-methoxy-2-propanol; monopropylene glycol methyl ether
2-butoxyethyl acetate, butylglycol acetate
butan-1-ol; n-butanol
xylene

Signal word: Danger
Pictograms: GHS02-GHS05-GHS07

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**Hazard statements**

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

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

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Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
203-539-1	1-methoxy-2-propanol; monopropylene glycol methyl ether	max. 50%
107-98-2	R10-67	
603-064-00-3	Flam. Liq. 3, STOT SE 3; H226 H336	
203-933-3	2-butoxyethyl acetate, butylglycol acetate	Max. 40%
112-07-2	Xn - Harmful R20/21	
607-038-00-2	Acute Tox. 4, Acute Tox. 4; H332 H312	
203-603-9	2-methoxy-1-methylethyl acetate	max. 10%
108-65-6	R10	
607-195-00-7	Flam. Liq. 3; H226	
224-644-9	(OLD)	max. 10%
4435-53-4	R36	
607-202-00-3		
200-751-6	butan-1-ol; n-butanol	max. 10%
71-36-3	Xn - Harmful, Xi - Irritant R10-22-37/38-41-67	
603-004-00-6	Flam. Liq. 3, Acute Tox. 4, STOT SE 3, Skin Irrit. 2, Eye Dam. 1, STOT SE 3; H226 H302 H335 H315 H318 H336	
215-535-7	xylene	Max. 5%
1330-20-7	Xn - Harmful, Xi - Irritant R10-20/21-38	
601-022-00-9	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2; H226 H332 H312 H315	

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Following inhalation: Provide fresh air. In case of inhalation of aerosols/spray mist/splash spots: Consult physician.

After contact with skin

After skin contact: Subsequently wash off with: Water and soap. In case of skin irritation, seek medical treatment.

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. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

after ingestion: Rinse mouth thoroughly with water. Call a physician in any case!

SECTION 5: Firefighting measures

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5.1. Extinguishing media**Suitable extinguishing media**Carbon dioxide (CO₂). Dry extinguishing powder. Foam.**Unsuitable extinguishing media**

High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire and/or explosion do not breathe fumes.

5.3. Advice for firefighters

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

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

Remove all sources of ignition. Provide adequate ventilation.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Clear contaminated areas thoroughly. Ventilate affected area.

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

Use only in well-ventilated areas. Keep away from sources of ignition. - No smoking.

Advice on protection against fire and explosion

Take precautionary measures against static discharge.

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

Keep container tightly closed and in a well-ventilated place.

Further information on storage conditions

Protect against: heat.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m ³	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
112-07-2	2-Butoxyethyl acetate	20	133		TWA (8 h)	WEL
		50	332		STEL (15 min)	WEL
71-36-3	Butan-1-ol	-	-		TWA (8 h)	WEL
		50	154		STEL (15 min)	WEL
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL

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Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid	650 mmol/mol	urine	Post shift

8.2. Exposure controls**Protective and hygiene measures**

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Suitable protective clothing: Lab apron. Chemical resistant safety shoes. Framed glasses. Do not eat, drink, smoke or sneeze at the workplace. Work in well-ventilated zones or use proper respiratory protection. Avoid contact with skin, eyes and clothes. After work, wash hands and face. After cleaning apply high-fat content skin care cream.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	transparent
Odour:	like: hydrocarbons, aromatic.

Test method**Changes in the physical state**

Melting point:	<-40 °C
Initial boiling point and boiling range:	>120 °C
Flash point:	35 °C
Lower explosion limits:	0.8 vol. %
Upper explosion limits:	11.5 vol. %
Ignition temperature:	>287 °C
Density (at 25°C °C):	0.92 g/cm ³

SECTION 10: Stability and reactivity**10.4. Conditions to avoid**

In case of warming: Danger of bursting container.

10.5. Incompatible materials

Reacts with : Oxidizing agents, strong. Reducing agents, strong. May cause decomposition by long-term light influence.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****ATEmix calculated**

ATE (inhalative aerosol) 3.750 mg/l

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Acute toxicity

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether				
	oral	LD50	> 5000 mg/kg	Rat	IUCLID
	dermal	LD50	11000 mg/kg	Rabbit	
112-07-2	2-butoxyethyl acetate, butylglycol acetate				
	dermal	LD50	1500 mg/kg	Rabbit	RTECS
	inhalative vapour	ATE	11 mg/l		
	inhalative aerosol	ATE	1.5 mg/l		
108-65-6	2-methoxy-1-methylethyl acetate				
	oral	LD50	8532 mg/kg	Rat	RTECS
	dermal	LD50	7500 mg/kg	Rabbit	
71-36-3	butan-1-ol; n-butanol				
	oral	ATE	500 mg/kg		
1330-20-7	xylene				
	dermal	ATE	1100 mg/kg		
	inhalative vapour	ATE	11 mg/l		
	inhalative aerosol	ATE	1.5 mg/l		

Irritation and corrosivity

1-Methoxy-2-Propylacetat:

Irritant effect on the eye: (Rabbit.): mild irritant. (OECD 405)

Irritant effect on the skin: (Rabbit.): Not an irritant. (OECD 404)

Severe effects after repeated or prolonged exposure

following inhalation: Causes drowsiness or dizziness. Frequently or prolonged contact with skin may cause dermal irritation. Has de-greasing effect on the skin. The statement is derived from the properties of the single components.

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
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
112-07-2	2-butoxyethyl acetate, butylglycol acetate					
	Acute algae toxicity	ErC50	> 500 mg/l	72 h	Desmodesmus subspicatus	IUCLID
	Acute crustacea toxicity	EC50	37 mg/l	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	

12.2. Persistence and degradability

Product is partially biodegradable. Significant residues remain.

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12.3. Bioaccumulative potential**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether	-0,437
112-07-2	2-butoxyethyl acetate, butylglycol acetate	1,51
108-65-6	2-methoxy-1-methylethyl acetate	0,43

Further information

Discharge into the environment must be avoided. The statement is derived from the properties of the components.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Advice on disposal**

Remove according to the regulations.
Contaminated packaging: Non-contaminated packages may be recycled.

Waste disposal number of waste from residues/unused products

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other dangerous substances
Classified as hazardous waste.

Waste disposal number of used product

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other dangerous substances
Classified as hazardous waste.

Waste disposal number of contaminated packaging

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other dangerous substances
Classified as hazardous waste.

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

14.1. UN number:	UN 1263
14.2. UN proper shipping name:	Paint related material
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3
Classification code:	F1
Special Provisions:	163 640E 650
Limited quantity:	5 L
Transport category:	3
Hazard No:	30
Tunnel restriction code:	D/E

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Other applicable information (land transport)

Special provisions: 163 640H 650

Transport category: 3

Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number:	UN 1263
14.2. UN proper shipping name:	Paint related material
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3
Classification code:	F1
Special Provisions:	163 640E 650
Limited quantity:	5 L

Other applicable information (inland waterways transport)

E1

Special provisions: 163 640H 650

Marine transport (IMDG)

14.1. UN number:	UN 1263
14.2. UN proper shipping name:	Paint related material
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3
Marine pollutant:	•
Special Provisions:	163, 223, 955
Limited quantity:	5 L
EmS:	F-E, S-E

Other applicable information (marine transport)

E1

Special provisions: 163, 223, 944, 955

Air transport (ICAO)

14.1. UN number:	UN 1263
14.2. UN proper shipping name:	Paint related material
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3
Special Provisions:	A3 A72
Limited quantity Passenger:	10 L
IATA-packing instructions - Passenger:	355
IATA-max. quantity - Passenger:	60 L
IATA-packing instructions - Cargo:	366
IATA-max. quantity - Cargo:	220 L

Other applicable information (air transport)

: Y344

E1

00000000005: Y309

220 L

SECTION 15: Regulatory information

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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**National regulatory information**

Water contaminating class (D): 2 - water contaminating

SECTION 16: Other information**Relevant R-phrases (Number and full text)**

10	Flammable.
20/21	Harmful by inhalation and in contact with skin.
22	Harmful if swallowed.
36	Irritating to eyes.
37/38	Irritating to respiratory system and skin.
38	Irritating to skin.
41	Risk of serious damage to eyes.
67	Vapours may cause drowsiness and dizziness.

Relevant H- and EUH-phrases (Number and full text)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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