

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



**Trade name :** Bronze Oxide 4727  
light blue  
**Revision date :** 14.12.2020  
**Print date :** 14.12.2020

**Version (Revision) :** 14.0.4 (14.0.3)

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

### 1.1 Product identifier

Bronze Oxide 4727  
light blue (15060000000038)  
Unique Formula Identifier (UFI): WQGD-T0E2-70F1-W9PP

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

**Relevant identified uses**

Industrial marking ink

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

#### Supplier (manufacturer/importer/only representative/downstream user/distributor)

Stefan Kupietz GmbH & Co. KG  
Chemische Fabrik

**Street :** August-Wilhelm-Kühnholz-Str. 9

**Postal code/city :** 26135 Oldenburg

**Telephone :** +49(0)441/20 69 50

**Telefax :** +49(0)441 /20 69 520

**Information contact :** E-Mail: info@kupietz.de

### 1.4 Emergency telephone number

Poison emergency centre +49-551-19240

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [CLP]

Acute Tox. 4 ; H332 - Acute toxicity (inhalative) : Category 4 ; Harmful if inhaled.  
Skin Corr. 1A ; H314 - Skin corrosion/irritation : Category 1A ; Causes severe skin burns and eye damage.  
Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.  
Aquatic Chronic 2 ; H411 - Hazardous to the aquatic environment : Chronic 2 ; Toxic to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

##### Hazard pictograms



Corrosion (GHS05) · Environment (GHS09) · Exclamation mark (GHS07)

##### Signal word

Danger

##### Hazard components for labelling

NITRIC ACID 24 % ; CAS No. : 7697-37-2

##### Hazard statements

H314 Causes severe skin burns and eye damage.  
H332 Harmful if inhaled.  
H411 Toxic to aquatic life with long lasting effects.

##### Precautionary statements

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P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash affected areas thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P310 Immediately call a POISON CENTER/doctor.  
P321 Specific treatment (see information on this label).  
P405 Store locked up.

## 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

NITRIC ACID ; REACH Registration No. : 01-2119487297-23-xxxx ; EC No. : 231-714-2; CAS No. : 7697-37-2

Weight fraction : < 25 %

Classification 1272/2008 [CLP] : Ox. Liq. 2 ; H272 Met. Corr. 1 ; H290 Acute Tox. 3 ; H331 Skin Corr. 1A ; H314 Eye Dam. 1 ; H318

Specific Conc. Limits : Ox. Liq. 2 ; H272: C ≥ 99 % • Ox. Liq. 3 ; H272: C ≥ 65 % • Skin Corr. 1A ; H314: C ≥ 20 % • Eye Dam. 1 ; H318: C ≥ 5 % • Skin Corr. 1B ; H314: C ≥ 5 % • Skin Corr. 1C ; H314: C ≥ 5 % • Eye Irrit. 2 ; H319: C ≥ 1 % • Skin Irrit. 2 ; H315: C ≥ 1 %

COPPER SULPHATE ; REACH Registration No. : 01-2119520566-40-xxxx ; EC No. : 231-847-6; CAS No. : 7758-98-7

Weight fraction : < 10 %

Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

SELENOUS ACID ; EC No. : 231-974-7; CAS No. : 7783-00-8

Weight fraction : < 5 %

Classification 1272/2008 [CLP] : Acute Tox. 3 ; H301 Acute Tox. 3 ; H331 STOT RE 2 ; H373 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

#### Additional information

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Immediately remove all contaminated clothing.

#### Following inhalation

Provide fresh air. Rinse mouth with cold water. Take the casualty into the fresh air and keep warm.

#### In case of skin contact

Flush with plenty of water.

#### After eye contact

Flush with plenty of water (10 - 15 min.). Call a physician.

#### After ingestion

Drink plenty of water. Do NOT induce vomiting.

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

No information available.

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

None

## SECTION 5: Firefighting measures

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## 5.1 Extinguishing media

### Suitable extinguishing media

alcohol resistant foam , Carbon dioxide (CO<sub>2</sub>) , Extinguishing powder or Water spray jet .

## 5.2 Special hazards arising from the substance or mixture

None

## 5.3 Advice for firefighters

None

## 5.4 Additional information

Cool endangered containers with water in case of fire.

## SECTION 6: Accidental release measures

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

Provide for sufficient ventilation.

### 6.2 Environmental precautions

Take up with a liquid absorbing material and proceed according to the waste disposal regulations. Do not allow to enter into surface water or drains. Dilute with plenty of water. Use chemical neutralizer.

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

#### For cleaning up

Remove mechanically, take-up residues with absorbing material.

### 6.4 Reference to other sections

None

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Normal precautions taken when handling chemicals should be observed. Avoid contact with skin and eyes. Only use in locations with adequate suction ventilation.

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

#### Technical measures and storage conditions

Do not leave vessels open, earth storage containers.

#### Hints on joint storage

Store the foodstuffs separately. Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

**Storage class (TRGS 510) :** 8A

#### Further information on storage conditions

Store containers tightly closed in a cool well ventilated place.

### 7.3 Specific end use(s)

None

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

NITRIC ACID ; CAS No. : 7697-37-2

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 1 ppm / 2,6 mg/m<sup>3</sup>

Version : 29.03.2019

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Limit value type (country of origin) : STEL ( EC )  
Limit value : 1 ppm / 2,6 mg/m<sup>3</sup>  
Version : 20.06.2019

## 8.2 Exposure controls

### Personal protection equipment

#### Eye/face protection

Use tightly fitting safety glasses.

#### Skin protection

##### Hand protection

**Suitable gloves type :** Use protective butyl rubber gloves (0,5 mm). Permeation time of glove material: level  $\geq$  240 min (4h) EN374, EN 388 and EN 420

#### Respiratory protection

None, but avoid breathing vapours if possible.

### General information

The usual precautionary measures for the handling of chemicals have to be observed.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance :** Liquid  
**Colour :** light blue  
**Odour :** stinging

#### Safety characteristics

**Physical state :** Liquid

**Freezing point :** No data available

**Initial boiling point and boiling range :** ( 1013 hPa ) > 100 °C

**Decomposition temperature :** > 200 °C

**Flash point :** > 61 °C Brookfield

**Auto-ignition temperature :** No data available

**Lower explosion limit :** No data available

**Upper explosion limit :** No data available

**Vapour pressure :** ( 50 °C ) < 20 hPa

**Density :** ( 20 °C ) ~ 1,124 g/cm<sup>3</sup>

**Solvent separation test :** ( 20 °C ) < 3 %

**Water solubility :** ( 20 °C ) No data available

**pH :** ( 20 °C / 5 Wt % ) ~ 1

**log P O/W :** No data available

**Flow time :** ( 20 °C ) ~ 11 s DIN-cup 4 mm

**Odour threshold :** No data available

**Relative vapour density :** ( 20 °C ) No data available

**Vapourisation rate :** No data available

**Flammable aerosols :** No data available.

**Oxidising liquids :** No data available.

**Explosive properties :** No data available.

### 9.2 Other information

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The physical specifications are approximate values and refer to the used safety relevant component(s).

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

No information available.

### 10.3 Possibility of hazardous reactions

No information available.

### 10.4 Conditions to avoid

None, if handled according to order. In connection with inorganic and organic acids, acid chlorides violent reactions can take place and CO<sub>2</sub> released.

### 10.5 Incompatible materials

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. Formation of hydrogen by acids, lyes, moisture possible.

### 10.6 Hazardous decomposition products

No information available.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Acute oral toxicity

Parameter : LD50 ( COPPER SULPHATE ; CAS No. : 7758-98-7 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 300 mg/kg

##### Acute dermal toxicity

##### Practical experience/human evidence

The product causes skin corrosions, and it causes serious damage to eyes. Danger of irritation to eyes, nose, throat and the air passages.

##### Acute inhalation toxicity

##### Practical experience/human evidence

Slight narcotic effect. Prolonged inhalation of vapours in high concentrations may lead to headache, giddiness and nausea.

## SECTION 12: Ecological information

### 12.1 Toxicity

No information available.

### 12.2 Persistence and degradability

In case of appropriate conduction into adapted biological purification plants no disturbances have to be expected.

### 12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

### 12.4 Mobility in soil

Very high mobility in soil with a negligible tendency to leave the sediment.

### 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.

## 12.7 Additional ecotoxicological information

Do not empty into waters or drains.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Dispose according to legislation.

#### Directive 2008/98/EC (Waste Framework Directive)

##### After intended use

##### Waste codes/waste designations according to EWC/AVV

- 080111

##### Additional information

Contaminated packaging should be residue-free emptying. They can then be recycled after appropriate cleaning (Waste code 080112 contains no organic solvents). Contaminated packaging should be disposed of like the product. (Waste code 150110)

## SECTION 14: Transport information

### 14.1 UN number

UN 3264

### 14.2 UN proper shipping name

#### Land transport (ADR/RID)

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. ( NITRIC ACID )

#### Sea transport (IMDG)

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. ( NITRIC ACID · COPPER SULPHATE · SELENOUS ACID )

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

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. ( NITRIC ACID )

### 14.3 Transport hazard class(es)

#### Land transport (ADR/RID)

**Class(es) :** 8  
**Classification code :** C1  
**Hazard identification number (Kemler No.) :** 80  
**Tunnel restriction code :** E  
**Special provisions :** LQ 1 | · E 2  
**Hazard label(s) :** 8 / N

#### Sea transport (IMDG)

**Class(es) :** 8  
**EmS-No. :** F-A / S-B  
**Special provisions :** LQ 1 | · E 2 · IMDG-Code segregation group 1 - Acids  
**Hazard label(s) :** 8 / N

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

**Class(es) :** 8  
**Special provisions :** E 2  
**Hazard label(s) :** 8

### 14.4 Packing group

II

### 14.5 Environmental hazards

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**Land transport (ADR/RID) :** Yes  
**Sea transport (IMDG) :** Yes (P)  
**Air transport (ICAO-TI / IATA-DGR) :** Yes

## 14.6 Special precautions for user

None

## SECTION 15: Regulatory information

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

#### EU legislation

**Authorisations and/or restrictions on use**

#### Restrictions on use

Use restriction according to REACH annex XVII, no. : 3

#### National regulations

#### Technische Anleitung Luft (TA-Luft)

Weight fraction (Number 5.2.2. III) : 7 - 8 %

#### Water hazard class (WGK)

Classification according to AwSV - Class : 3 (Strongly hazardous to water)

### 15.2 Chemical safety assessment

No information available.

## SECTION 16: Other information

### 16.1 Indication of changes

03. Hazardous ingredients

### 16.2 Abbreviations and acronyms

None

### 16.3 Key literature references and sources for data

None

### 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

See SECTION 2.1 (classification).

### 16.5 Relevant H- and EUH-phrases (Number and full text)

H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

### 16.6 Training advice

None

### 16.7 Additional information

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None

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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.

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