

## Copper(II) oxide, EssentQ®

**Identification**

CuO  
M = 79,55 g/mol  
CAS [1317-38-0]  
EC number: 215-269-1  
Taric code: 2825 50 00

**Synonyms**

Copper monoxide

**Applications**

analytical chemistry, catalyst (synthesis of organic products), in pyrotechnics, in porcelain industry, in galvanotechnia.

**Specifications**

assay (complexometric).....	min. 96 %	chlorides (Cl).....	max. 0,05 %
insoluble in HCl .....	max. 0,05 %	iron (Fe).....	max. 0,05 %
nitrogen compounds (as N).....	max. 0,005 %	total sulphur (as SO <sub>4</sub> ).....	max. 0,1 %
		non precipitable with H <sub>2</sub> S (as SO <sub>4</sub> ).....	max. 1 %

**Physical data**

- Appearance: powder, black
- Spec. Density: 6,45 g/cm<sup>3</sup>
- Bulk density: ~ 1600 kg/m<sup>3</sup>
- Solub. in water: (20 °C): insoluble
- Melting point: 1336 °C
- pH(50 g/l H<sub>2</sub>O, 20 °C) ~ 7
- Hygroscopic

**Safety - GHS**

Signal Word: Warning

**Hazard Statements:**

H410: Very toxic to aquatic life with long lasting effects.

**Precautionary Statements:**

P273: Avoid release to the environment.

P391: Collect spillage.

P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

**Transport/storage**

- ADR: 9 M7 III • UN 3077 • ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Copper(II) oxide)
- IMDG: 9 III • UN 3077 • ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Copper(II) oxide)
- IATA/ICAO: 9 III • UN 3077 • ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Copper(II) oxide)
- PAX: 956
- CAO: 956
- 10°C - 30°C