

Tungsten powder

Revision Date: 8/14/2019

Date Issued: 8/14/2019

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY / UNDERTAKING

Product name Tungsten powder

Product code NM-0033 **CAS** 7440-33-7

REACH No.: A registration number is not available for this

substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is

envisaged for a later registration deadline.

Identified uses Laboratory chemicals, Manufacture of substances

Supplier IoLiTec

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2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULTATION (EC) No 1272/2008)

Flammable solids, Category 1 (H228)

Specific Target Organ Toxicity - Single exposure: Respiratory tract irritation,

Category 3 (H335)

NM-0033 Page: 1/10



Tungsten powder

Revision Date: 8/14/2019

Date Issued: 8/14/2019

Classification (67/548/EEC or 1999/45/EC)

Flammable solid

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008, GHS)

Pictogram

Signal word Warning

Hazard statement(s)

H228 Flammable solid.

H335 May cause respiratory irritation.

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot

surfaces . - No smoking.

P261 Avoid breathing dust/fume.

P370 + P378 In case of fire: Use sand or fire extinguisher

class D for extinction.

P422 Store contents under nitrogen or argon.

Caution - substance not yet tested completely.
Supplemental Hazard Statements none

Labelling (67/548/EEC or 1999/45/EC)

Hazard symbol(s)

R-phrase(s)

R11 Highly flammable.

R37 Irritating to respiratory system.

NM-0033 Page: 2/10



Tungsten powder

Revision Date: 8/14/2019

Date Issued: 8/14/2019

S-phrase(s)

S6 Keep under Argon.

S26 In case of contact with eyes, rinse immediately

with plenty of water and seek medical advice.

Wear suitable protective clothing.

Caution - substance not yet tested completely.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient name

Contents Health(Class) Risk(R/No.)

Tungsten

99.9% Substance not yet fully tested!

Formula Molecular Weight

V 183.84 g/mol

4 FIRST AID MEASURES

General Contaminated clothing should be removed

and washed before being reused.

Inhalation Move the exposed person to fresh air at once.

If respiratory problems, artificial

respiration/oxygen.

Ingestion Immediately rinse mouth and provide fresh air.

Get medical attention immediately.

Skin Wash the skin immediately with water.

Eyes Promptly wash eyes with plenty of water while

lifting the eye lids. Get medical attention

immediately. Continue to rinse for at least 15

minutes.

NM-0033 Page: 3/10



Tungsten powder

Revision Date: 8/14/2019

Date Issued: 8/14/2019

5 FIRE FIGHTING MEASURES

Extinguishing mediaUse: extinguishing powder.

Do not use water.

Special risks Flammable powder. Emission of toxic fumes

under fire conditions possible.

Protective measures in fire Wear self-contained breathing apparatus and

protective clothing.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions during spill Evacuate area. Shut off all heat or ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Wear self-contained breathing apparatus, rubber boots and gloves.

Spill cleanup methods Avoid contact with skin or inhalation of spillage, dust or vapor, Avoid dust formation. collect and reclaim or dispose in sealed containers in license waste.

7 HANDLING AND STORAGE

Usage precautions Avoid contact with eyes, skin and clothing.

Keep away from heat, sparks and open flame.

Do not use in confined spaces without adequate ventilation and/or respirator.

Storage precautions Store in a closed container at moderate

temperatures in dry, well ventilated area.

Store contents under inert gas (nitrogen or argon). Protect against electrostatic charges.

Special storage criteria Store away from oxidizing and acidic

materials.

NM-0033 Page: 4/10



Tungsten powder

Revision Date: 8/14/2019

Date Issued: 8/14/2019

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Exposure limits

W mg/m3

ACGIH TLW 1; 3-STEL (soluble compounds)

5; 10-STEL (insoluble compounds)

Belgium TWA 5; 10-STEL

Denmark TWA 5

NM-0033 Page: 5/10



Tungsten powder

Revision Date: 8/14/2019

Date Issued: 8/14/2019

Finland TWA 5

Korea TLW 5; 10-STEL

Netherlands MAC-TGG 5
Norway TWA 5
Poland TWA 5

Russia 2-STEL

Sweden NGV 5 Switzerland MAK-W 5

United Kingdom TWA 5; 10-STEL

GERMANY:TECHNICAL INSTRUCTIONS ON AIR QUALITY CONTROL (TA LUFT)

Overall Dust, including fine dust. The emissions of dust in the exhaust gas are not allowed to exceed the following values:

Mass flow: 0,20 kg/hr
Mass conc.: 20 mg/m³

The mass per unit volume of 0,15 g/m3 in exhaust gas is not allowed to be exceeded also on observance or lower deviation of a mass flow of 0,20 kg/h.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance Solid
Color Black

Odor/taste No characteristic odor.

Melting Point3410°CBoiling Point5927°C

Flammability Highly flammable

Density 19.3 g/cm³ (20°C)

Water Insoluble

NM-0033 Page: 6/10



Tungsten powder

Revision Date: 8/14/2019

Date Issued: 8/14/2019

10 STABILITY AND REACTIVITY

Stability No particular stability concerns if handled

according to specifications.

Conditions to avoid Oxidizing agents

Hazardous Decomposition Highly flammable in air

Products Metal oxide fume.

11 TOXICOLOGICAL INFORMATION

Acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

NM-0033 Page: 7/10



Tungsten powder

Revision Date: 8/14/2019

Date Issued: 8/14/2019

Potential health effects

Ingestion Harmful if swallowed.

Inhalation Harmful to mucous membranes.

Skin Irritating
Eyes Irritating

Additional Information

RTECS: Not available

Full Data on the toxicity of this product are not available. Hazardous properties

cannot be excluded.

12 ECOLOGICAL INFORMATION

Environmental hazards Avoid washing into water courses. Avoid

contaminating public drains or water supply.

13 DISPOSAL CONSIDERATIONS

Disposal methodContact specialist disposal companies.

Dispose of in accordance with Local Authority requirements. Recover and reclaim or recycle,

if practical.

14 TRANSPORT INFORMATION

UN number: UN 3089

UN proper shipping name

ADR/RID: METAL POWDER, FLAMMABLE, N.O.S.

(TUNGSTEN)

IMDG: METAL POWDER, FLAMMABLE, N.O.S.

(TUNGSTEN)

IATA: Metal powder, flammable, n.o.s. (tungsten)

NM-0033 Page: 8/10



Tungsten powder

Revision Date: 8/14/2019

Date Issued: 8/14/2019

Transport hazard class(es)

ADR/RID: 4.1 IMDG: 4.1 IATA: 4.1

Packaging group

ADR/RID: II IMDG: II IATA: II

Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

Special precautions for user

no data available.

15 REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

Chemical Safety Assessment

no data available

Country specific information:

Germany

Classification according to German Regulation WGK2 (self classification); hazardous to waters

NM-0033 Page: 9/10



Tungsten powder

Revision Date: 8/14/2019

Date Issued: 8/14/2019

16 OTHER INFORMATION

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NM-0033 Page: 10/10