

TUNGSTEN CARBIDE**1320**

November 1998

CAS No: 12070-12-1
RTECS No: YO7250000WC
Molecular mass: 195.9

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Not combustible.		In case of fire in the surroundings: use appropriate extinguishing media.
EXPLOSION			

EXPOSURE		PREVENT DISPERSION OF DUST!	
Inhalation	Cough.	Avoid inhalation of fine dust and mist. Local exhaust or breathing protection.	
Skin	Dry skin.	Protective gloves.	Rinse skin with plenty of water or shower.
Eyes		Safety spectacles or eye protection in combination with breathing protection if powder.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion		Do not eat, drink, or smoke during work.	

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting. Personal protection: P2 filter respirator for harmful particles.	

EMERGENCY RESPONSE	SAFE STORAGE

IMPORTANT DATA

Physical State; Appearance

GREY TO BLACK POWDER

Occupational exposure limits

TLV: (tungsten and insoluble compounds) 5 mg/m³ as TWA, 10 mg/m³ as STEL; (ACGIH 2004).

MAK: IIb (not established but data is available) (DFG 2004).

Routes of exposure

The substance can be absorbed into the body by inhalation.

Inhalation risk

Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed.

Effects of long-term or repeated exposure

Lungs may be affected by repeated or prolonged exposure to dust particles, resulting in fibrosis.

PHYSICAL PROPERTIES

Boiling point: 6000°C

Melting point: 2780°C

Density: 15.6 g/cm³

Solubility in water: none

ENVIRONMENTAL DATA

NOTES

Alternative CAS number 11130-73-7.

Health effects of exposure to the substance have not been investigated adequately.

This material is often used in conjunction with other substances such as cobalt compounds. Pneumoconiosis has occurred in exposed persons. The responsible agent is not yet clear.

Card has been partly updated in April 2005. See section Occupational Exposure Limits.

ADDITIONAL INFORMATION

LEGAL NOTICE

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible