

Palladium powder

Revision Date: 1/10/2018

Date Issued: 8/14/2019

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

Product name Palladium powder

 Product code
 NM-0041

 CAS
 7440-05-3

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

Ionic Liquids Technologies GmbH

Salzstrasse 184

D - 74076 Heilbronn

Germany

 Telephone
 +49 (0)7131-89839-0

 Fax
 +49 (0)7131-89839-109

 Emergency telephone
 +49 (0)176-84850874

Email msds@iolitec.de

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULTATION (EC) No 1272/2008)

Flammable solids, Category 2, H228

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

Category 3, H335

NM-0041 Page: 1/10



Palladium powder

Revision Date: 1/10/2018

Date Issued: 8/14/2019

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

Flammable metal powder

2.2 Label elements

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

Pictogram





Signal word Danger

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/gas/mist/vapours/

spray.

P280 Wear protective gloves/protective clothing/eye

protection/face protection.

P370+378 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)





NM-0041 Page: 2/10



Palladium powder

Revision Date: 1/10/2018

Date Issued: 8/14/2019

R-phrase(s)

R11 Highly flammable.

R36/37/38 Irritating to eyes, respiratory system and skin.

S-phrase(s)

S6 Keep under inert gas

S16 Keep away from sources of ignition - No

smoking

S22 Do not breathe dust

S36/37/39: Wear suitable protective clothing, gloves and

eye/face protection.

Caution - substance not yet tested completely.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient nameContentsHealth(Class)Risk(R/No.)Palladium99.9%Substance not yet fully tested!

Formula Molecular Weight

Pd 106.42 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. Do

not induce vomiting. Get medical attention

immediately.

NM-0041 Page: 3/10



Palladium powder

Revision Date: 1/10/2018

Date Issued: 8/14/2019

Skin Wash the skin immediately with soap and water.

Get medical attention immediately.

Eyes Promptly wash eyes with plenty of water while

lifting the eye lids. Continue to rinse for at least 15

minutes. Get medical attention immediately.

Continue to rinse.

5 FIRE FIGHTING MEASURES

Extinguishing mediaUse: Dry chemical powder. Do not use water.

Special risks Flammable powder. Emission of toxic fumes

under fire conditions possible.

Protective measures in fireWear self-contained breathing apparatus and

protective clothing.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions during spill Wear protective clothing and avoid inhalation

as well as skin or eye contact. Keep away

from ignition sources.

Precautions to protect environment Do not wash into water courses. Do not allow

this material to be released to the

environment without proper governmental

permits.

Spill cleanup methodsAvoid contact with skin or inhalation of

spillage, dust or vapor, Avoid dust formation. Collect and reclaim or dispose in sealed

containers in license waste. Extinguish all ignition sources. Avoid sparks, flames, heat

and smoking. Ventilate.

NM-0041 Page: 4/10



Palladium powder

Revision Date: 1/10/2018

Date Issued: 8/14/2019

7 HANDLING AND STORAGE

Usage precautions Keep away from heat, sparks and open flame.

Do not use in confined spaces without

adequate ventilation.

Storage precautions Store in a tightly closed container in a cool,

dry, well ventilated area.

Storage criteria Chemical storage.

Do not store together with oxidizing salts,

acids. Store away from air/water.

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.

NM-0041 Page: 5/10



Palladium powder

Revision Date: 1/10/2018

Date Issued: 8/14/2019

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).

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance Powder Color Black

Odor/taste No characteristic odor.

10 STABILITY AND REACTIVITY

Stability No particular stability concerns if handled

according to specifications.

Conditions to avoid Reacts violently with: oxidizing agents, acids,

bases, halogens, interhalogens, alkali metals

and water.

Hazardous Decomposition

Products Metal oxide fume.

11 TOXICOLOGICAL INFORMATION

Acute toxicity

no data available

Skin corrosion/irritation

no data available

NM-0041 Page: 6/10



Palladium powder

Revision Date: 1/10/2018

Date Issued: 8/14/2019

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

Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Potential health effects

IngestionMay be harmfull if swallowed.InhalationMay cause respiratory irritation.

SkinMay cause irritation.EyesMay cause irritation.

Additional Information

RTECS: Not available

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

NM-0041 Page: 7/10



Palladium powder

Revision Date: 1/10/2018

Date Issued: 8/14/2019

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.,

Palladium

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

Palladium

IATA: metall powder, flammable, n.o.s., palladium

Transport hazard class(es)

ADR/RID: 4.1 IMDG: 4.1 IATA: 4.1

Packaging group

ADR/RID: III IMDG: III IATA: III

NM-0041 Page: 8/10



Palladium powder

Revision Date: 1/10/2018

Date Issued: 8/14/2019

Environmental hazards

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

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

German Water Hazard Class

Substance No: 1443 non-hazardous to waters

NM-0041 Page: 9/10



Palladium powder

Revision Date: 1/10/2018

Date Issued: 8/14/2019

16 OTHER INFORMATION

DISCLAIMER

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPOSED TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. IOLITEC SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. THIS INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR ANY PROCESS. IT IS THE USERE'S RESPONISIBILTY TO SATISFY HIMSELF AS TO THE SUITABILITY OF SUCH INFORMATION FOR HIS OWN PARTICULAR USE.

IN NO WAY SHALL IOLITEC BE LIABLE FOR ANY CLAIMS, LOSSES OR DAMAGES OF ANY THIRD PARTY OR FOR THE LOST PROFITS OR ANY SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES, HOWSOEVER ARISING, EVEN IF THE COMPANY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

NM-0041 Page: 10/10