SAFETY DATA SHEET



in acc. with Regulation (EU) No. 453/2010 Revision Date: 08.09.2015 Replace Vers. 06.07.2012

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

1.1. Product identifier

Tradename: MIXOL® No. 3 Oxyd-Rehbraun (Oxide Brown)

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

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 Yellow 42, Red 101, Black 26, 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: >= 6,4 - < 12,1 % CAS number: 68920-66-1 EG number: 500-236-9

GHS classification EC:

Skin irritation Category 2 H315

Cetyltrimethyl ammonium chloride

Concentration: >= 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

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 (Acute aquatic toxicity): 10
M-Factor (Chronic aquatic toxicity): 1

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.

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.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

Water spray jet

Dry powder

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Carbon dioxide (CO₂) 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_x)

5.3. Advice for firefighters

Special protective equipment for firefighting:

Use self-contained breathing apparatus.

Further information:

Wear suitable protective equipment.

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.

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.

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.

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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 ³	DNEL, inhalable dust
Inhalation	Workers	Long-term local effects	3 mg/m ³	DNEL, inhalable fraction
Inhalation	Workers	Long-term systemic effects	10 mg/m ³	

Iron(III)oxide

EC number: 215-168-2 CAS number: 1309-37-1

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

Cetyltrimethyl ammonium chloride EC number: 203-928-6 CAS number: 112-02-7

Route of exposure	Personnel	Exposure time / Effect	Value	Remarks
Inhalation	Workers	Long-term systemic effects	3,32 mg/m ³	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 ³	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

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.)

8.2. Exposure controls

Appropriate engineering controls:

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

General protective measures:

Wear suitable protective equipment.

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Respiratory protection:

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

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).

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: brown

Odour:
Odour threshold:
pH value:
Melting point:
Boiling point:
Plash point:

not significant
not required
not measured
not applicable
approx. 100 °C
> 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 lgnition temperature: not determined Thermal decomposition: > 100 °C Viscosity (dynamic): not tested

Oxidizing properties: no data available

9.2. Other information

Density: 1,67 g/cm³ (20 °C)

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.

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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.

SECTION 11: TOXICOLOGIC INFORMATION

11.1. Information on toxicological effects

Acute oral toxicity: no data available

Acute dermal toxicity: Acute toxicity estimate > 2.000 mg/kg

Method: Calculation method

Acute inhalation toxicity: no data available

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

Information related to the component: Cetyltrimethyl ammonium chloride

Acute dermal toxicity: LD50 ca. 528 mg/kg (Rabbit)

Method: OECD Test Guideline 402

By analogy with a product of similar composition.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:

Information related to the product itself:

Fish toxicity:

Fish toxicity (chronic):

Daphnia toxicity:

Algae toxicity:

Bacteria toxicity:

no data available
no data available
no data available
no data available

12.2. Persistence and degradability

Information related to the product itself:

Biodegradability: no data available

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12.3. Bioaccumulative potential

Information related to the product itself:

Bioaccumulation: no data available

12.4. Mobility in soil

Information related to the product itself:

Behaviour in 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

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.

SECTION 14: TRANSPORT INFORMATION

14.1. to 14.5.

ADR: not restricted
ADN: not restricted
RID: not restricted
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.

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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.

Change compared to the previous version:

Change in the composition

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
RID International Rule for Transport of Dangerous Substances by Railway

SVHC Substances of Very High Concern

vPvB very Persistent and very Bioaccumulative

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/cm³" means "one point three five g/cm³").

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