



# Safety Data Sheet

according to 29 CFR 1910.1200(g)

## MIXOL® Nr. 31 Oxyd-Brillant-Grün

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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
1317-65-3	Calcium carbonate (resp)	-	5		TWA (8 h)	REL
1317-65-3	Calcium Carbonate Respirable fraction	-	5		TWA (8 h)	PEL
-	Cobalt inorganic compounds, as Co (inhalable particulate matter)		0.02		TWA (8 h)	ACGIH-2022
-	Nickel insoluble inorganic compounds (not otherwise specified) (inhalable fraction), as Ni		0.2		TWA (8 h)	ACGIH-2022
7440-02-0	Nickel metal and other compounds (as Ni)	0.015	-		TWA (8 h)	REL
7440-02-0	Nickel, metal and insoluble compounds (as Ni)	-	1		TWA (8 h)	PEL
112926-00-8	Silica, amorphous, precipitated and gel	706	(Z-3)		TWA (8 h)	PEL
7631-86-9	Silica, amorphous	-	6		TWA (8 h)	REL

#### Biological Exposure Indices (BEI-ACGIH)

CAS No	Substance	Determinant	Value	Test material	Sampling time
-	COBALT, INORGANIC COMPOUNDS, including Cobalt oxides but not combined with Tungsten carbide	Cobalt	15 µg/L	urine	End of shift at end of workweek

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**Exposure controls****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:	green	
Odor:	odorless	
Odour threshold:	not determined	
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

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Density (at 20 °C):	2,04 g/cm <sup>3</sup>
Relative vapour density:	not determined
Particle characteristics:	not applicable

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

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)

**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**

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))

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#### 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): Silica, amorphous (CAS 7631-86-9) is listed in group 3.

#### Aspiration hazard

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

## 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.

##### 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)

##### UN number or ID number:

No dangerous good in sense of this transport regulation.

##### UN proper shipping name:

No dangerous good in sense of this transport regulation.

##### Transport hazard class(es):

No dangerous good in sense of this transport regulation.

##### Packing group:

No dangerous good in sense of this transport regulation.

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

##### UN number or ID number:

No dangerous good in sense of this transport regulation.

##### UN proper shipping name:

No dangerous good in sense of this transport regulation.

##### Transport hazard class(es):

No dangerous good in sense of this transport regulation.

##### Packing group:

No dangerous good in sense of this transport regulation.

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**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. 68186-85-6: Yes.

CAS No. 68920-66-1: Yes.

CAS No. 1317-65-3: Yes.

Silica, amorphous: Yes.

CAS No. 2634-33-5: Yes.

CAS No. 55965-84-9: Yes.

**National regulatory information**

SARA Section 304 CERCLA:

Cobalt compounds (inorganic compounds) (-): Reportable quantity = &amp;

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:

Cobalt compounds (inorganic compounds) (-): De minimis limit = 0.1 %, Reportable threshold = Standard

Clean Air Act Section 112(b):

Cobalt compounds (inorganic compounds) (-)

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

WARNING: This product can expose you to chemicals including Nickel (insoluble compounds) (cancer), which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**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:

**Changes**

Revision date: 03/14/2023

Revision No: 1,3

This data sheet contains changes from the previous version in section(s): 2,3,6,9,12,15,16.

**Abbreviations and acronyms**

ACGIH: American Conference of Governmental Industrial Hygienists

CFR: Code of Federal Regulations

DOT: Department of Transportation

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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.)*