

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

**die:master duo 1956 0600**

Revision date: 17.04.2018

Product code: 19560600

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

#### 1.1. Product identifier

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/silver  
 1957 1000 die:master Set ivory  
 1957 2000 die:master Set aqua

#### 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	

#### Importer:

Ivoclar Vivadent Pty Ltd  
 1- 5 Overseas Drive Noble Park North VIC 3174  
 Tel: + 61 3 9795 9599 Fax: + 61 3 9795 9645  
 Email: info@ivoclarvivadent.com

13 11 26  
 Poisons Hotline (24 hours / 7 days)

#### 1.4. Emergency telephone number:

### 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  
 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:

Danger

##### Pictograms:



##### Hazard statements

H225 Highly flammable liquid and vapour.  
 H319 Causes serious eye 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 dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves and eye/face protection.



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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.

**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**

One-pack coating

**Hazardous components**

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
78-93-3	butanone			< 75 %
	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			10 - 25 %
	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 (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**

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

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

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
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



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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: 79 °C  
Flash point: - 5 °C DIN 51755 (cc)

**Explosive properties**

not explosive.  
Vapours can form explosive mixtures with 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/cm<sup>3</sup>  
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 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 special measures are necessary.

**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.

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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	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

### 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.

### 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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## 12.6. Other adverse effects

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 transport (ADR/RID)

<b>14.1. UN number:</b>	UN 1263
<b>14.2. UN proper shipping name:</b>	FARBE
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	II

### Marine transport (IMDG)

<b>14.1. UN number:</b>	UN 1263
<b>14.2. UN proper shipping name:</b>	PAINT
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	II
Marine pollutant:	no

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

<b>14.1. UN number:</b>	UN 1263
<b>14.2. UN proper shipping name:</b>	PAINT
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	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 Marpol and the IBC Code

not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/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 protection guideline' (94/33/EC).

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

### 15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

butanone

n-butyl acetate

## SECTION 16: Other information

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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.)*