

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-0034

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 loLiTec

Ionic Liquids Technologies GmbH

Salzstrasse 184 D-74076 Heilbronn

Germany

 Telephone
 +49 (0)7131 - 898390

 Fax
 +49 (0)7131 - 89839109

 Emergency telephone
 +49 (0)176 - 84850874

Email msds@iolitec.de

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Flammable solid

Classification (REGULTATION (EC) No 1272/2008)

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Flammable solids, Category 1 (H228)

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

Category 3 (H335)

2.2 Label elements

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

Hazard description:

Label for supply

F Highly flammable

Xi Irritan

Information pertaining to particular dangers for man and environment

Risk phrases

R11: Highly flammable.

R37: respiratory system.

Safety phrases

S6: Keep under argon

S26: In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S36: Wear suitable protective clothing.

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

Hazard statements





Dange

H-phrases

H228: Flammable solid.

H335: May cause respiratory irritation.

Precautionary statements

P-phrases

P210: Keep away from heat/sparks/open flames/hot surfaces . - No smoking.

P261: Avoid breathing dust/fume.

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P370 + P378: In case of fire: Use sand or fire extinguisher class D for extinction.

P422: Store contents under nitrogen or argon.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient name Tungsten CAS No. 7440-33-7

Empirical Formula W

Molecular weight 183.84 amu

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.

5 FIRE FIGHTING MEASURES

Extinguishing mediaUse: extinguishing powder.

Do not use water.

Special risks Flammable powder. Emission of toxic fumes

under fire conditions possible.

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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 in a cool, dry, well

ventilated area. Protect against electrostatic

charges.

Special storage criteria Store away from oxidizing and acidic

materials.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Protective equipment Safety goggles. Chemical resident gloves.

Protective clothing. Protective mask when

high concentrations are present.

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Process control measures Provide eyewash station and safety shower.

Use engineering controls to reduce air

contamination to permissible exposure levels.

Ventilation Provide adequate general and local exhaust

ventilation.

RespiratorsUse high efficiency particulate respirator with

appropriate filter when high concentrations are

presents

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 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

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance Solid
Color Black

Odor/taste No characteristic odor.

Melting Point3410°CBoiling Point5927°C

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Flammability Highly flammable **Density** 19.3 g/cm³ (20°C)

Water Insoluble

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

Ingestion Harmful if swallowed.

Inhalation Harmful to mucous membranes.

SkinIrritating effectEyesIrritating effect

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

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requirements. Recover and reclaim or recycle,

if practical.

14 TRANSPORT INFORMATION

Land transport RID/ADR UN#: 3089

Class: 4.1

Packing group: II

Danger code (Kemler): 40

Item: 13c

Proper Shipping Name: Metal powders, flammable, n.o.s. (tungsten)

Maritime transport IMDG UN#: 3089

Class: 4.1

Packing group: II

Proper Shipping Name: Metal powders, flammable, n.o.s. (tungsten)

Air transport IATA UN#: 3089

Class: 4.1

Packing group: II

Proper Shipping Name: Metal powders, flammable, n.o.s. (tungsten)

15 REGULATORY INFORMATION

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

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

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

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16 OTHER INFORMATION

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