

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**MIXOL® Nr. 24 Oxyd-Steingrau**

Revision date: 03/16/2023

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**1. Identification****Product identifier**

MIXOL® Nr. 24 Oxyd-Steingrau

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

Color, Pigment

**Details of the supplier of the safety data sheet**

Company name: MIXOL-PRODUKTE Diebold GmbH  
 Street: Carl-Zeiss-Str. 17-19  
 Place: D-73230 Kirchheim/Teck  
 Telephone: +49/(0)7021 / 950090      Telefax: +49/(0)7021 / 56030  
 e-mail: info@mixol.de  
 e-mail (Contact person): Technik@mixol.de  
 Internet: www.mixol.de  
 Responsible Department: Technik

**Emergency phone number:** Emergency CONTACT (24 h) GBK/Infotrac ID 107633 (USA Domestic):  
18005355053

**2. Hazard(s) identification****Classification of the chemical****29 CFR Part 1910.1200**

This mixture is not classified as hazardous in accordance with Regulation 29 CFR 1910.1200(d).

**Label elements****Additional advice on labelling**

GHS label elements, including precautionary statements: none/none

**Hazards not otherwise classified**

May cause an allergic skin reaction. (1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))

**3. Composition/information on ingredients****Mixtures****Hazardous components**

| CAS No     | Components                                    | Quantity |
|------------|---|----------|
| 68186-94-7 | Manganese ferrite black spinel                | 40.54 %  |
| 68920-66-1 | Alcohols, C16-18 and C18-unsatd., ethoxylated | 8.329 %  |
| 68920-66-1 | Alcohols, C16-18 and C18-unsatd., ethoxylated | 1.524 %  |

**4. First-aid measures****Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice.

**After inhalation**

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Get medical advice/attention.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated

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clothing and wash it before reuse. In case of skin reactions, consult a physician.

### **After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

### **After ingestion**

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink plenty of water. Get medical advice/attention.

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

No information available.

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

Treat symptomatically.

## 5. Fire-fighting measures

### **Extinguishing media**

#### **Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.  
Water spray jet, Extinguishing powder, Carbon dioxide (CO<sub>2</sub>), alcohol resistant foam.

#### **Unsuitable extinguishing media**

Full water jet

### **Specific hazards arising from the chemical**

Non-flammable. In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>).

### **Special protective equipment and precautions for fire-fighters**

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

#### **Additional information**

Use water spray/stream to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## 6. Accidental release measures

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

#### **General advice**

Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes and clothes.

#### **For non-emergency personnel**

Provide adequate ventilation. Use personal protection equipment.

#### **For emergency responders**

Wear personal protection equipment (refer to section 8).

### **Environmental precautions**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### **Methods and material for containment and cleaning up**

#### **For containment**

Stop leak if safe to do so. Cover drains.

#### **For cleaning up**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### **Other information**

Clean contaminated articles and floor according to the environmental legislation.

### **Reference to other sections**

Safe handling: see section 7

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Personal protection equipment (PPE): see section 8

Disposal: see section 13

### 7. Handling and storage

#### Precautions for safe handling

##### Advice on safe handling

Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe dust/fume/gas/mist/vapors/spray. Use personal protection equipment.

##### Advice on protection against fire and explosion

Usual measures for fire prevention. Keep away from sources of ignition - No smoking.

##### Advice on general occupational hygiene

Take off contaminated clothing and wash it before reuse. Wash hands before breaks and after work. Draw up and observe skin protection programme. Use protective skin cream before handling the product. When using do not eat, drink, smoke, sniff.

##### Further information on handling

Handle and open container with care.

#### Conditions for safe storage, including any incompatibilities

##### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

##### Hints on joint storage

No information available.

##### Further information on storage conditions

storage stability: >= 36 month(s)

### 8. Exposure controls/personal protection

#### Control parameters

#### Exposure limits

| CAS No    | Substance  | ppm | mg/m <sup>3</sup> | f/cc | Category      | Origin     |
|-----------|--|-----|-------------------|------|---------------|------------|
| 1309-37-1 | Iron oxide (Fe <sub>2</sub> O <sub>3</sub> ) (respirable fraction) |     | 5                 |      | TWA (8 h)     | ACGIH-2022 |
| 1309-37-1 | Iron oxide dust and fume (as Fe)                                   | -   | 5                 |      | TWA (8 h)     | REL        |
| 1309-37-1 | Iron oxide fume  | -   | 10                |      | TWA (8 h)     | REL        |
| 7439-96-5 | Manganese compounds (as Mn)  | -   | C 5               |      | Ceiling       | REL        |
| 7439-96-5 | Manganese compounds and fume (as Mn)                               | -   | 1                 |      | TWA (8 h)     | REL        |
|           |  | -   | 3                 |      | STEL (15 min) | REL        |
| -         | Manganese inorganic compounds (inhalable fraction), as Mn          |     | 0.1               |      | TWA (8 h)     | ACGIH-2022 |
| -         | Manganese inorganic compounds (respirable fraction), as Mn         |     | 0.02              |      | TWA (8 h)     | ACGIH-2022 |
| 7631-86-9 | Silica, amorphous  | -   | 6                 |      | TWA (8 h)     | REL        |

#### Exposure controls



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**Appropriate engineering controls**

Provide adequate ventilation as well as local exhaust at critical locations.

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

Wear eye protection/face protection.

**Hand protection**

Wear protective gloves.

Suitable material: NBR (Nitrile rubber)

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. 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. Breakthrough times and swelling properties of the material must be taken into consideration.

**Skin protection**

Use of protective clothing.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

**Thermal hazards**

No information available.

**Environmental exposure controls**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

|   |                     |                       |
|---|---------------------|-----------------------|
| Physical state:   | Liquid (Dispersion) |                       |
| Color:  | gray                |                       |
| Odor:   | odorless            |                       |
| Odour threshold:  | not applicable      |                       |
| Melting point/freezing point:                             |                     | not determined        |
| Boiling point or initial boiling point and boiling range: |                     | 100 °C                |
| Flammability:   |                     | Non-flammable.        |
| Lower explosion limits:                                   |                     | not determined        |
| Upper explosion limits:                                   |                     | not determined        |
| Flash point:  |                     | > 100 °C              |
| Auto-ignition temperature:                                |                     | not determined        |
| Decomposition temperature:                                |                     | > 100 °C              |
| pH-Value:   |                     | not determined        |
| Viscosity / kinematic:                                    |                     | not determined        |
| Water solubility:   |                     | miscible              |
| Solubility in other solvents                              |                     |                       |
| not determined  |                     |                       |
| Partition coefficient n-octanol/water:                    |                     | not determined        |
| Vapor pressure:   |                     | not determined        |
| Density (at 20 °C):                                       |                     | 2,0 g/cm <sup>3</sup> |
| Relative vapour density:                                  |                     | not determined        |
| Particle characteristics:                                 |                     | not applicable        |

**Other information****Further Information**

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No information available.

**10. Stability and reactivity****Reactivity**

No hazardous reaction when handled and stored according to provisions.

**Chemical stability**

Stability: Stable

The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**

Hazardous reactions: Will not occur

No known hazardous reactions.

**Conditions to avoid**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Incompatible materials**

No information available.

**Hazardous decomposition products**In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>).**11. Toxicological information****Route(s) of Entry**

oral, inhalative, Skin contact, Eye contact

**Information on toxicological effects****Acute toxicity**

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

ATEmix calculated:

oral: &gt; 2000 mg/kg

dermal: &gt; 2000 mg/kg

Inhalation (vapour): &gt;20 mg/l (4 h)

Inhalation (dust/mist): &gt; 5 mg/l (4h)

| CAS No     | Components                                    |               |         |        |        |
|------------|---|---------------|---------|--------|--------|
|            | Exposure route                                | Dose          | Species | Source | Method |
| 68920-66-1 | Alcohols, C16-18 and C18-unsatd., ethoxylated |               |         |        |        |
|            | oral  | ATE 500 mg/kg |         |        |        |

**Irritation and corrosivity**

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

Skin corrosion/irritation:

Result / evaluation: Not an irritant. (Rabbit)

Method: OECD 404

Test was carried out with a similar formulation. (By analogy)

Serious eye damage/eye irritation:

Result / evaluation: Not an irritant. (Rabbit)

Method: OECD 405

Test was carried out with a similar formulation. (By analogy)

**Sensitizing effects**

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

May cause an allergic skin reaction. (1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))

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

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

### **Specific target organ toxicity (STOT) - single exposure**

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

### **Specific target organ toxicity (STOT) - repeated exposure**

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

Carcinogenicity (IARC): Ferric oxide (CAS 1309-37-1) is listed in group 3.

### **Aspiration hazard**

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

### **Information on other hazards**

#### **Endocrine disrupting properties**

No information available.

## 12. Ecological information

### **Ecotoxicity**

The product is not: Ecotoxic.

### **Persistence and degradability**

The product has not been tested.

### **Bioaccumulative potential**

The product has not been tested.

### **Mobility in soil**

The product has not been tested.

### **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.

### **Other adverse effects**

No information available.

### **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## 13. Disposal considerations

### **Waste treatment methods**

#### **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

#### **RCRA Hazardous wastes (Resource Conservation and Recovery Act)**

None

#### **Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## 14. Transport information

### **U.S. DOT 49 CFR 172.101**

#### **Proper shipping name:**

No dangerous good in sense of this transport regulation.

#### **Marine transport (IMDG)**

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|   |  |
|---|--|
| <b><u>UN number or ID number:</u></b>     | No dangerous good in sense of this transport regulation. |
| <b><u>UN proper shipping name:</u></b>    | No dangerous good in sense of this transport regulation. |
| <b><u>Transport hazard class(es):</u></b> | No dangerous good in sense of this transport regulation. |
| <b><u>Packing group:</u></b>              | No dangerous good in sense of this transport regulation. |

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

|   |  |
|---|--|
| <b><u>UN number or ID number:</u></b>     | No dangerous good in sense of this transport regulation. |
| <b><u>UN proper shipping name:</u></b>    | No dangerous good in sense of this transport regulation. |
| <b><u>Transport hazard class(es):</u></b> | No dangerous good in sense of this transport regulation. |
| <b><u>Packing group:</u></b>              | No dangerous good in sense of this transport regulation. |

**Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**Special precautions for user**

No information available.

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

not applicable

**15. Regulatory information****U.S. Regulations****National Inventory TSCA**

CAS No. 68186-94-7: Yes.  
 CAS No. 1317-65-3: Yes.  
 CAS No. 68920-66-1: Yes.  
 Silica, amorphous: Yes.  
 CAS No. 1309-37-1: Yes.  
 CAS No. 2634-33-5: Yes.  
 CAS No. 55965-84-9: Yes.

**National regulatory information**

SARA Section 304 CERCLA:  
 Manganese compounds (-): Reportable quantity = &  
 SARA Section 311/312 Hazards:  
 Alcohols, C16-18 and C18-unsatd., ethoxylated (68920-66-1): Immediate (acute) health hazard  
 SARA Section 313 Toxic release inventory:  
 Manganese compounds (-): De minimis limit = 1.0 %, Reportable threshold = Standard  
 Clean Air Act Section 112(b):  
 Manganese compounds (-), Manganese compounds (-)

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**16. Other information****Hazardous Materials Information Label (HMIS)**

Health: \*1  
 Flammability: 1  
 Physical Hazard: 0

**NFPA Hazard Ratings**

Health: 1  
 Flammability: 1  
 Reactivity: 0  
 Unique Hazard:



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**Changes**

Revision date: 03/16/2023

Revision No: 1,3

This data sheet contains changes from the previous version in section(s): 6,9,12,15.

**Abbreviations and acronyms**

ACGIH: American Conference of Governmental Industrial Hygienists

CFR: Code of Federal Regulations

DOT: Department of Transportation

ICAO: International Civil Aviation Organization

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IARC: International Agency for Research on Cancer

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service

NFPA: National Fire Protection Association

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: permissible exposure limit

REL: recommended exposure limit

SARA: Superfund Amendments and Reauthorization Act

STEL: Short-term exposure limit

TSCA: Toxic Substances Control Act

TWA: time-weighted average

TI: Technical Instructions

DGR: Dangerous Goods Regulations

UN: United Nations

ATE: Acute toxicity estimate

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

VOC: Volatile Organic Compounds

**Other data**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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