

## GHS Classification

**ID824**

**Tungsten**

**CAS 7440-33-7**

Date Classified: Jul. 24, 2006 (Environmental Hazards: Mar. 31, 2006)

### Physical Hazards

Reference Manual: GHS Classification Manual (Feb. 10, 2006)

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Explosives	Not applicable	-	-	-	There are no chemical groups associated with explosive properties present in the molecules.
2 Flammable gases	Not applicable	-	-	-	Solid (GHS definition)
3 Flammable aerosols	Not applicable	-	-	-	Not aerosol products
4 Oxidizing gases	Not applicable	-	-	-	Solid (GHS definition)
5 Gases under pressure	Not applicable	-	-	-	Solid (GHS definition)
6 Flammable liquids	Not applicable	-	-	-	Solid (GHS definition)
7 Flammable solids	Not classified	-	-	-	It is no flammable in a bulk form.
8 Self-reactive substances and mixtures	Not applicable	-	-	-	There are no chemical groups associated with self-reactive properties present in the molecule.
9 Pyrophoric liquids	Not applicable	-	-	-	Solid (GHS definition)
10 Pyrophoric solids	Classification not possible	-	-	-	Although fine powder may ignite, a solid does not ignite. It is dependent on a form.
11 Self-heating substances and mixtures	Classification not possible	-	-	-	No data available on self-heating
12 Substances and mixtures, which in contact with water, emit flammable gases	Not applicable	-	-	-	Although it is metal, since it does not dissolve into water, there is no reactive.
13 Oxidizing liquids	Not applicable	-	-	-	Solid (GHS definition)
14 Oxidizing solids	Not applicable	-	-	-	Tungsten which is an element including no oxygen, chlorine and fluorine.
15 Organic peroxides	Not applicable	-	-	-	Inorganic substance
16 Corrosive to metals	Classification not possible	-	-	-	Test methods applicable to solid substances are not available.

### Health Hazards

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
1 Acute toxicity (oral)	Classification not possible	-	-	-	No data available
1 Acute toxicity (dermal)	Classification not possible	-	-	-	No data available
1 Acute toxicity (inhalation: gas)	Not applicable	-	-	-	Solid (GHS definition)
1 Acute toxicity (inhalation: vapour)	Classification not possible	-	-	-	No data available
1 Acute toxicity (inhalation: dust, mist)	Classification not possible	-	-	-	No data available
2 Skin corrosion / irritation	Classification not possible	-	-	-	No data available
3 Serious eye damage / eye irritation	Category 2B	-	Warning	Causes eye irritation	By the report that tungsten metal powder has irritation for the eyes (HSDB (2005)), it was set as Category 2B.
4 Respiratory/skin sensitization	Classification not possible	-	-	-	No data available
5 Germ cell mutagenicity	Classification not possible	-	-	-	No data available
6 Carcinogenicity	Classification not possible	-	-	-	Classification not possible due to lack of data and reports
7 Toxic to reproduction	Classification not possible	-	-	-	No data available
8 Specific target organs/systemic toxicity following single exposure	Classification not possible	-	-	-	Although there is an example of an accident, it cannot be classified that it unables to say only for the symptoms of tungsten.
9 Specific target organs/systemic toxicity following repeated exposure	Classification not possible	-	-	-	Since there was no case of specific internal organs but report on the cough by metal powder, respiratory distress, hypersensitivity asthma, and lung fibrosis reported among hard metal labours for occupational exposure (PATTY (5th, 2001)) (ATSDR (2005)), it was presupposed that it was unable to be classified.
10 Aspiration hazard	Classification not possible	-	-	-	No data available

**Environmental Hazards**

Hazard class	Classification	symbol	signal word	hazard statement	Rational for the classification
11 Hazardous to the aquatic environment (acute)	Classification not possible	-	-	-	Insufficient data available.
11 Hazardous to the aquatic environment (chronic)	Classification not possible	-	-	-	Classification not possible due to lack of data