

**CAS No: 7440-06-4**  
RTECS No: TP2160000

Platinum sponge  
Platinum black (powder)  
Pt  
Atomic mass: 195.1

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
<b>FIRE</b>			In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>			

EXPOSURE		PREVENT DISPERSION OF DUST!	
<b>Inhalation</b>	Cough. Sore throat.	Local exhaust or breathing protection.	Fresh air, rest.
<b>Skin</b>		Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
<b>Eyes</b>	Redness. Pain.	Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>Ingestion</b>	Abdominal pain. Nausea. Vomiting.	Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. (Extra personal protection: P1 filter respirator for inert particles.)	

EMERGENCY RESPONSE	STORAGE
	Well closed.

## IMPORTANT DATA

**Physical State; Appearance**

BLACK POWDER

**Chemical dangers**

Platinum is a catalytic substance and may cause reaction in contact with many organic and inorganic substances, causing fire and explosion hazard.

**Occupational exposure limits**

TLV: (as Pt metal) 1 mg/m<sup>3</sup>; (ACGIH 2003).

**Routes of exposure**

The substance can be absorbed into the body by inhalation.

**Inhalation risk**

Evaporation at 20°C is negligible; a nuisance-causing concentration of airborne particles can, however, be reached quickly especially if powdered.

**Effects of short-term exposure**

The substance is irritating to the eyes and the respiratory tract.

## PHYSICAL PROPERTIES

Boiling point: 3827°C  
Melting point: 1769°C

Density: 21.45 g/cm<sup>3</sup>  
Solubility in water: none

## ENVIRONMENTAL DATA

The substance is toxic to aquatic organisms.

## NOTES

The recommendations on this card do not apply to soluble platinum salts.

## ADDITIONAL INFORMATION

## LEGAL NOTICE

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible for the use which might be made of this information