

Material Safety Data Sheet

Platinum powder

Revision Date: 8/14/2019

Date Issued: 8/14/2019

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

Product name	Platinum powder
Product code	NM-0042
CAS	7440-06-4
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 (REGULATION (EC) No 1272/2008)

Flammable solids, Category 1, H228

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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.

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 protectic gloves/ protective clothing/ eye protection/ face protection.

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-pharse(s)

R11

Highly flammable

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S-phrase(s)

- S6 Keep under Argon.
 S9 Keep container in a well-ventilated place.
 S16 Keep away from sources of ignition - No smoking.
 S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

Caution - substance not yet tested completely.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient name	Contents	Health(Class)	Risk(R/No.)
Platinum	99.9%		Substance not yet fully tested!
Formula	Molecular Weight		
Pt	195.08 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.
- 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.

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5 FIRE FIGHTING MEASURES

Extinguishing media	Use: Dry chemical powder, carbon dioxide, appropriate foam. DO NOT USE WATER.
Special risks	Material in powder form: risk of dust explosion. 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	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 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. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.

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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.

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Respiratory protection

For nuisance exposures use type P95 (US) or type P2 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P3 (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

TRGS 900 - GERMAN OCCUPATIONAL EXPOSURE LIMIT VALUES

1 mg/m³; with reference to the inhalable fraction

Source: EU

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Powder
Color	Black
Odor/taste	No characteristic odor.
Flammability	Flammable

10 STABILITY AND REACTIVITY

Stability	No particular stability concerns.
Conditions to avoid	Contact with water releases flammable gases

11 TOXICOLOGICAL INFORMATION

Acute toxicity

no data available

Skin corrosion/irritation

no data available

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Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

Carcinogenicity-rat-Implant

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria.

Tumorigenic: Tumors at site or application.

Carcinogenicity-mouse-Implant

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Tumorigenic:Tumors at site or application.

IARC:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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

Potential health effects

Inhalation

May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion

May be harmful if swallowed.

Skin

May be harmful if absorbed through skin.

May cause skin irritation.

Eyes

May cause eye irritation.

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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

Do not allow material to be released to the environment without proper governmental permits.

13 DISPOSAL CONSIDERATIONS

Disposal method

Contact 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.
(PLATINUM)

IMDG: METAL POWDER, FLAMMABLE, N.O.S.
(PLATINUM)

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

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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

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

Substance No: 1443 non-hazardous to waters

Classification according to the Administrative Regulation of Substances Hazardous to Water (VwVwS)

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16 OTHER INFORMATION

DISCLAIMER

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