



# Safety Data Sheet

according to Regulation (EC) No 1907/2006

**die:master red**

Revision date: 10.09.2025

Product code: 19560200

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

die:master red

**Further trade names**

contained in:

1956 0800 die:master Set red

**1.2. Relevant identified uses of the substance or mixture and uses advised against****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  
E-mail: info@renfert.com  
Contact person: Frau Andris  
E-mail: silke.andris@renfert.com  
Internet: www.renfert.com

**1.4. Emergency telephone number:**

IRL: 01 809 2566 (Healthcare Professionals) | GB: 0044 151 951 3317 (Health and Safety Executive (HSE) Chemicals)

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

Flam. Liq. 2; H225  
Eye Irrit. 2; H319  
STOT SE 3; H335 H336

Full text of hazard statements: see SECTION 16.

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

butanone  
pentan-3-one  
n-butyl acetate

**Signal word:**

Danger

**Pictograms:****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, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing vapours.  
P280 Wear protective gloves and eye protection/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.  
EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

**2.3. Other hazards**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.  
This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

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

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**3.2. Mixtures****Relevant ingredients**

| CAS No     | Chemical name                                                                |              |                  | Quantity  |
|------------|------------------------------------------------------------------------------|--------------|------------------|-----------|
|            | EC No                                                                        | Index No     | REACH No         |           |
|            | Classification (Regulation (EC) No 1272/2008)                                |              |                  |           |
| 78-93-3    | butanone                                                                     |              |                  | 20 - 35 % |
|            | 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 - 35 % |
|            | 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 - 20 %  |
|            | 204-658-1                                                                    | 607-025-00-1 | 01-2119485493-29 |           |
|            | Flam. Liq. 3, STOT SE 3; H226 H336 EUH066                                    |              |                  |           |
| 13463-67-7 | Titanium dioxide                                                             |              |                  | 3 - 10 %  |
|            | 236-675-5                                                                    |              | 01-2119489379-17 |           |
|            |                                                                              |              |                  |           |

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.  
Get medical advice/attention if you feel unwell.

**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 1 glass 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 (CO<sub>2</sub>), 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**

Do not inhale explosion and combustion gases.

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

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

Provide adequate ventilation.



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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

Other information

Absorb with liquid-binding material (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 skin, eyes and clothes.  
Do not eat, drink or smoke when using this product.

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.

Advice on general occupational hygiene

Avoid breathing vapours.  
Avoid contact with skin, eyes and clothes.  
Wash hands before breaks and after work.  
Keep away from food, drink and animal feedingstuffs.

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](http://www.renfert.com)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

| CAS No     | Substance                               | ppm | mg/m³ | fib/cm³ | Category      | Origin |
|------------|-----------------------------------------|-----|-------|---------|---------------|--------|
| 96-22-0    | Diethylketon                            | 200 | 700   |         | TWA (8 h)     |        |
|            |                                         | 250 | 875   |         | STEL (15 min) |        |
| 78-93-3    | Methyl ethyl ketone (MEK) (Butan-2-one) | 200 | 600   |         | TWA (8 h)     |        |
|            |                                         | 300 | 900   |         | STEL (15 min) |        |
| 123-86-4   | n-Butyl acetate                         | 50  | 241   |         | TWA (8 h)     |        |
|            |                                         | 150 | 723   |         | STEL (15 min) |        |
| 96-22-0    | Pentan-3-one                            | 200 | 700   |         | TWA (8 h)     |        |
|            |                                         | 250 | 875   |         | STEL (15 min) |        |
| 13463-67-7 | Titanium dioxide, respirable dust       | -   | 4     |         | TWA (8 h)     |        |
| 13463-67-7 | Titanium dioxide, total inhalable dust  | -   | 10    |         | TWA (8 h)     |        |

Biological limit values

| 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

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**Appropriate engineering controls**

Safe handling: see section 7

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear eye protection/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:  $\geq 60$  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:                                                   | red                           |
| Odour:                                                    | characteristic                |
| Melting point/freezing point:                             | not determined                |
| Boiling point or initial boiling point and boiling range: | 79 °C                         |
| Flammability:                                             | not applicable                |
| Lower explosion limits:                                   | 1,2 vol. %                    |
| Upper explosion limits:                                   | 11,5 vol. %                   |
| Flash point:                                              | - 4 °C                        |
| Auto-ignition temperature:                                | 370 °C                        |
| Decomposition temperature:                                | not determined                |
| pH-Value:                                                 | not applicable                |
| Viscosity / kinematic:                                    | not determined                |
| Water solubility:                                         | Immiscible                    |
| Partition coefficient n-octanol/water:                    | not determined                |
| Vapour pressure:                                          | 105 hPa                       |
| (at 20 °C)                                                |                               |
| Density (at 20 °C):                                       | 0,80 - 1,10 g/cm <sup>3</sup> |

**9.2. Other information****Information with regard to physical hazard classes****Explosive properties**

not explosive.

Vapours can form explosive mixtures with air.

**Other safety characteristics**

Solvent content: &gt; 60 %

Solid content: &lt; 30 %

**Further Information**

No further relevant information available.

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

Vapours can form explosive mixtures with air.

**10.2. Chemical stability**



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The product 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.

### **10.6. Hazardous decomposition products**

No known hazardous decomposition products.

## **SECTION 11: Toxicological information**

### **11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

#### **Acute toxicity**

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

#### **ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

#### **Irritation and corrosivity**

Serious eye damage/eye irritation: Causes serious eye irritation.

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

Repeated exposure may cause skin dryness or cracking.

#### **Sensitising effects**

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

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

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

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

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

#### **STOT-single exposure**

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

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

#### **STOT-repeated exposure**

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

#### **Aspiration hazard**

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

### **11.2. Information on other hazards**

#### **Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

#### **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**

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

### **12.2. Persistence and degradability**

There are no data available on the mixture itself.

### **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. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### **12.7. Other adverse effects**

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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****Disposal recommendations**

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.

**List of Wastes Code - 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 transport (ADR/RID)**

**14.1. UN number or ID number:** UN 1263

**14.2. UN proper shipping name:** FARBE

**14.3. Transport hazard class(es):** 3

**14.4. Packing group:** II

Hazard label: 3

**Marine transport (IMDG)**

**14.1. UN number or ID number:** UN 1263

**14.2. UN proper shipping name:** PAINT

**14.3. Transport hazard class(es):** 3

**14.4. Packing group:** II

Hazard label: 3



Marine pollutant: no

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

**14.1. UN number or ID number:** UN 1263

**14.2. UN proper shipping name:** PAINT

**14.3. Transport hazard class(es):** 3

**14.4. Packing group:** II

Hazard label: 3

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

Further information: see section 6, 7, 8

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

**SECTION 15: Regulatory information**



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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

Directive 2010/75/EU on industrial emissions: approx. 67 - 69 %

Directive 2004/42/EC on VOC in paints and varnishes: approx. 650 g/l

Additional information

REGULATION (EU) 2024/590 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 7 February 2024 on substances that deplete the ozone layer, and repealing Regulation (EC) No 1005/2009: not applicable

REGULATION (EU) 2019/1021 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on persistent organic pollutants: not applicable

Regulation (EU) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals: not applicable

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

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

SECTION 16: Other information

Changes

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

Abbreviations and acronyms

Flam. Liq: Flammable liquid

Eye Irrit: Eye irritation

STOT SE: Specific target organ toxicity - single exposure

PBT: persistent and bioaccumulative and toxic

vPvB: Very persistent and very bioaccumulative

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

ATE: Acute Toxicity Estimate

LD50: lethal dose, 50%

LC50: lethal concentration, 50%

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; H335    | 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.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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



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necessarily valid for the new made-up material. Restricted to professional users.

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