

# SAFETY DATA SHEET



in acc. with Regulation (EU) No. 453/2010

Revision Date: 08.010.2015 Replace Vers. 06.07.2012

**Tradename: MIXOL<sup>®</sup> No. 14 Oxyd-Grün (Oxide Green)**

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## SECTION 1: IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

### 1.1. Product identifier

Tradename: MIXOL<sup>®</sup> No. 14 Oxyd-Grün (Oxide Green)

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

Relevant identified uses of the substance or mixture:

Industry sector: Industrial Performance Chemicals  
Paints, lacquers and varnishes industry  
Polymers industry  
Printing Inks Industry

Type of use: Colourant preparation

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

Identification of the company:

MIXOL-PRODUKTE  
Diebold GmbH  
Carl-Zeiss-Str. 17-19  
73230 Kirchheim/Teck  
Phone: 0049 / 7021 / 950090  
Fax: 0049 / 7021 / 56030

Information to substance / mixture:

Division: Technics  
Phone: +49(0)7021 / 950090  
E-mail: Technik@mixol.de

### 1.4. Emergency telephone number

Emergency CONTACT (24 hours-Number) GBK GmbH +49/(0)6132/84463

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance / mixture

Classification according CLP regulation (Regulation (EC) No. 1272/2008, as amended):

Category of danger	Category Hazard Symbol	H-Phrases
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Not a hazardous substance or mixture.

### 2.2. Label elements

Labelling according CLP regulation (Regulation (EC) No. 1272/2008, as amended):

Not a hazardous substance or mixture.

Additional Labelling:

EUH 208 contains mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one  
2-methyl-4-isothiazolin-3-one and  
1,2-benzisothiazolin-3-one.

May produce an allergic reaction.

### 2.3. Other hazards

No hazards to be specially mentioned.

## SECTION 3: COMPOSITION / INFORMATION TO INGREDIENTS

### 3.1. Mixtures

Chemical characterisation:

C.I. Pigment Green 17, Green 7, Yellow 42, Black 7 and Calciumcarbonat in aqueous dispersion, contenting Polyglykol- and 1,2-Propandiol.

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## Hazardous ingredients:

### **Alcohols, C16-18 and C18-unsaturated, ethoxylated (10-14 EO)**

Concentration:  $\geq 3,8 - < 7,1$  %  
CAS number: 68920-66-1  
EG number: 500-236-9

## GHS classification EC:

Skin irritation	Category 2	H315
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### **C.I. Pigment Green 17**

Concentration:  $\geq 50 - < 70$  %  
CAS number: 1308-38-9  
EC number: 215-160-9  
REACH - Registration no.  
acc. to article 20(3): 01-2119433951-39-0000, 01-2119433951-39-0007,  
01-2119433951-39-0020

### **Cetyltrimethyl ammonium chloride**

Concentration:  $\geq 0,1 - < 1$  %  
CAS number: 112-02-7  
EC number: 203-928-6  
REACH-Registration no.  
acc. to article 20(3): 01-2119970558-23-0000

## GHS classification EC:

Acute toxicity	Category 4	H302
Acute toxicity	Category 3	H311
Skin corrosion	Category 1C	H314
Serious eye damage	Category 1	H318
Acute aquatic toxicity	Category 1	H400
Chronic aquatic toxicity	Category 1	H410
M-Factor (Acute aquatic toxicity) :		10
M-Factor (Chronic aquatic toxicity) :		1

### **Tetrasodium N-(3-carboxylato-1-oxo-3-sulphonatopropyl)-N-octadecyl-DL-aspartate**

Concentration:  $\geq 0,1 - < 1$  %  
CAS number: 38916-42-6  
EC number: 254-187-0

## GHS classification EC:

Chronic aquatic toxicity	Category 2	H411
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### **Aspartic acid, N-(3-carboxy-1-oxo-3-sulfopropyl)-N-octadecenyl-, tetrasodium salt**

Concentration:  $\geq 0,1 - < 1$  %  
CAS number: 81869-18-3  
EC number: 617-265-9

## GHS classification EC:

Chronic aquatic toxicity	Category 2	H411
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The text of H-phrases is shown in section 16.

## **SECTION 4: FIRST AID MEASURES**

### **4.1. Discription of first aid measures**

#### General information:

Get medical advice / attention if you feel unwell.

#### After inhalation:

Move the victim to fresh air.

If you feel unwell, seek medical advice (show the label where possible).

#### After contact with skin:

In case of contact with skin, clean with plenty of soap and water.

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After contact with eyes:

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

After ingestion:

If swallowed, seek medical advice immediately and show this container or label.

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

Symptoms:

None known.

Hazards:

None known.

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

Treatment:

Treat symptomatically.

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## SECTION 5: FIREFIGHTING MEASURES

**5.1. Extinguishing media**

Suitable extinguishing media:

Water spray jet

Dry powder

Carbon dioxide (CO<sub>2</sub>)

Alcohol resistant foam

Extinguishing media that must not be used for safety reasons:

High volume water jet

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

In case of fires, hazardous combustion gases are formed:

Carbon oxides

Nitrogen oxides (NO<sub>x</sub>)

**5.3. Advice for firefighters**

Special protective equipment for firefighting:

Use self-contained breathing apparatus.

Further information:

Wear suitable protective equipment.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Wear suitable personal protective equipment.

**6.2. Environment precautions**

The product should not be allowed to enter drains, water courses or the soil.

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

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Treat recovered material as described in the section "Disposal considerations".

**6.4. Reference to other sections**

Additional information:

Information regarding safe handling, see chapter 7.

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## SECTION 7: HANDLING AND STORAGE

**7.1. Precautions for safe handling**

Advice on safe handling:

When used and handled appropriately no special measures are needed.

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### Hygiene measures:

Wash hands before breaks and at the end of workday.  
Use protective skin cream before handling the product.  
Take off immediately all contaminated clothing and wash it before reuse.

### Advice on protection against fire and explosion:

Normal measures for preventive fire protection.

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

#### Further information on storage conditions:

Keep containers tightly closed in a cool, well-ventilated place.  
Handle and open container with care.  
Keep away from flames and sparks.

#### Storage stability:

Minimum 36 months.

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

No further recommendations.

## **SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **8.1. Control parameters**

#### Exposure limit values:

Exposure limit values are not available.

#### DNEL / DMEL-values:

C.I. Pigment Yellow 42

EC number: 257-098-5

CAS number: 51274-00-1

Route of exposure	Personnel	Exposure time / Effect	Value	Remarks
Inhalation	Workers	Long-term local effects	10 mg/m <sup>3</sup>	DNEL, inhalable dust
Inhalation	Workers	Long-term local effects	3 mg/m <sup>3</sup>	DNEL, inhalable fraction
Inhalation	Workers	Long-term systemic effects	10 mg/m <sup>3</sup>	

Cetyltrimethyl ammonium chloride

EC number: 203-928-6

CAS number: 112-02-7

Route of exposure	Personnel	Exposure time / Effect	Valeu	Remarks
Inhalation	Workers	Long-term systemic effects	3,32 mg/m <sup>3</sup>	DNEL
Dermal	Workers	Long-term systemic effects	4,7 mg/kg bw/day	DNEL
Inhalation	General population	Long-term systemic effects	0,98 mg/m <sup>3</sup>	DNEL
Dermal	General population	Long-term systemic effects	2,83 mg/kg bw/day	DNEL
Oral	General population	Long-term systemic effects	2,83 mg/kg bw/day	DNEL

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C.I. Pigment Green 17

EC number: 215-160-9

CAS number: 1308-38-9

Route of exposure	Personnel	Exposure time / Effect	Valeu	Remarks
Inhalation	Workers	Acute local effects	2 mg/m <sup>3</sup>	DNEL
Inhalation	Workers	Long-term local effects	0,5 mg/m <sup>3</sup>	DNEL

Dolomite

EC number: 240-440-2

CAS number: 16389-88-1

Route of exposure	Personnel	Exposure time / Effect	Valeu	Remarks
Inhalation	Workers	Long-term systemic effects	10 mg/m <sup>3</sup>	DNEL

PNEC-values:

Cetyltrimethyl ammonium chloride

EC number: 203-928-6

CAS number: 112-02-7

Environmental compartment	Personnel / Exposure time / Effect	Value
Fresh water		0,00068 mg/l
Salt water		0,000068 mg/l
Water (intermittente release)		0,0008 mg/l
Sewage treatment plant		0,4 mg/l
Fresh water sediment		9,27 mg/kg dry weight (d.w.)
Marine sediment		0,927 mg/kg dry weight (d.w.)
Soil		7 mg/kg dry weight (d.w.)

C.I. Pigment Green 17

EC number: 215-160-9

CAS number: 1308-38-9

Environmental compartment	Personnel / Exposure time / Effect	Value
Fresh water	chromium	0,0047 mg/l
Salt water	chromium	0,0047 mg/l
Water (intermittente release)	chromium	0,0047 mg/l
Sewage treatment plant		10 mg/l
Fresh water sediment	chromium	18,2 mg/kg dry weight (d.w.)
Marine sediment	chromium	1,31 mg/kg dry weight (d.w.)
Soil	chromium	3,2 mg/kg dry weight (d.w.)

## 8.2. Exposure controls

General protective measures:

Wear suitable protective equipment.

Respiratory protection:

Yes, if TLV value is exceeded.

Hand protection:

Nitrile rubber

Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

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Eye protection:

Safety glasses

Body protection:

Wear suitable protective equipment.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Physical state:	liquid
Form:	liquid
Colour:	green
Odour:	not significant
Odour threshold:	not required
pH value:	not measured
Melting point:	not applicable
Boiling point:	approx. 100 °C
Flash point:	> 100 °C
Evaporation rate:	not determined
Flammability:	not determined
Lower explosion limit:	not determined
Upper explosive limit:	not determined
Combustion number:	not applicable
Minimum ignition energy:	not determined
Vapour pressure:	not determined
Vapour density relative to air:	not determined
Relative Density:	no data available
Solubility in water:	miscible
Octanol/ water partition coefficient (log Pow):	not determined
Ignition temperature:	not determined
Thermal decomposition:	> 100 °C
Viscosity (dynamic):	not tested
Oxidizing properties:	no data available

#### 9.2. Other information

Density:	1,70 g/cm <sup>3</sup> (20 °C)
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### SECTION 10: STABILITY AND REACTIVITY

#### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

#### 10.2. Chemical Stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.  
Stable.

#### 10.4. Conditions to avoid

None known.

#### 10.5. Incompatible Materials

No data available.

#### 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

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## SECTION 11: TOXICOLOGIC INFORMATION

### 11.1. Information on toxicological effects

Acute dermal toxicity:	no data available
Acute oral toxicity:	Acute toxicity estimate > 2.000 mg/kg Method: Calculation method
Acute inhalation toxicity:	Acute toxicity estimate > 20 mg/l (4 h) Method: Calculation method
Irritant effect on skin:	No skin irritation (EPISKIN Human Skin Model Test) Method: OECD Test Guideline 439 The toxicological data has been taken from products of similar composition.
Irritant effect on eyes:	No eye irritation (Bovine cornea) Method: OECD Test Guideline 437 The toxicological data has been taken from products of similar composition. No eye irritation (rabbit eye) Method: OECD Test Guideline 405 The toxicological data has been taken from products of similar composition.
Sensitization:	no data available
Repeated dose toxicity:	This information is not available.
Genetic toxicity in vitro:	no data available
Assessment of mutagenicity:	no information available
Assessment of carcinogenicity:	no information available
Assessment of toxicity to reproduction:	no information available
Specific target organ toxicity (STOT) - single exposure:	no data available
Specific target organ toxicity (STOT) - repeated exposure:	no data available
Aspiration hazard:	no data available
<u>Information related to the component:</u>	<u>Cetyltrimethyl ammonium chloride:</u>
Acute dermal toxicity:	LD50 ca. 528 mg/kg (Rabbit) Method: OECD Test Guideline 402 By analogy with a product of similar composition.
<u>Information related to the component:</u>	<u>C.I. Pigment Green 17:</u>
Acute inhalation toxicity:	LC50 > 5,41 mg/l (4 h, Rat) Method: OECD Test Guideline 403
Irritant effect on skin:	No skin irritation (Rabbit) Method: OECD Test Guideline 404
Irritant effect on eyes:	No eye irritation (Rabbit) Method: OECD Test Guideline 405
Sensitization:	non-sensitizing (Guinea pig) Method: OECD Test Guideline 406
Repeated dose toxicity:	Route of application: Oral NOAEL: 2.000 mg/kg (Rat) Route of application: Inhalation LOAEL: 0,044 mg/l (Rat)

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### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1. Toxicity:

Information related to the product itself:

Fish toxicity: no data available

Fish toxicity (chronic): no data available

Daphnia toxicity: no data available

Algae toxicity: no data available

Bacteria toxicity: no data available

Information related to the component: C.I. Pigment Green 17

Fish toxicity: LC50 > 10.000 mg/l (Danio rerio (zebra fish))  
Method: ISO 7346/1

Algae toxicity: 0,47 mg/l (Desmodesmus subspicatus (green algae))  
Method: OECD Test Guideline 201

#### 12.2. Persistence and degradability

Information related to the product itself:

Biodegradability: no data available

#### 12.3. Bioaccumulative potential

Information related to the product itself:

Bioaccumulation: no data available

Information related to the component: C.I. Pigment Green 17

Bioaccumulation: Bioaccumulation is unlikely.

#### 12.4. Mobility in soil

Information related to the product itself:

Behaviour in environmental  
compartments: no data available

Information related to the component: C.I. Pigment Green 17

Transport and distribution between  
environmental compartments: no data available

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

Information related to the product itself:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0,1 % or higher.

#### 12.6. Other adverse effects

Information related to the product itself:

Additional ecotoxicological remarks: no data available

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### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

Product:

Dispose of in accordance with the European Directives on waste and hazardous waste.

Uncleaned packaging:

This material and its container must be disposed of in a safe way.

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### SECTION 14: TRANSPORT INFORMATION

#### 14.1. to 14.5.

ADR: not restricted

ADN: not restricted

RID: not restricted



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IATA: not restricted

IMDG: not restricted

### 14.6. Special precautions for users

See sections 6 to 8 of this Safety Data Sheet.

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No transport as bulk according IBC-Code.

## SECTION 15: REGULATORY INFORMATION

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

#### Other regulations:

Apart from the data/regulations specified in this chapter, no further information is available concerning safety, health and environmental protection.

### 15.2. Chemical safety assessment

No Chemical Safety Assessment (CSA) is yet available for the substance, or for the component substances, contained in this product.

## SECTION 16: OTHER INFORMATION

Observe the legal requirements nationally and locally.

### List of the text of the hazard statements mentioned section 3 (H-phrases) :

H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

### Change compared to the previous version:

Change in the composition

#### Legend

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AOX	Adsorbable organic bound halogens
CAS	Chemical Abstracts Service
DMEL	Derived Minimal Effect Level (genotoxic substances)
DNEL	Derived No Effect Level
EC50	Half maximal effective concentration
GHS	Globally Harmonized System
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Lethal Concentration 50 %
LD50	Lethal Dose 50 %
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOEC	Non Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	Persistent, Bioaccumulative, Toxic
PEC	Predicted Environmental Concentration
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals

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RID	International Rule for Transport of Dangerous Substances by Railway
SVHC	Substances of Very High Concern
vPvB	very Persistent and very Bioaccumulative

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Decimal notation: "thousands" places are identified with a dot (for example, "2.000 mg/kg" means "two thousand mg/kg"). Decimal places are identified with a comma (for example, "1,35 g/cm<sup>3</sup>" means "one point three five g/cm<sup>3</sup>").

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. MIXOL-PRODUKTE Diebold GmbH makes no warranties, express or implied, as to the information accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of MIXOL products for its particular application. Nothing included in this information waives any of MIXOL's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing.

Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change.

Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing MIXOL products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products.

For additional information, please contact MIXOL-PRODUKTE Diebold GmbH.