

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

**die:master thinner**

Print date: 31.01.2013

Product code: 1956-0700

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

#### Product identifier

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

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

#### **Use of the substance/mixture**

die:master thinner

#### 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
Internet:	www.renfert.com	

**Emergency telephone:** Vergiftungs-Zentrale Freiburg  
+49 761 19 240

### SECTION 2: Hazards identification

#### Classification of the substance or mixture

Indications of danger : Highly flammable, Irritant  
R-phrases:  
Highly flammable.  
Irritating to eyes and respiratory system.  
Repeated exposure may cause skin dryness or cracking.  
Vapours may cause drowsiness and dizziness.

#### **GHS classification**

Hazard categories:  
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 respiratory irritation.  
May cause drowsiness or dizziness.

#### Label elements

#### **Hazardous components which must be listed on the label**

butanone; ethyl methyl ketone  
pentan-3-one; diethyl ketone  
n-butyl acetate

Signal word: Danger

Pictograms: GHS02-GHS07

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**Hazard statements**

- |      |                                     |
|------|-------------------------------------|
| H225 | Highly flammable liquid and vapour. |
| H319 | Causes serious eye irritation.      |
| H335 | May cause respiratory irritation.   |
| H336 | May cause drowsiness or dizziness.  |

**Precautionary statements**

- |           |  |
|-----------|--|
| P210      | Keep away from heat/sparks/open flames/hot surfaces. - No smoking. |
| P261      | Avoid breathing dust/fume/gas/mist/vapours/spray.                  |
| P280      | Wear protective gloves and eye/face protection.                    |
| P337+P313 | 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**

- |        |   |
|--------|---|
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
|--------|---|

**Additional advice on labelling**

The R and S phrases can be omitted if the pack contains no more than 0,125 litres.

**SECTION 3: Composition/information on ingredients**
**Mixtures**
**Chemical characterization**

Solvent

**Hazardous components**

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
201-159-0	butanone; ethyl methyl ketone	50 - 70%
78-93-3	F, Xi R11-36-66-67	
606-002-00-3	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336	
202-490-3	pentan-3-one; diethyl ketone	20 - 40%
96-22-0	F, Xi R11-37-66-67	
606-006-00-5	Flam. Liq. 2, STOT SE 3, STOT SE 3; H225 H335 H336	
204-658-1	n-butyl acetate	5 - 15%
123-86-4	R10-66-67	
607-025-00-1	Flam. Liq. 3, STOT SE 3; H226 H336	

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

**SECTION 4: First aid measures**
**Description of first aid measures**
**General information**

Change contaminated clothing.

**After inhalation**

Provide fresh air.

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**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, seek medical treatment.

**After contact with eyes**

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**After ingestion**

Rinse mouth immediately and drink large quantities of water. Do not induce vomiting. Seek medical attention if problems persist.

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

Following symptoms can occur: Vapours may cause drowsiness and dizziness. Process vapours can irritate airways, skin and eyes. Repeated exposure may cause skin dryness or cracking.

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

Treat symptomatically.

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

Extinguishing powder. Carbon dioxide (CO<sub>2</sub>). alcohol resistant foam. Water spray.

**Extinguishing media which must not be used for safety reasons**

High power water jet.

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

Vapours may form explosive mixtures with air.

**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****Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation.  
Wear personal protection equipment.  
Remove all sources of ignition.

**Environmental precautions**

Do not empty into drains or the aquatic environment.

**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 containers for disposal.

**Reference to other sections**

See protective measures under point 7 and 8.

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

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

**Advice on protection against fire and explosion**

Vapours may form explosive mixtures with air.  
Keep away from sources of ignition - No smoking.

**Further information on handling**

In case of open handling, use devices with built-in suction where possible.

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

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

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

CAS No	Chemical name	ml/m <sup>3</sup>	mg/m <sup>3</sup>	F/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	Chemical name	Parameter	Value	Test material	Sampling time
78-93-3	Butan-2-one	butan-2-one	70 µmol/L	urine	Post shift

**Exposure controls****Occupational exposure controls**

refer to chapter 7. No further action is necessary.

**Protective and hygiene measures**

Do not breathe vapour.

Avoid contact with skin, eye and clothing.

Wash hands before breaks and at the end of work.

Keep away from food, drink and animal feedingstuffs.

**Respiratory protection**

Respiratory protection required in case of: insufficient ventilation.

**Hand protection**

Tested protective gloves are to be worn: Suitable material: NBR (Nitrile rubber). Butyl rubber.

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

**Eye protection**

Tightly sealed safety glasses.

**Environmental exposure controls**

Do not empty into drains or the aquatic environment.

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

Physical state:	liquid
Colour:	colourless
Odour:	characteristic

**Test method**

pH-Value:	not applicable
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#### Changes in the physical state

Boiling point: 79 °C

Flash point: - 4 °C

#### Explosive properties

not explosive.

Vapours may form explosive mixtures with air.

Lower explosion limits: 1,2 vol. %

Upper explosion limits: 11,5 vol. %

Ignition temperature: 370 °C

 Density (at 20 °C): 0,7 - 0,9 g/cm<sup>3</sup>

Water solubility: not miscible

Viscosity / dynamic: product has not been tested.

Solvent content: 100%

### SECTION 10: Stability and reactivity

#### Reactivity

Vapours may form explosive mixtures with air.

#### Chemical stability

See chapter 7. No further action is necessary.

#### Possibility of hazardous reactions

Vapours may form explosive mixtures with air.

#### Conditions to avoid

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

#### Incompatible materials

No information available.

#### Hazardous decomposition products

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

### SECTION 11: Toxicological information

#### Information on toxicological effects

##### Acute toxicity

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
96-22-0	pentan-3-one; diethyl ketone				
	oral	LD50	2140 mg/kg	Rat	GESTIS
	dermal	LD50 mg/kg	16300	Rabbit	GESTIS
123-86-4	n-butyl acetate				
	oral	LD50 mg/kg	14000	Ratte	

##### Irritation and corrosivity

Irritant effect on the skin: Not an irritant.

Irritant effect on the eye: irritant.

##### Sensitising effects

no danger of sensitization.

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**Empirical data on effects on humans**

Repeated exposure may cause skin dryness or cracking.  
Vapours may cause drowsiness and dizziness.  
Has de-greasing effect on the skin.

**Further information**

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

**SECTION 12: Ecological information****Toxicity**

CAS No	Chemical name	Method	Dose	h	Species	Source
96-22-0	pentan-3-one; diethyl ketone					
	Acute fish toxicity	LC50	1540 mg/l	96	Pimephales promelas	GESTIS

**Persistence and degradability**

There are no data available on the mixture itself.

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

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

**Mobility in soil**

There are no data available on the mixture itself.

**Results of PBT and vPvB assessment**

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

**Further information**

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

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

Carry out a burning of hazardous waste according to official regulations.

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

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

**Contaminated packaging**

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

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

**UN number:** 1263  
**UN proper shipping name:** FARBZUBEHÖRSTOFFE  
**Transport hazard class(es):** 3  
**Packing group:** II

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**Marine transport**

<b>UN number:</b>	1263
<b>UN proper shipping name:</b>	PAINT RELATED MATERIAL
<b>Transport hazard class(es):</b>	3
<b>Packing group:</b>	II
Marine pollutant:	no

**Air transport**

<b>UN/ID number:</b>	1263
<b>UN proper shipping name:</b>	PAINT RELATED MATERIAL
<b>Transport hazard class(es):</b>	3
<b>Packing group:</b>	II

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

1999/13/EC (VOC): 100 %

**National regulatory information**

Water contaminating class (D): 1 - slightly water contaminating

**Additional information**

M 017 Lösemittel (BGI 621)

M 004 Reizende Stoffe / Ätzende Stoffe (BGI 595)

**SECTION 16: Other information****Full text of R-phrases referred to under sections 2 and 3**

10	Flammable.
11	Highly flammable.
36	Irritating to eyes.
36/37	Irritating to eyes and respiratory system.
37	Irritating to respiratory system.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.

**Full text of H-Statements referred to under sections 2 and 3**

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
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. Reserved for industrial and professional use.

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