

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1. Product identifier**

Product Description: Platinum, nominally 10% on carbon black  
Cat No. : 47357

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Recommended Use Laboratory chemicals.  
Uses advised against No Information available

**1.3. Details of the supplier of the safety data sheet****Company**

Thermo Fisher (Kandel) GmbH  
Erlenbachweg 2, 76870 Kandel, Germany  
Tel: +49 (0) 721 84007 280  
Fax: +49 (0) 721 84007 300

**Swiss distributor** - Fisher Scientific AG  
Neuhofstrasse 11, CH 4153 Reinach  
Tel: +41 (0) 56 618 41 11  
<https://www.fishersci.ch/ch/en/customer-help-support/forms/email-us.html>

E-mail address [begel.sdsdesk@thermofisher.com](mailto:begel.sdsdesk@thermofisher.com)

**1.4. Emergency telephone number**

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11  
Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99  
**CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

customers in Switzerland:  
Tox Info Suisse Emergency Number: **145 (24hr)**  
Tox Info Suisse: +41-44 251 51 51 (Emergency number from abroad)  
Chemtrec (24h) Toll-Free: 0800 564 402  
Chemtrec Local: +41-43 508 20 11 (Zurich)

**SECTION 2: HAZARDS IDENTIFICATION****2.1. Classification of the substance or mixture**

CLP Classification - Regulation (EC) No 1272/2008

Physical hazards

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Based on available data, the classification criteria are not met

## Health hazards

Based on available data, the classification criteria are not met

## Environmental hazards

Based on available data, the classification criteria are not met

Full text of Hazard Statements: see section 16

## 2.2. Label elements

None required

## 2.3. Other hazards

This product does not contain any known or suspected endocrine disruptors

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

| Component    | CAS No    | EC No             | Weight % | CLP Classification - Regulation (EC) No 1272/2008 |
|--------------|-----------|-------------------|----------|---------------------------------------------------|
| Carbon black | 1333-86-4 | 215-609-9         | 90.0     | -                                                 |
| Platinum     | 7440-06-4 | EEC No. 231-116-1 | 10.0     | -                                                 |

Full text of Hazard Statements: see section 16

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

|                                           |                                                                                                                         |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Eye Contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.         |
| <b>Skin Contact</b>                       | Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur. |
| <b>Ingestion</b>                          | Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.                   |
| <b>Inhalation</b>                         | Remove to fresh air. Get medical attention immediately if symptoms occur.                                               |
| <b>Self-Protection of the First Aider</b> | No special precautions required.                                                                                        |

### 4.2. Most important symptoms and effects, both acute and delayed

None reasonably foreseeable.

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## 4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### **Suitable Extinguishing Media**

Carbon dioxide (CO<sub>2</sub>). Powder. Water spray. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

#### **Extinguishing media which must not be used for safety reasons**

No information available.

### 5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors.

#### **Hazardous Combustion Products**

Platinum oxide.

### 5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

### 6.2. Environmental precautions

Should not be released into the environment. See Section 12 for additional Ecological Information. Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system.

### 6.3. Methods and material for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

### 6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

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## 7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Technical Rules for Hazardous Substances (TRGS) 510  
Storage Class (LGK) (Germany)

Storage Class/LGK 13

Switzerland - Storage of hazardous substances

Storage class - SC 11/13

<https://www.kvu.ch/de/themen/stoffe-und-produkte>

<https://www.kvu.ch/fr/themes/substances-et-produits>

<https://www.kvu.ch/it/temi/sostanze-e-prodotti>

## 7.3. Specific end use(s)

Use in laboratories

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Exposure limits

List source(s): **UK** - EH40/2005 Work Exposure Limits, Forth edition. Published 2020. **IRE** - 2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001. Published by the Health and Safety Authority.

**CH** - The Government of Switzerland has set a directive on limit values for working materials (Grenzwerte am Arbeitsplatz) which is based on the Swiss Federal Regulation "Verordnung über die Verhütung von Unfällen und Berufskrankheiten". This directive is administered, periodically revised and enforced by SUVA (Swiss National Accident Insurance Fund).

| Component    | European Union | The United Kingdom                                                  | France                                       | Belgium                         | Spain                                         |
|--------------|----------------|---------------------------------------------------------------------|----------------------------------------------|---------------------------------|-----------------------------------------------|
| Carbon black |                | STEL: 7 mg/m <sup>3</sup> 15 min<br>TWA: 3.5 mg/m <sup>3</sup> 8 hr | TWA / VME: 3.5 mg/m <sup>3</sup> (8 heures). | TWA: 3 mg/m <sup>3</sup> 8 uren | TWA / VLA-ED: 3.5 mg/m <sup>3</sup> (8 horas) |
| Platinum     |                | STEL: 15 mg/m <sup>3</sup> 15 min<br>TWA: 5 mg/m <sup>3</sup> 8 hr  | TWA / VME: 1 mg/m <sup>3</sup> (8 heures).   | TWA: 1 mg/m <sup>3</sup> 8 uren | TWA / VLA-ED: 1 mg/m <sup>3</sup> (8 horas)   |

| Component    | Italy | Germany                                     | Portugal                         | The Netherlands                 | Finland                                                                           |
|--------------|-------|---------------------------------------------|----------------------------------|---------------------------------|-----------------------------------------------------------------------------------|
| Carbon black |       |                                             | TWA: 3 mg/m <sup>3</sup> 8 horas |                                 | TWA: 3.5 mg/m <sup>3</sup> 8 tunteina<br>STEL: 7 mg/m <sup>3</sup> 15 minuutteina |
| Platinum     |       | TWA: 1 mg/m <sup>3</sup> (8 Stunden). AGW - | TWA: 1 mg/m <sup>3</sup> 8 horas | TWA: 1 mg/m <sup>3</sup> 8 uren | TWA: 1 mg/m <sup>3</sup> 8 tunteina                                               |

| Component    | Austria                                | Denmark                                                                     | Switzerland                        | Poland                               | Norway                                                                                        |
|--------------|----------------------------------------|-----------------------------------------------------------------------------|------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------|
| Carbon black |                                        | TWA: 3.5 mg/m <sup>3</sup> 8 timer<br>STEL: 7 mg/m <sup>3</sup> 15 minutter |                                    | TWA: 4 mg/m <sup>3</sup> 8 godzinach | TWA: 3.5 mg/m <sup>3</sup> 8 timer<br>STEL: 7 mg/m <sup>3</sup> 15 minutter. value calculated |
| Platinum     | MAK-TMW: 1 mg/m <sup>3</sup> 8 Stunden | TWA: 1 mg/m <sup>3</sup> 8 timer<br>STEL: 2 mg/m <sup>3</sup> 15 minutter   | TWA: 1 mg/m <sup>3</sup> 8 Stunden | TWA: 1 mg/m <sup>3</sup> 8 godzinach | : 8 timer<br>: 15 minutter. no value adopted                                                  |

| Component    | Bulgaria                   | Croatia                                                                                 | Ireland                                                                                | Cyprus                   | Czech Republic                                                         |
|--------------|----------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------|
| Carbon black |                            | TWA-GVI: 3.5 mg/m <sup>3</sup> 8 satima.<br>STEL-KGVI: 7 mg/m <sup>3</sup> 15 minutama. | TWA: 3 mg/m <sup>3</sup> 8 hr. inhalable fraction<br>STEL: 15 mg/m <sup>3</sup> 15 min |                          | TWA: 2.0 mg/m <sup>3</sup> 8 hodinách. dust                            |
| Platinum     | TWA: 1.0 mg/m <sup>3</sup> | TWA-GVI: 1 mg/m <sup>3</sup> 8 satima.                                                  | TWA: 1 mg/m <sup>3</sup> 8 hr. Pt<br>STEL: 3 mg/m <sup>3</sup> 15 min                  | TWA: 1 mg/m <sup>3</sup> | TWA: 0.5 mg/m <sup>3</sup> 8 hodinách.<br>Ceiling: 1 mg/m <sup>3</sup> |

| Component    | Estonia                                   | Gibraltar                                                                                      | Greece                                                  | Hungary                               | Iceland                                                                                        |
|--------------|-------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------|------------------------------------------------------------------------------------------------|
| Carbon black | TWA: 3 mg/m <sup>3</sup> 8 tundides. dust |                                                                                                | STEL: 7 mg/m <sup>3</sup><br>TWA: 3.5 mg/m <sup>3</sup> | TWA: 3 mg/m <sup>3</sup> 8 órában. AK | TWA: 3.5 mg/m <sup>3</sup> 8 klukkustundum.<br>Ceiling: 7 mg/m <sup>3</sup>                    |
| Platinum     | TWA: 1 mg/m <sup>3</sup> 8 tundides.      | TWA: 1 mg/m <sup>3</sup> 8 hr metallic;existing scientific data on health effects appear to be | TWA: 5 mg/m <sup>3</sup>                                | TWA: 1 mg/m <sup>3</sup> 8 órában. AK | TWA: 1 mg/m <sup>3</sup> 8 klukkustundum. dust and powder<br>Ceiling: 2 mg/m <sup>3</sup> dust |

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|  |  |                      |  |  |            |
|--|--|----------------------|--|--|------------|
|  |  | particularly limited |  |  | and powder |
|--|--|----------------------|--|--|------------|

| Component | Latvia                   | Lithuania                     | Luxembourg                         | Malta                    | Romania                        |
|-----------|--------------------------|-------------------------------|------------------------------------|--------------------------|--------------------------------|
| Platinum  | TWA: 1 mg/m <sup>3</sup> | TWA: 1 mg/m <sup>3</sup> IPRD | TWA: 1 mg/m <sup>3</sup> 8 Stunden | TWA: 1 mg/m <sup>3</sup> | TWA: 1 mg/m <sup>3</sup> 8 ore |

| Component    | Russia | Slovak Republic                                                                                                                                                                                                                      | Slovenia                                              | Sweden                                    | Turkey                          |
|--------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------|---------------------------------|
| Carbon black |        | TWA: 2 mg/m <sup>3</sup><br>respirable fraction, 5%<br>or less fibrogenic<br>component<br>TWA: 10 mg/m <sup>3</sup><br>respirable fraction,<br>greater than 5%<br>fibrogenic component<br>TWA: 10 mg/m <sup>3</sup> total<br>aerosol |                                                       | TLV: 3 mg/m <sup>3</sup> 8 timmar.<br>NGV |                                 |
| Platinum     |        | TWA: 1 mg/m <sup>3</sup>                                                                                                                                                                                                             | TWA: 1 mg/m <sup>3</sup> 8 urah<br>inhalable fraction | TLV: 1 mg/m <sup>3</sup> 8 timmar.<br>NGV | TWA: 1 mg/m <sup>3</sup> 8 saat |

## Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

## Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust

MDHS46/2 Platinum metal and soluble platinum compounds in air Laboratory method using electrothermal atomic absorption spectrometry or inductively coupled plasma-mass spectrometry

## Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL)

See table for values

| Component                          | Acute effects local<br>(Inhalation) | Acute effects<br>systemic (Inhalation) | Chronic effects local<br>(Inhalation) | Chronic effects<br>systemic (Inhalation) |
|------------------------------------|-------------------------------------|----------------------------------------|---------------------------------------|------------------------------------------|
| Carbon black<br>1333-86-4 ( 90.0 ) |                                     |                                        | DNEL = 0.5mg/m <sup>3</sup>           | DNEL = 1mg/m <sup>3</sup>                |

## Predicted No Effect Concentration (PNEC)

See values below.

## 8.2. Exposure controls

### Engineering Measures

None under normal use conditions.

### Personal protective equipment

#### Eye Protection

Wear safety glasses with side shields (or goggles) (European standard - EN 166)

#### Hand Protection

Protective gloves

| Glove material | Breakthrough time | Glove thickness | EU standard | Glove comments        |
|----------------|-------------------|-----------------|-------------|-----------------------|
| Natural rubber | See manufacturers | -               |             | (minimum requirement) |

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|                                   |                 |        |
|-----------------------------------|-----------------|--------|
| Nitrile rubber<br>Neoprene<br>PVC | recommendations | EN 374 |
|-----------------------------------|-----------------|--------|

**Skin and body protection** Long sleeved clothing.

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

**Respiratory Protection** No protective equipment is needed under normal use conditions.

**Large scale/emergency use** Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced  
**Recommended Filter type:** Particle filter

**Small scale/Laboratory use** Maintain adequate ventilation

**Environmental exposure controls** No information available.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

|                                         |                          |                                   |
|-----------------------------------------|--------------------------|-----------------------------------|
| Physical State                          | Solid                    |                                   |
| Appearance                              |                          |                                   |
| Odor                                    | Odorless                 |                                   |
| Odor Threshold                          | No data available        |                                   |
| Melting Point/Range                     | No data available        |                                   |
| Softening Point                         | No data available        |                                   |
| Boiling Point/Range                     | No information available |                                   |
| Flammability (liquid)                   | Not applicable           | Solid                             |
| Flammability (solid,gas)                | No information available |                                   |
| Explosion Limits                        | No data available        |                                   |
| Flash Point                             | No information available | Method - No information available |
| Autoignition Temperature                | No data available        |                                   |
| Decomposition Temperature               | No data available        |                                   |
| pH                                      | No information available |                                   |
| Viscosity                               | Not applicable           | Solid                             |
| Water Solubility                        | Insoluble in water       |                                   |
| Solubility in other solvents            | No information available |                                   |
| Partition Coefficient (n-octanol/water) |                          |                                   |
| Vapor Pressure                          | No data available        |                                   |
| Density / Specific Gravity              | No data available        |                                   |
| Bulk Density                            | No data available        |                                   |
| Vapor Density                           | Not applicable           | Solid                             |
| Particle characteristics                | No data available        |                                   |

### 9.2. Other information

**Evaporation Rate** Not applicable - Solid

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

None known, based on information available

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## 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

### Hazardous Polymerization Hazardous Reactions

No information available.  
None under normal processing.

## 10.4. Conditions to avoid

Incompatible products. Excess heat.

## 10.5. Incompatible materials

Acids. Oxidizing agent.

## 10.6. Hazardous decomposition products

Platinum oxide.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Product Information

#### (a) acute toxicity;

Oral

Based on available data, the classification criteria are not met

Dermal

Based on available data, the classification criteria are not met

Inhalation

Based on available data, the classification criteria are not met

#### Toxicology data for the components

| Component    | LD50 Oral                  | LD50 Dermal              | LC50 Inhalation                          |
|--------------|----------------------------|--------------------------|------------------------------------------|
| Carbon black | LD50 > 15400 mg/kg ( Rat ) | LD50 > 3 g/kg ( Rabbit ) | LC50 > 4.6 mg/m <sup>3</sup> ( Rat ) 4 h |

#### (b) skin corrosion/irritation;

No data available

#### (c) serious eye damage/irritation;

No data available

#### (d) respiratory or skin sensitization;

Respiratory

No data available

Skin

No data available

#### (e) germ cell mutagenicity;

No data available

#### (f) carcinogenicity;

No data available

The table below indicates whether each agency has listed any ingredient as a carcinogen

| Component    | EU | UK | Germany | IARC     |
|--------------|----|----|---------|----------|
| Carbon black |    |    | Cat. 3B | Group 2B |

#### (g) reproductive toxicity;

No data available

#### (h) STOT-single exposure;

No data available

#### (i) STOT-repeated exposure;

No data available

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**Target Organs** No information available.

**(j) aspiration hazard;** Not applicable  
Solid

**Symptoms / effects, both acute and delayed** No information available.

## 11.2. Information on other hazards

**Endocrine Disrupting Properties** Assess endocrine disrupting properties for human health. This product does not contain any known or suspected endocrine disruptors.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Ecotoxicity effects** May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

| Component    | Freshwater Fish | Water Flea                                | Freshwater Algae |
|--------------|-----------------|-------------------------------------------|------------------|
| Carbon black |                 | EC50: > 5600 mg/L, 24h<br>(Daphnia magna) |                  |

**12.2. Persistence and degradability** Product contains heavy metals. Discharge into the environment must be avoided. Special pre-treatment is necessary  
**Persistence** Insoluble in water, May persist.  
**Degradability** Not relevant for inorganic substances.  
**Degradation in sewage treatment plant** Contains substances known to be hazardous to the environment or not degradable in waste water treatment plants.

**12.3. Bioaccumulative potential** May have some potential to bioaccumulate; Product has a high potential to bioconcentrate

**12.4. Mobility in soil** Spillage unlikely to penetrate soil Is not likely mobile in the environment due its low water solubility.

**12.5. Results of PBT and vPvB assessment** No data available for assessment.

### 12.6. Endocrine disrupting properties

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors

**12.7. Other adverse effects**  
**Persistent Organic Pollutant**  
**Ozone Depletion Potential**

This product does not contain any known or suspected substance  
This product does not contain any known or suspected substance

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste from Residues/Unused Products** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Consult local, regional, and national hazardous waste regulations to

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ensure complete and accurate classification.

## Contaminated Packaging

Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use empty containers.

## European Waste Catalogue (EWC)

According to the European Waste Catalog, Waste Codes are not product specific, but application specific.

## Other Information

Waste codes should be assigned by the user based on the application for which the product was used.

## Switzerland - Waste Ordinance

Disposal should be in accordance with applicable regional, national and local laws and regulations. Ordinance on the Avoidance and the Disposal of Waste (Waste Ordinance, ADWO) SR 814.600  
<https://www.fedlex.admin.ch/eli/cc/2015/891/en>

## SECTION 14: TRANSPORT INFORMATION

### IMDG/IMO

#### 14.1. UN number

UN1325

#### 14.2. UN proper shipping name

Flammable solid, organic, n.o.s.

#### Technical Shipping Name

(Platinum powder, CARBON, ACTIVATED)

#### 14.3. Transport hazard class(es)

4.1

#### 14.4. Packing group

II

### ADR

#### 14.1. UN number

UN1325

#### 14.2. UN proper shipping name

Flammable solid, organic, n.o.s.

#### Technical Shipping Name

(Platinum powder, CARBON, ACTIVATED)

#### 14.3. Transport hazard class(es)

4.1

#### 14.4. Packing group

II

### IATA

#### 14.1. UN number

UN1325

#### 14.2. UN proper shipping name

Flammable solid, organic, n.o.s.

#### Technical Shipping Name

(Platinum powder, CARBON, ACTIVATED)

#### 14.3. Transport hazard class(es)

4.1

#### 14.4. Packing group

II

#### 14.5. Environmental hazards

No hazards identified

#### 14.6. Special precautions for user

No special precautions required.

#### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable, packaged goods

## SECTION 15: REGULATORY INFORMATION

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

#### International Inventories

Europe (EINECS/ELINCS/NLP), China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia (AICS), New Zealand (NZIoC), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

| Component    | CAS No    | EINECS    | ELINCS    | NLP | IECSC | TCSI | KECL     | ENCS | ISHL |
|--------------|-----------|-----------|-----------|-----|-------|------|----------|------|------|
| Carbon black | 1333-86-4 | 215-609-9 | 435-640-3 | -   | X     | X    | X        | X    | X    |
| Platinum     | 7440-06-4 | 231-116-1 | -         | -   | X     | X    | KE-28808 | X    | -    |

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| Component    | CAS No    | TSCA | TSCA Inventory notification - Active-Inactive | DSL | NDSL | AICS | NZIoC | PICCS |
|--------------|-----------|------|-----------------------------------------------|-----|------|------|-------|-------|
| Carbon black | 1333-86-4 | X    | ACTIVE                                        | X   | -    | X    | X     | X     |
| Platinum     | 7440-06-4 | X    | ACTIVE                                        | X   | -    | X    | X     | X     |

Legend: X - Listed '-' - Not Listed

KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

## Authorisation/Restrictions according to EU REACH

| Component    | CAS No    | REACH (1907/2006) - Annex XIV - Substances Subject to Authorization | REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|--------------|-----------|---------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Carbon black | 1333-86-4 | -                                                                   | Use restricted. See item 75. (see link for restriction details)               | -                                                                                                     |
| Platinum     | 7440-06-4 | -                                                                   | -                                                                             | -                                                                                                     |

## REACH links

<https://echa.europa.eu/substances-restricted-under-reach>

## Seveso III Directive (2012/18/EC)

| Component    | CAS No    | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements |
|--------------|-----------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Carbon black | 1333-86-4 | Not applicable                                                                            | Not applicable                                                                           |
| Platinum     | 7440-06-4 | Not applicable                                                                            | Not applicable                                                                           |

## Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

## Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?

Not applicable

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

## National Regulations

**UK** - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

## WGK Classification

Water endangering class = non-hazardous to waters (self classification)

| Component    | Germany - Water Classification (AwSV) | Germany - TA-Luft Class |
|--------------|---------------------------------------|-------------------------|
| Carbon black | nwg                                   |                         |

| Component    | France - INRS (Tables of occupational diseases)               |
|--------------|---------------------------------------------------------------|
| Carbon black | Tableaux des maladies professionnelles (TMP) - RG 16,RG 16bis |

## Swiss Regulations

Article 4 para. 4 of the Ordinance on the protection of young people in the workplace (SR 822.115) and Article 1 lit. f of the EAER regulation on hazardous work and young people (SR 822.115.2).

Take note on Article 13 Maternity Ordinance (SR 822.111.52) with regards expectant and nursing mothers.

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## 15.2. Chemical safety assessment

Chemical Safety Assessment/Reports (CSA/CSR) are not required for mixtures

## SECTION 16: OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3

#### Legend

**CAS** - Chemical Abstracts Service

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**IECSC** - Chinese Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List

**ENCS** - Japanese Existing and New Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**NZIoC** - New Zealand Inventory of Chemicals

**WEL** - Workplace Exposure Limit

**ACGIH** - American Conference of Governmental Industrial Hygienists

**DNEL** - Derived No Effect Level

**RPE** - Respiratory Protective Equipment

**LC50** - Lethal Concentration 50%

**NOEC** - No Observed Effect Concentration

**PBT** - Persistent, Bioaccumulative, Toxic

**TWA** - Time Weighted Average

**IARC** - International Agency for Research on Cancer  
Predicted No Effect Concentration (PNEC)

**LD50** - Lethal Dose 50%

**EC50** - Effective Concentration 50%

**POW** - Partition coefficient Octanol:Water

**vPvB** - very Persistent, very Bioaccumulative

**ADR** - European Agreement Concerning the International Carriage of Dangerous Goods by Road

**IMO/IMDG** - International Maritime Organization/International Maritime Dangerous Goods Code

**OECD** - Organisation for Economic Co-operation and Development

**BCF** - Bioconcentration factor

#### Key literature references and sources for data

<https://echa.europa.eu/information-on-chemicals>

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

**ICAO/IATA** - International Civil Aviation Organization/International Air Transport Association

**MARPOL** - International Convention for the Prevention of Pollution from Ships

**ATE** - Acute Toxicity Estimate

**VOC** - (volatile organic compound)

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

**Physical hazards** On basis of test data

**Health Hazards** Calculation method

**Environmental hazards** Calculation method

#### Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

#### Prepared By

Health, Safety and Environmental Department

#### Revision Date

15-Feb-2024

#### Revision Summary

New emergency telephone response service provider.

**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.  
COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No  
1907/2006**

**For Switzerland - Compiled in accordance with the technical provisions referred to in Annex 2,  
Number 3, ChemO (SR 813.11 - Ordinance on Protection against Dangerous Substances and  
Preparations).**

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# **SAFETY DATA SHEET**

Platinum, nominally 10% on carbon black

Revision Date 15-Feb-2024

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**End of Safety Data Sheet**