

according to Regulation (EC) No 1907/2006

#### die:master spacer varnish

Revision date: 17.04.2018

Product code: 19560x00

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Renfert GmbH

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

#### 1.1. Product identifier

die:master spacer varnish

#### Further trade names

1956 0100	die:master gray
1956 0200	die:master red
1956 0300	die:master blue
1956 0400	die:master silver
1956 0500	die:master gold
1956 0800	die:master Set red
1956 0900	die:master Set blue
1956 1000	die:master Set gold/silver
elevant identi	fied uses of the substance

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

Use of the substance/mixture

## One-pack coating

Uses advised against No information available.

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

Company name:	Renfert GmbH		
Street:	Untere Giesswiesen 2		
Place:	D-78247 Hilzingen		
Telephone:	+49 7731 8208-0	Telefax:	+49 7731 8208-70
e-mail:	info@renfert.com		
Contact person:	Frau Andris	Telephone:	+49 7731 8208-927
e-mail:	silke.andris@renfert.com		
Internet:	www.renfert.com		
1.4. Emergency telephone number:	GB: 0044 151 951 3317 (Health and Safety Executiv	ve (HSE) Chemical	s)   USA:
	800-222-1222 (National Poison Control number)   C	A: British Columbia	a: 800-567-8911 or
	604-682-5050 Alberta: 1-800-332-1414 or 944-1414	Saskatchewan: 1-	866-454-1212
	Manitoba: 1-855-776-4766 Ontario: 1-800-268-9017	' Quebec: 1-800-46	3-5060 New
	Brunswick: 911 New Foundland: 1-866-727-1110 No		
	Nova Scotia: 1-800-565-8161   AU: 13 11 26   ZA: 0	21 938 6084 (Office	e Hours) or 021
	931 6129 (24 Hours)		

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008 Hazard categories: Flammable liquid: Flam. Liq. 2 Serious eye damage/eye irritation: Eye Irrit. 2 Specific target organ toxicity - single exposure: STOT SE 3 Specific target organ toxicity - single exposure: STOT SE 3 Hazard Statements: Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness. May cause respiratory irritation.

Danger

## 2.2. Label elements

#### Regulation (EC) No. 1272/2008

Hazard components for labelling

butanone pentan-3-one

n-butyl acetate Signal word:

Pictograms:

Hazard statements H225 H319

Highly flammable liquid and vapour. Causes serious eye irritation.



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The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

Chemical characterization

One-pack coating

#### Hazardous components

Chemical name			Quantity
EC No	Index No	REACH No	
Classification according to	Regulation (EC) No. 1272/2008 [CLP]		
butanone			20 - 55%
201-159-0	606-002-00-3	01-2119457290-43	
Flam. Liq. 2, Eye Irrit. 2, ST	TOT SE 3; H225 H319 H336 EUH066		
pentan-3-one	5 - 35%		
202-490-3	606-006-00-5	01-2119531111-60	
Flam. Liq. 2, Eye Irrit. 2, ST	TOT SE 3, STOT SE 3; H225 H319 H335	H336 EUH066	
n-butyl acetate			5 - 20%
204-658-1	607-025-00-1	01-2119485493-29	
Flam. Liq. 3, STOT SE 3; H	1226 H336 EUH066		
	EC No Classification according to butanone 201-159-0 Flam. Liq. 2, Eye Irrit. 2, ST pentan-3-one 202-490-3 Flam. Liq. 2, Eye Irrit. 2, ST n-butyl acetate 204-658-1	EC No         Index No           Classification according to Regulation (EC) No. 1272/2008 [CLP]           butanone           201-159-0         606-002-00-3           Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066           pentan-3-one           202-490-3         606-006-00-5           Flam. Liq. 2, Eye Irrit. 2, STOT SE 3, STOT SE 3; H225 H319 H335           n-butyl acetate	EC No         Index No         REACH No           Classification according to Regulation (EC) No. 1272/2008 [CLP]            butanone            201-159-0         606-002-00-3         01-2119457290-43           Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066             pentan-3-one          01-2119531111-60            Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H335 H336 EUH066              r-butyl acetate                204-658-1         607-025-00-1         01-2119485493-29

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

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### General information

Remove contaminated, saturated clothing immediately.

#### After inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

#### After contact with skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

#### After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### After ingestion

Rinse mouth immediately and drink plenty of water. When in doubt or if symptoms are observed, get medical advice.

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

The following symptoms may occur: Vapours may cause drowsiness and dizziness. Processing vapours can irritate the respiratory tracts, skin and eyes. Repeated exposure may cause skin dryness or cracking.

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

Treat symptomatically.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

## Suitable extinguishing media

Extinguishing powder, Carbon dioxide (CO2), alcohol resistant foam, Water spray jet

#### Unsuitable extinguishing media

Full water jet



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

Vapours can form explosive mixtures with air. Thermal decomposition can lead to the escape of irritating gases and vapours.

## 5.3. Advice for firefighters

#### 5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

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

Provide adequate ventilation.

Use personal protection equipment.

Remove all sources of ignition.

#### 6.2. Environmental precautions

#### Do not allow to enter into surface water or drains.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

#### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

#### **SECTION 7: Handling and storage**

7.1. Precautions for safe handling

## Advice on safe handling

Use only in well-ventilated areas. Avoid contact with eyes and skin.

When using do not eat, drink or smoke.

#### Advice on protection against fire and explosion

Vapours can form explosive mixtures with air.

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges.

#### Further information on handling

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

#### 7.3. Specific end use(s)

Please refer to our internet website for more information: www.renfert.com

#### **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

## Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
78-93-3	Butan-2-one (methyl ethyl ketone)	200	600		TWA (8 h)	WEL
		300	899		STEL (15 min)	WEL
123-86-4	Butyl acetate	150	724		TWA (8 h)	WEL
		200	966		STEL (15 min)	WEL
96-22-0	Pentan-3-one	200	716		TWA (8 h)	WEL
		250	895		STEL (15 min)	WEL

#### **Biological Monitoring Guidance Values (EH40)**

CAS No	Substance	Parameter	Value	Test material	Sampling time
78-93-3	Butan-2-one	butan-2-one	70 µmol/L	urine	Post shift

#### 8.2. Exposure controls

Appropriate engineering controls

Safe handling: see section 7



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#### Protective and hygiene measures

#### Do not breathe vapour.

Avoid contact with skin, eyes and clothes.

Wash hands before breaks and after work.

Keep away from food, drink and animal feedingstuffs.

## Eye/face protection

Wear eye/face protection.

## Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

Suitable material: NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber)

Thickness of the glove material: 0,5 mm

Breakthrough time: >= 60 min

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. 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.

#### **Respiratory protection**

Use only in well-ventilated areas. Usually no personal respirative protection necessary.

#### Environmental exposure controls

Do not allow to enter into surface water or drains.

#### **SECTION 9: Physical and chemical properties**

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

Physical state:	Liquid		
Colour:	various, depending on coloration		
Odour:	characteristic		
			Test method
pH-Value:		not applicable	
Changes in the physical state			
Melting point:		not determined	
Initial boiling point and boiling range:		79 °C	
Flash point:		< 0 °C	DIN 51755 (cc)
Explosive properties			
not explosive.			
Vapours can form explosive mixtures	s with air.		
Lower explosion limits:		1,2 vol. %	
Upper explosion limits:		11,5 vol. %	
Ignition temperature:		370 °C	
Decomposition temperature:		not determined	
Vapour pressure:		105 hPa	
(at 20 °C)			
Density (at 20 °C):		0,8 - 1,0 g/cm³	
Water solubility:		Immiscible	
Partition coefficient:		not determined	
Viscosity / dynamic:		not determined	
Viscosity / kinematic:		not determined	
Evaporation rate:		not determined	
.2. Other information			
No data available			

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Vapours can form explosive mixtures with air.

#### 10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

#### 10.3. Possibility of hazardous reactions

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.



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#### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

No information available.

## 10.6. Hazardous decomposition products

No known hazardous decomposition products

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
78-93-3	butanone					
	oral	LD50 mg/kg	>2193	Rat		OECD 423
	dermal	LD50 mg/kg	> 5000	Rabbit		OECD 402
	inhalative (4 h) vapour	LC50	34 mg/l	Rat		
96-22-0	pentan-3-one					
	oral	LD50 mg/kg	2900	Rat		OECD 401
	dermal	LD50 mg/kg	16200	Rabbit		OECD 402
123-86-4	n-butyl acetate					
	oral	LD50 mg/kg	> 10000	Rat		OECD 423 (calculated.)
	dermal	LD50 mg/kg	> 10000	Rabbit		OECD 402

#### Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

#### Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

#### STOT-single exposure

May cause respiratory irritation. (pentan-3-one)

May cause drowsiness or dizziness. (butanone; pentan-3-one)

## STOT-repeated exposure

Repeated exposure may cause skin dryness or cracking.

## Aspiration hazard

Based on available data, the classification criteria are not met.

#### **Further information**

The product has not been tested. The statement is derived from the properties of the single components.

## SECTION 12: Ecological information

## 12.1. Toxicity

There are no data available on the mixture itself.



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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
78-93-3	butanone						
	Acute fish toxicity	LC50	2990 mg/l	96 h	Pimephales promelas (fathead minnow)		OECD 203
	Acute algae toxicity	ErC50	1972 mg/l	72 h	Pseudokirchneriella subcapitata		OECD 201
	Acute crustacea toxicity	EC50	308 mg/l	48 h	Daphnia magna (Big water flea)		OECD 202
96-22-0	pentan-3-one						
	Acute fish toxicity	LC50	1540 mg/l	96 h	Pimephales promelas (fathead minnow)		

#### 12.2. Persistence and degradability

There are no data available on the mixture itself.

CAS No	Chemical name					
	Method	Value	d	Source		
	Evaluation					
78-93-3	butanone					
	OECD 301D	98 %	28			
	Readily biodegradable (according to OECD criteria).					

#### 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water			
CAS No	Chemical name	Log Pow	
96-22-0	pentan-3-one	0,82	

#### 12.4. Mobility in soil

There are no data available on the mixture itself.

## 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No information available.

#### Further information

The product has not been tested. The statement is derived from the properties of the single components. Do not allow uncontrolled discharge of product into the environment.

#### **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

#### Advice on disposal

Send to a hazardous waste incinerator facility under observation of official regulations.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the

industry and process.

#### Waste disposal number of waste from residues/unused products 080111 WASTES FROM THE MANUFACTURE, FORMUL

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 hazardous substances; hazardous waste

#### Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

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

<u>14.1. UN number:</u>	UN 1263
14.2. UN proper shipping name:	FARBE
14.3. Transport hazard class(es):	3
14.4. Packing group:	П
/larine transport (IMDG)	

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<u>14.1. UN number:</u>	UN 1263	
14.2. UN proper shipping name:	PAINT	
14.3. Transport hazard class(es):	3	
14.4. Packing group:	II	
Marine pollutant:	no	
Air transport (ICAO-TI/IATA-DGR)		
<u>14.1. UN number:</u>	UN 1263	
14.2. UN proper shipping name:	PAINT	
<u>14.3. Transport hazard class(es):</u>	3	
14.4. Packing group:	ll	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	no	
14.6. Special precautions for user Further information: see section 6	7, 8	
14.7. Transport in bulk according to Anne	x II of Marpol and the IBC Code	
not applicable		
<b>SECTION 15: Regulatory information</b>		
15.1. Safety, health and environmental reg	gulations/legislation specific for the substance or mixture	
EU regulatory information		
2004/42/EC (VOC):	1956-0100: 72,8% / 1956-0200: 69,4% / 1956-0300: 69,6%	
	1956-0400: 82,3% / 1956-0500: 74,1%	
National regulatory information		
Employment restrictions:	Observe restrictions to employment for juvenils according to the 'juvenile work	
	protection guideline' (94/33/EC).	
Water contaminating class (D):	1 - slightly water contaminating	
15.2. Chemical safety assessment	a mixture a chemical sofety accomment has been carried out	
butanone	s mixture a chemical safety assessment has been carried out:	
pentan-3-one		
n-butyl acetate		
SECTION 16: Other information		
Changes		
Abs. 4, 13, 14, 15, 16 * Data char	nged compared with the previous version	
Abbreviations and acronyms		
	division of the American Chemical Society)	
LD50: lethal dose, 50% LC50: lethal concentration, 50%		
EC50: half maximal effective conce	entration	
	ansport international des marchandises Dangereuses par Route (European Agreement	
concerning the International Carria		
	sport international ferroviaire de marchandises Dangereuses (Regulations Concerning	
the International Transport of Dang IMDG: International Maritime Code		
ICAO: International Civil Aviation C	•	
MARPOL: International Convention	o for the Prevention of Marine Pollution from Ships	
VOC: volatile organic compound(s		
Classification for mixtures and used eva	luation method according to Regulation (EC) No. 1272/2008 [CLP]	1
Classification C	Classification procedure	
Flam. Liq. 2; H225 C	In basis of test data	
Eye Irrit. 2; H319 C	calculation method	
1 I	coloulation mathed	
STOT SE 3; H336 C	Calculation method	

## Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.

H226Flammable liquid and vapour.H319Causes serious eye irritation.



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H335 H336 EUH066 May cause respiratory irritation. May cause drowsiness or dizziness.

Repeated exposure may cause skin dryness or cracking.

#### **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. Restricted to professional users.

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



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1956 0600

SECTION 1: Identification of the sub- 1.1. Product identifier	stance/mixture and of the company	y/undertaking
die:master duo 1956 0600		
Further trade names		
1956 0800 die:master Set red		
1956 0900 die:master Set blue		
1956 1000 die:master Set gold/si	lver	
1957 1000 die:master Set ivory		
1957 2000 die:master Set aqua		
1.2. Relevant identified uses of the subst	ance or mixture and uses advised again	nst
Use of the substance/mixture		
One-pack coating		
Uses advised against		
No information available.		
1.3. Details of the supplier of the safety d	ata sheet	
Company name:	Renfert GmbH	
Street:	Untere Giesswiesen 2	
Place:	D-78247 Hilzingen	
Telephone:	+49 7731 8208-0	Telefax: +49 7731 8208-70
e-mail:	info@renfert.com	
Contact person:	Frau Andris	Telephone: +49 7731 8208-927
e-mail:	silke.andris@renfert.com	
Internet:	www.renfert.com	
1.4. Emergency telephone number:		Safety Executive (HSE) Chemicals)   USA:
	•	ol number)   CA: British Columbia: 800-567-8911 or
		14 or 944-1414 Saskatchewan: 1-866-454-1212
		-800-268-9017 Quebec: 1-800-463-5060 New
		6-727-1110 Northwest Territories: 1-800-332-1414
		3 11 26   ZA: 021 938 6084 (Office Hours) or 021
	931 6129 (24 Hours)	
SECTION 2: Hazards identification		
2.1. Classification of the substance or mi	xture	
Regulation (EC) No. 1272/2008		
Hazard categories:		
Flammable liquid: Flam Liq. 2		

Flammable liquid: Flam. Liq. 2 Serious eye damage/eye irritation: Eye Irrit. 2 Specific target organ toxicity - single exposure: STOT SE 3 Hazard Statements: Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.

## 2.2. Label elements

#### Regulation (EC) No. 1272/2008

Hazard components for labelling

butanone	
n-butyl acetate	
Signal word:	
Pictograms:	



Highly flammable liquid and vapour.

Hazard statements

H225	
H319	
H336	
Precaution	ary statements
P210	
P261	
P280	

Causes serious eye irritation. May cause drowsiness or dizziness.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear protective gloves and eye/face protection.





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# die:master duo 1956 0600 Revision date: 17.04.2018 Product code: 19560600 Page 2 of 7 P337+P313 If eye irritation persists: Get medical advice/attention. Figure 1000000

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

#### Special labelling of certain mixtures

EUH066 Repeated exposure may cause skin dryness or cracking.

#### 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

Chemical characterization

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#### Hazardous components

CAS No	Chemical name						
	EC No	Index No	REACH No				
	Classification according to Regulation (EC) No. 1272/2008 [CLP]						
78-93-3	butanone						
	201-159-0	606-002-00-3	01-2119457290-43				
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066						
123-86-4	n-butyl acetate						
	204-658-1	607-025-00-1	01-2119485493-29				
	Flam. Liq. 3, STOT SE 3; H226 H336 EUH066						

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

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### General information

Remove contaminated, saturated clothing immediately.

#### After inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

## After contact with skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

## After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. When in doubt or if symptoms are observed, get medical advice.

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

The following symptoms may occur: Vapours may cause drowsiness and dizziness. Processing vapours can irritate the respiratory tracts, skin and eyes. Repeated exposure may cause skin dryness or cracking.

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

## Treat symptomatically.

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

## Suitable extinguishing media

Extinguishing powder, Carbon dioxide (CO2), alcohol resistant foam, Water spray jet

Unsuitable extinguishing media

Full water jet

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

Vapours can form explosive mixtures with air.

Thermal decomposition can lead to the escape of irritating gases and vapours.

#### 5.3. Advice for firefighters

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

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

#### **SECTION 6: Accidental release measures**

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

Provide adequate ventilation.





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Use personal protection equipmen	ıt.		
Remove all sources of ignition.			
6.2. Environmental precautions			
Do not allow to enter into surface v	water or drains.		
6.3. Methods and material for containment	nt and cleaning up		
Absorb with liquid-binding material	I (e.g. sand, diatomaceous earth, a	acid- or universal binding agents).	
Collect in closed and suitable cont	ainers for disposal.		
6.4. Reference to other sections			
Safe handling: see section 7			
Personal protection equipment: se	e section 8		
Disposal: see section 13			
SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Advice on safe handling			
Use only in well-ventilated areas.			
Avoid contact with eyes and skin.			
When using do not eat, drink or sn	noke.		
Advice on protection against fire and	•		
Vapours can form explosive mixtur			
Keep away from sources of ignition	0		
Take precautionary measures aga	inst static discharges.		

#### Further information on handling

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

#### 7.3. Specific end use(s)

Please refer to our internet website for more information: www.renfert.com

#### **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
78-93-3	Butan-2-one (methyl ethyl ketone)	200	600		TWA (8 h)	WEL
		300	899		STEL (15 min)	WEL
123-86-4	Butyl acetate	150	724		TWA (8 h)	WEL
		200	966		STEL (15 min)	WEL

#### **Biological Monitoring Guidance Values (EH40)**

CAS No	Substance	Parameter	Value	Test material	Sampling time
78-93-3	Butan-2-one	butan-2-one	70 µmol/L	urine	Post shift

#### 8.2. Exposure controls

## Appropriate engineering controls

Safe handling: see section 7

#### Protective and hygiene measures

Do not breathe vapour.

Avoid contact with skin, eyes and clothes.

Wash hands before breaks and after work.

Keep away from food, drink and animal feedingstuffs.

## Eye/face protection

Wear eye/face protection.

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

Suitable material: NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber)

Thickness of the glove material: 0,5 mm

Breakthrough time: >= 60 min



according to Regulation (EC) No 1907/2006

	according to Regulation (EC) No 1907/2006	
	die:master duo 1956 0600	
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together with the supplier of these glove	istant to chemicals must be chosen as a function of the speci s substances. on necessary.	
SECTION 9: Physical and chemical prop		
9.1. Information on basic physical and chemic	cal properties	
Physical state:	Liquid	
Colour:	colourless	
Odour:	characteristic	Toot method
		Test method
pH-Value:	not applicable	
Changes in the physical state		
Melting point:	not determined	
Initial boiling point and boiling range:	79 °C	
Flash point:	- 5 °C	DIN 51755 (cc)
Explosive properties not explosive. Vapours can form explosive mixtures w	ith air.	
Lower explosion limits:	1,2 vol. %	
Upper explosion limits:	11,5 vol. %	
Ignition temperature:	370 °C	
Vapour pressure:	101 hPa	
(at 20 °C) Density (at 20 °C):	0,78 - 0,88 g/cm³	
Water solubility:	Immiscible	
Partition coefficient:	not determined	
Viscosity / dynamic:	not determined	
Viscosity / kinematic:	not determined	
Evaporation rate:	not determined	
9.2. Other information		
No data available		
SECTION 10: Stability and reactivity		
10.1. Reactivity Vapours can form explosive mixtures w	ith air.	
10.2. Chemical stability The mixture is chemically stable under	recommended conditions of storage, use and temperature.	
10.3. Possibility of hazardous reactions	through use, explosive/highly flammable mixtures may devel	op.
10.4. Conditions to avoid Keep away from heat, hot surfaces, spa	arks, open flames and other ignition sources. No smoking.	
10.5. Incompatible materials No special measures are necessary.		
10.6. Hazardous decomposition products No known hazardous decomposition pr	oducts.	
SECTION 11: Toxicological information		
11.1. Information on toxicological effects		

## Acute toxicity

Based on available data, the classification criteria are not met.



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CAS No	Chemical name								
	Exposure route	Dose		Species	Source	Method			
78-93-3	butanone								
	oral	LD50 mg/kg	>2193	Rat		OECD 423			
	dermal	LD50 mg/kg	> 5000	Rabbit		OECD 402			
	inhalative (4 h) vapour	LC50	34 mg/l	Rat					
123-86-4	n-butyl acetate								
	oral	LD50 mg/kg	> 10000	Rat		OECD 423 (calculated.)			
	dermal	LD50 mg/kg	> 10000	Rabbit		OECD 402			

#### Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

#### Sensitising effects

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

#### STOT-single exposure

May cause drowsiness or dizziness. (butanone)

#### STOT-repeated exposure

Repeated exposure may cause skin dryness or cracking.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### Further information

The product has not been tested. The statement is derived from the properties of the single components.

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

There are no data available on the mixture itself.

CAS No	Chemical name								
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method		
78-93-3	butanone								
	Acute fish toxicity	LC50	2990 mg/l		Pimephales promelas (fathead minnow)		OECD 203		
	Acute algae toxicity	ErC50	1972 mg/l		Pseudokirchneriella subcapitata		OECD 201		
	Acute crustacea toxicity	EC50	308 mg/l		Daphnia magna (Big water flea)		OECD 202		

## 12.2. Persistence and degradability

There are no data available on the mixture itself.

CAS No	Chemical name						
	Method Value d Source						
	Evaluation						
70.00.0	butanone						
78-93-3	putanone						
78-93-3		98 %	28				

## 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

#### 12.4. Mobility in soil

There are no data available on the mixture itself.

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.



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#### die:master duo 1956 0600

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12.6. Other adverse effects

Revision date: 17.04.2018

No information available.

#### Further information

Do not allow uncontrolled discharge of product into the environment.

The product has not been tested. The statement is derived from the properties of the single components.

#### **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

#### Advice on disposal

Send to a hazardous waste incinerator facility under observation of official regulations.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

#### 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 hazardous substances; hazardous waste

## Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

# SECTION 14: Transport information

Land tra	anenort	וחוס
Lanuuu	ansport	ושוא

Land transport (ADR/RID)	
<u>14.1. UN number:</u>	UN 1263
14.2. UN proper shipping name:	FARBE
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Marine transport (IMDG)	
<u>14.1. UN number:</u>	UN 1263
14.2. UN proper shipping name:	PAINT
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Marine pollutant:	no
Air transport (ICAO-TI/IATA-DGR)	
<u>14.1. UN number:</u>	UN 1263
14.2. UN proper shipping name:	PAINT
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
14.5. Environmental hazards	
ENVIRONMENTALLY HAZARDOUS:	no
14.6. Special precautions for user	
Further information: see section 6, 7, 8	
14.7. Transport in bulk according to Annex II of M	arpol and the IBC Code
not applicable	
SECTION 15: Regulatory information	
15.1. Safety, health and environmental regulation	s/legislation specific for the substance or mixture
EU regulatory information	
2004/42/EC (VOC):	749,3 g/l
National regulatory information	
Employment restrictions:	Observe restrictions to employment for juvenils according to the 'juvenile work
Water contaminating class (D):	protection guideline' (94/33/EC). 1 - slightly water contaminating
• ( )	r - slightly water containinating
15.2. Chemical safety assessment For the following substances of this mixture	e a chemical safety assessment has been carried out:
butanone	
n-butyl acetate	
SECTION 16: Other information	



according to Regulation (EC) No 1907/2006

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#### Changes

Abs. 4, 13, 14, 15, 16 \* Data changed compared with the previous version

#### Abbreviations and acronyms

CAS: Chemical Abstracts Service (division of the American Chemical Society)

- LD50: lethal dose, 50%
- LC50: lethal concentration, 50%

EC50: half maximal effective concentration

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European Agreement

concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement concernant le transport international ferroviaire de marchandises Dangereuses (Regulations Concerning

the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

VOC: volatile organic compound(s)

## Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure	
Flam. Liq. 2; H225	On basis of test data	
Eye Irrit. 2; H319	Calculation method	
STOT SE 3; H336	Calculation method	

#### Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

#### **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. Restricted to professional users.

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



according to Regulation (EC) No 1907/2006

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Product code: 19560700

1956 0700

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

die:master thinner

die:master thinner

#### Further trade names

1956 0800 die:master Set red 1956 0900 die:master Set blue

1956 1000 die:master Set gold/silver

1957 1000 die:master Set ivory

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

1956 0700

Use of the substance/mixture

die:master thinner

Uses advised against

No information available.

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

Company name:	Renfert GmbH	
Street:	Untere Giesswiesen 2	
Place:	D-78247 Hilzingen	
Telephone:	+49 7731 8208-0	Telefax: +49 7731 8208-70
e-mail:	info@renfert.com	
Contact person:	Frau Andris	Telephone: +49 7731 8208-927
e-mail:	silke.andris@renfert.com	
Internet:	www.renfert.com	
1.4. Emergency telephone number:	GB: 0044 151 951 3317 (Health and Safety	Executive (HSE) Chemicals)   USA:
	800-222-1222 (National Poison Control nun	nber)   CA: British Columbia: 800-567-8911 or
	604-682-5050 Alberta: 1-800-332-1414 or 9	044-1414 Saskatchewan: 1-866-454-1212
	Manitoba: 1-855-776-4766 Ontario: 1-800-2	268-9017 Quebec: 1-800-463-5060 New
	Brunswick: 911 New Foundland: 1-866-727	-1110 Northwest Territories: 1-800-332-1414
	Nova Scotia: 1-800-565-8161   AU: 13 11 2	6   ZA: 021 938 6084 (Office Hours) or 021

#### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

## Regulation (EC) No. 1272/2008

Hazard categories: Flammable liquid: Flam. Liq. 2 Serious eye damage/eye irritation: Eye Irrit. 2 Specific target organ toxicity - single exposure: STOT SE 3 Specific target organ toxicity - single exposure: STOT SE 3 Hazard Statements: Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness. May cause respiratory irritation.

Danger

#### 2.2. Label elements

#### Regulation (EC) No. 1272/2008

Hazard components for labelling

butanone pentan-3-one

Signal word: Pictograms:

r lotogramo.



Highly flammable liquid and vapour.

May cause drowsiness or dizziness.

Causes serious eye irritation.

May cause respiratory irritation.

931 6129 (24 Hours)

#### Hazard statements

H225 H319 H335 H336

## Precautionary statements

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.





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P261 P280 P337+P313

EUH066

Wear protective gloves and eye/face protection. If eye irritation persists: Get medical advice/attention.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

#### Special labelling of certain mixtures

Repeated exposure may cause skin dryness or cracking.

#### 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

Avoid breathing dust/fume/gas/mist/vapours/spray.

#### **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

Chemical characterization Solvents/Thinner

#### Hazardous components

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification according				
78-93-3	butanone			50 - 70 %	
	201-159-0	606-002-00-3	01-2119457290-43		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066				
96-22-0	pentan-3-one	20 - 40%			
	202-490-3	606-006-00-5	01-2119531111-60		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3, STOT SE 3; H225 H319 H335 H336 EUH066				
123-86-4	n-butyl acetate			5 - 15%	
	204-658-1	607-025-00-1	01-2119485493-29		
	Flam. Liq. 3, STOT SE 3; H226 H336 EUH066				

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

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### General information

Remove contaminated, saturated clothing immediately.

#### After inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

#### After contact with skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

#### After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. When in doubt or if symptoms are observed, get medical advice.

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

The following symptoms may occur: Vapours may cause drowsiness and dizziness. Processing vapours can irritate the respiratory tracts, skin and eyes. Repeated exposure may cause skin dryness or cracking.

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

Treat symptomatically.

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Extinguishing powder, Carbon dioxide (CO2), alcohol resistant foam, Water spray jet

#### Unsuitable extinguishing media

Full water jet

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

Vapours can form explosive mixtures with air.

Thermal decomposition can lead to the escape of irritating gases and vapours.



according to Regulation (EC) No 1907/2006

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#### 5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. In case of fire: Wear self-contained breathing apparatus

#### SECTION 6: Accidental release measures

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

Provide adequate ventilation.

Use personal protection equipment.

Remove all sources of ignition.

## 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

#### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

#### **SECTION 7: Handling and storage**

7.1. Precautions for safe handling

#### Advice on safe handling

Use only in well-ventilated areas. Avoid contact with eyes and skin.

When using do not eat, drink or smoke. Advice on protection against fire and explosion

## Vapours can form explosive mixtures with air.

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges.

#### Further information on handling

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

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

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

#### 7.3. Specific end use(s)

Please refer to our internet website for more information: www.renfert.com

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

## Exposure limits (EH40)

-						
CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
78-93-3	Butan-2-one (methyl ethyl ketone)	200	600		TWA (8 h)	WEL
		300	899		STEL (15 min)	WEL
123-86-4	Butyl acetate	150	724		TWA (8 h)	WEL
		200	966		STEL (15 min)	WEL
96-22-0	Pentan-3-one	200	716		TWA (8 h)	WEL
		250	895		STEL (15 min)	WEL

#### **Biological Monitoring Guidance Values (EH40)**

CAS No	Substance	Parameter	Value	Test material	Sampling time
78-93-3	Butan-2-one	butan-2-one	70 µmol/L	urine	Post shift

#### 8.2. Exposure controls

#### Appropriate engineering controls

Safe handling: see section 7

Protective and hygiene measures

#### Do not breathe vapour.

Avoid contact with skin, eyes and clothes.

Wash hands before breaks and after work.



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Keep away from food, drink and animal feedingstuffs.

Eye/face protection

Wear eye/face protection.

## Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

Suitable material: NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber)

Thickness of the glove material: 0,5 mm

Breakthrough time: >= 60 min

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.

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.

## Respiratory protection

Use only in well-ventilated areas.

Usually no personal respirative protection necessary.

#### **Environmental exposure controls**

Do not allow to enter into surface water or drains.

#### **SECTION 9: Physical and chemical properties**

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

Physical state:	Liquid		
Colour:	colourless		
Odour:	characteristic		
			Test method
pH-Value:		not applicable	
Changes in the physical state			
Melting point:		not determined	
Initial boiling point and boiling range	e:	79 °C	
Flash point:		- 1,5 °C	DIN 51755 (cc)
Explosive properties			
not explosive.			
Vapours can form explosive mi	xtures with air.		
Lower explosion limits:		1,2 vol. %	
Upper explosion limits:		11,5 vol. %	
Ignition temperature:		370 °C	
Vapour pressure:		105 hPa	
(at 20 °C)			
Density (at 20 °C):		0,7 - 0,9 g/cm³	
Water solubility:		Immiscible	
Partition coefficient:		not determined	
Viscosity / dynamic:		not determined	
Viscosity / kinematic:		not determined	
Evaporation rate:		not determined	
Solvent content:	100%		
. Other information			
Solid content:	0 %		

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Vapours can form explosive mixtures with air.

#### 10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

#### 10.3. Possibility of hazardous reactions

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

#### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

## 10.5. Incompatible materials

No information available.



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10.6. Hazardous decomposition products No known hazardous decomposition products.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

#### Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name	Chemical name				
	Exposure route	Dose		Species	Source	Method
78-93-3	butanone					
	oral	LD50 mg/kg	>2193	Rat		OECD 423
	dermal	LD50 mg/kg	> 5000	Rabbit		OECD 402
	inhalative (4 h) vapour	LC50	34 mg/l	Rat		
96-22-0	pentan-3-one					
	oral	LD50 mg/kg	2900	Rat		OECD 401
	dermal	LD50 mg/kg	16200	Rabbit		OECD 402
123-86-4	n-butyl acetate					
	oral	LD50 mg/kg	> 10000	Rat		OECD 423 (calculated.)
	dermal	LD50 mg/kg	> 10000	Rabbit		OECD 402

#### Irritation and corrosivity

Causes serious eve irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

#### Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

#### STOT-single exposure

May cause respiratory irritation. (pentan-3-one)

May cause drowsiness or dizziness. (butanone; pentan-3-one)

#### STOT-repeated exposure

Repeated exposure may cause skin dryness or cracking.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### **Further information**

The product has not been tested. The statement is derived from the properties of the single components

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

There are no data available on the mixture itself.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
78-93-3	butanone						
	Acute fish toxicity	LC50	2990 mg/l	96 h	Pimephales promelas (fathead minnow)		OECD 203
	Acute algae toxicity	ErC50	1972 mg/l		Pseudokirchneriella subcapitata		OECD 201
	Acute crustacea toxicity	EC50	308 mg/l		Daphnia magna (Big water flea)		OECD 202
96-22-0	pentan-3-one						
	Acute fish toxicity	LC50	1540 mg/l	96 h	Pimephales promelas (fathead minnow)		

#### 12.2. Persistence and degradability

There are no data available on the mixture itself.



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CAS No	Chemical name				
	Method		Value	d	Source
	Evaluation				
78-93-3	butanone				
	OECD 301D		98 %	28	
	Readily biodegradable (according to OECD criteria).				

#### 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
96-22-0	pentan-3-one	0,82

#### 12.4. Mobility in soil

There are no data available on the mixture itself.

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### 12.6. Other adverse effects

No information available.

#### **Further information**

The product has not been tested. The statement is derived from the properties of the single components. Do not allow uncontrolled discharge of product into the environment.

#### **SECTION 13: Disposal considerations**

13.1. Waste treatment methods

#### Advice on disposal

Send to a hazardous waste incinerator facility under observation of official regulations.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

#### Waste disposal number of waste from residues/unused products

WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fine chemicals and chemical 070704 products not otherwise specified; other organic solvents, washing liquids and mother liquors; hazardous waste

#### Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

#### **SECTION 14: Transport information**

l and	transpo	rt (A	DR/	RID)	

<u>14.1. UN number:</u>	UN 1263
14.2. UN proper shipping name:	FARBZUBEHÖRSTOFFE
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Marine transport (IMDG)	
<u>14.1. UN number:</u>	UN 1263
14.2. UN proper shipping name:	PAINT RELATED MATERIAL
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Marine pollutant:	no
Air transport (ICAO-TI/IATA-DGR)	
<u>14.1. UN number:</u>	UN 1263
14.2. UN proper shipping name:	PAINT RELATED MATERIAL
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
14.5. Environmental hazards	
ENVIRONMENTALLY HAZARDOUS:	no
14.6. Special precautions for user	
Additional information: see section 6, 7, 8	



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

not applicable	
SECTION 15: Regulatory information	tion
15.1. Safety, health and environmenta	I regulations/legislation specific for the substance or mixture
EU regulatory information	
2004/42/EC (VOC):	100 %
National regulatory information	
Employment restrictions:	Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
Water contaminating class (D):	1 - slightly water contaminating
15.2. Chemical safety assessment	
For the following substances o butanone pentan-3-one n-butyl acetate	f this mixture a chemical safety assessment has been carried out:
SECTION 16: Other information	
Changes	
Abs. 4, 13, 14, 15, 16 * Data cl	hanged compared with the previous version
Abbreviations and acronyms	
	ice (division of the American Chemical Society)
LD50: lethal dose, 50%	
LC50: lethal concentration, 50 <sup>o</sup> EC50: half maximal effective c	
	au transport international des marchandises Dangereuses par Route (European Agreement
•	arriage of Dangerous Goods by Road)
RID: Règlement concernant le	transport international ferroviaire de marchandises Dangereuses (Regulations Concerning
the International Transport of E	
IMDG: International Maritime C	
ICAO: International Civil Aviatio	
VOC: volatile organic compour	ntion for the Prevention of Marine Pollution from Ships
<b>e</b> 1	evaluation method according to Regulation (EC) No. 1272/2008 [CLP]
Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Eye Irrit. 2; H319	Calculation method
,,	

#### Relevant H and EUH statements (number and full text)

H225Highly flammable liquid and vapour.H226Flammable liquid and vapour.H319Causes serious eye irritation.H335May cause respiratory irritation.H336May cause drowsiness or dizziness.EUH066Repeated exposure may cause skin dryness or cracking.

Calculation method

Calculation method

#### **Further Information**

STOT SE 3; H336

STOT SE 3; H335

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. Restricted to professional users.

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