

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER	DRAGONWHITE – Copper alloy in drops
1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST	Alloy for goldsmith
1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET	Pandora Alloys srl Via Galvani, 14 20094 Corsico (MI) Italia ☎ +39 02 45 86 40 35 📠 +39 02 45 86 98 40 ✉ info@pandoralloys.com 🌐 www.pandoralloys.com
1.4 EMERGENCY TELEPHONE NUMBER	Centro antiveleni c/o Niguarda Hospital P.za Ospedale Maggiore, 3 Milano – Italy ☎ +39 02 66 10 10 29 (24h)

## 2. HAZARDS IDENTIFICATION

2.1 SUBSTANCE CLASSIFICATION CLASSIFICATION ACCORDING TO REGULATION 1272/2008/EC  CLASSIFICATION ACCORDING TO DIRECTIVE 1999/45/EC	The product contains nickel > 1% The product is classified as Carcinogen Category 1 B (probable human carcinogen mainly based on animal studies), Mutagenic Cat 2 (suspected of causing genetic defects), Toxic for reproduction Cat 2 (suspected of damaging fertility or the unborn child). Causes damage to target organs (lungs, liver, kidneys, blood) repeated exposure STOT RE-1. Very toxic to aquatic life with long lasting effects - Cat.1. This product is classified as a carcinogen Cat 2 (probable human carcinogen), Mutagenic Cat 3 (possible risk of impaired fertility and harm to the unborn child), Harmful by ingestion and inhalation of smoke and dust, and highly toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
2.2 LABEL ELEMENTS	The product should NOT be labeled in accordance with paragraph 1.3.4 all.I EC Regulation N.1272/2008. Nevertheless, we suggest to refer to the legislation EC 94/27 and subsequent modifications for effects on skin.
2.3 FURTHER HAZARDS PBT OR VPVB PROPERTIES  FURTHER HAZARDS	An evaluation of PBT and vPvB properties as per Attachment XIII has not been done. None to report.



6.4 reference to other sections  
See sections 8 e 13

## 7. HANDLING AND STORAGE

### 7.1 Precautions for a safe handling

Alloys can be handled without any particular precaution. During casting, melting, mechanical works, annealing and welding, provide for ventilation. Do not breathe dust, vapors and smokes.

### 7.2 Conditions for a safe storage, including possible incompatibilities.

Alloys can be stored without any particular precaution. For a better use, it is suitable a covered and dry place for storage.

### 7.3 Final specific uses

Copper alloy in drops to be molten with pure gold.

## 8. EXPOSITION CONTROL/PERSONAL PROTECTION

### 8.1 Control parameters

Limit values for Nickel	ACGIH TLV-TWA: 1.5 mg/m <sup>3</sup> TLV-TWA: 0.2mg/m <sup>3</sup> (Fumes); mg/m <sup>3</sup> (Dust. Mist.) TLV STEL: 2mg/m <sup>3</sup> (Dust. Mist)
Limit values for zinc oxide	TLV-TWA: 5 mg/m <sup>3</sup> (Fumes), 10 mg/m <sup>3</sup> (Dust)

### DNEL – DERIVED NO EFFECT LEVEL

Values refer to: Nickel

Workers:

Inhalation: Systemic effects long term exposure 0.05 mg/m<sup>3</sup>  
Inhalation: Systemic effects short term exposure 680 mg/m<sup>3</sup> MMAD <12 µm  
Inhalation: Local effects long term exposure 0.05 mg/m<sup>3</sup>  
Inhalation: Local effects short term exposure 4 mg/m<sup>3</sup> MMAD = 1.5 µm  
Dermal: Local effects long term exposure 0.035 mg/cm<sup>2</sup>

General population:

Inhalation: Systemic effects long term exposure 20 ng/m<sup>3</sup>  
Inhalation Systemic effects short term exposure 408 mg/m<sup>3</sup>  
Inhalation: Local effects long term exposure 20 ng/m<sup>3</sup>  
Inhalation: Local effects short term exposure 2.4 mg/m<sup>3</sup>  
Dermal: Local effects long term exposure 0.035 mg/cm<sup>2</sup>  
Oral: Systemic effects long term exposure 0.02 mg/kg bw/day  
Oral: Systemic effects short term exposure 12 µg/kg bw/day

### PNEC – PREDICTED NO EFFECT CONCENTRATION

Values refer to: Nickel

PNEC fresh water 3,55 µg Ni/L (bioavailable)  
PNEC marine water 8.6 µg Ni/L  
PNEC STP 0.33 mg/L  
PNEC soil 29.9 mg/kg soil dw

SOURCE: ECHA EUROPE

### 8.2 Controls of exposition

Respiratory protection

Workplace should be ventilated, in case of need use protective masks and aspiration while casting. If aspiration devices are not available, use a ventilation device suitable for casting process.

Hands protection

Use gloves suitable for casting.

Eyes protection

Use protective glasses while casting.

Skin protection

Use protective clothes and gloves



