according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



#### Platinum 98,2-98,7 %

article number: **8408** Version: **3.0 en** Replaces version of: 2021-11-19 Version: (2)

# SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Identification of the substancePlatinum 98,2-98,7 %Article number8408Registration number (REACH)This information is not available.EC number231-116-1CAS number7440-06-4Alternative name(s)Platinum black

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

Relevant identified uses:

Uses advised against:

Do not use for private purposes (household). Food, drink and animal feedingstuffs.

#### **1.3** Details of the supplier of the safety data sheet

Carl Roth GmbH + Co. KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

**Telephone:**+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data Department Health, Safety and Environment sheet:

#### e-mail (competent person):

#### sicherheit@carlroth.de

Laboratory chemical

Laboratory and analytical use

#### 1.4 Emergency telephone number

| Name                                                        | Street        | Postal<br>code/city | Telephone       | Website                     |
|-------------------------------------------------------------|---------------|---------------------|-----------------|-----------------------------|
| National Poisons Information<br>Centre<br>Beaumont Hospital | Beaumont Road | Dublin 9            | +353 1 809 2166 | https://<br>www.poisons.ie/ |

# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

### Classification according to Regulation (EC) No 1272/2008 (CLP)

| Section | Section Hazard class |   | Hazard class and<br>category | Hazard<br>statement |
|---------|----------------------|---|------------------------------|---------------------|
| 2.7     | Flammable solid      | 2 | Flam. Sol. 2                 | H228                |

For full text of abbreviations: see SECTION 16

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# 2.2 Label elements

### Labelling according to Regulation (EC) No 1272/2008 (CLP)

| Signal word       | Warning         |
|-------------------|-----------------|
| Pictograms        | ~               |
| GHS02             |                 |
| Hazard statements |                 |
| H228              | Flammable solid |

#### **Precautionary statements**

#### **Precautionary statements - prevention**

| P210 | Keep away from heat, sparks, open flames, hot surfaces. No smoking |
|------|--------------------------------------------------------------------|
| P280 | Wear protective gloves/eye protection                              |

### **Precautionary statements - response**

P370+P378 In case of fire: Use metal fire powder to extinguish

#### Labelling of packages where the contents do not exceed 125 ml

Signal word: Warning

Symbol(s)



#### 2.3 Other hazards

#### Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

#### **Endocrine disrupting properties**

Does not contain an endocrine disruptor (ED) at a concentration of  $\ge 0,1\%$ .

# **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

| Name of substance | Platinum                            |
|-------------------|-------------------------------------|
| Molecular formula | Pt                                  |
| Molar mass        | 195,1 <sup>g</sup> / <sub>mol</sub> |
| CAS No            | 7440-06-4                           |
| EC No             | 231-116-1                           |



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# **SECTION 4: First aid measures**

### 4.1 Description of first aid measures



#### **General notes**

Take off contaminated clothing.

#### **Following inhalation**

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following skin contact

Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following eye contact

Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following ingestion

Rinse mouth. Call a doctor if you feel unwell.

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

Symptoms and effects are not known to date.

# **4.3 Indication of any immediate medical attention and special treatment needed** none

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media



#### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings In case of fire: Use metal fire powder to extinguish, sand, cement

#### Unsuitable extinguishing media

water jet

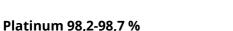
### 5.2 Special hazards arising from the substance or mixture

Danger of dust explosion.

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

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# **SECTION 6: Accidental release measures**

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



### For non-emergency personnel

Control of dust. Avoid contact with skin and eyes. Eliminate all ignition sources if safe to do so.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

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

### Advice on how to contain a spill

Covering of drains. Take up mechanically.

### Advice on how to clean up a spill

Take up mechanically. Control of dust.

### Other information relating to spills and releases

Place in appropriate containers for disposal.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

# SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Avoid dust formation. When not in use, keep containers tightly closed.

#### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. When using do not smoke.

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

Store in a dry place. Keep container tightly closed.

#### Incompatible substances or mixtures

Observe hints for combined storage.

#### Consideration of other advice:

#### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

#### 7.3 Specific end use(s)

No information available.



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# **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### National limit values

#### **Occupational exposure limit values (Workplace Exposure Limits)**

| Coun<br>try | Name of agent | CAS No    | Identifi-<br>er | TWA<br>[mg/<br>m³] | STEL<br>[mg/<br>m³] | Ceil-<br>ing-C<br>[mg/<br>m <sup>3</sup> ] | Nota-<br>tion | Source                  |
|-------------|---------------|-----------|-----------------|--------------------|---------------------|--------------------------------------------|---------------|-------------------------|
| EU          | platinum      | 7440-06-4 | IOELV           | 1                  |                     |                                            |               | 91/322/EEC              |
| IE          | platinum      | 7440-06-4 | OELV            | 1                  |                     |                                            |               | S.I. No. 619<br>of 2001 |

#### Notation

STEL

TWA

Ceiling-C Ceiling value is a limit value above which exposure should not occur

Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15minute period (unless otherwise specified)

Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

#### 8.2 Exposure controls

#### Individual protection measures (personal protective equipment)

#### Eye/face protection



Use safety goggle with side protection.

#### **Skin protection**



#### hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a consider-able reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

#### • type of material

NBR (Nitrile rubber)

#### material thickness

>0,11 mm

#### • breakthrough times of the glove material

>480 minutes (permeation: level 6)



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#### other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

#### **Respiratory protection**



Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P1 (filters at least 80 % of airborne particles, colour code: White).

#### **Environmental exposure controls**

Keep away from drains, surface and ground water.

# **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

| Physical state                                           | solid                                                                                                     |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Form                                                     | powder                                                                                                    |
| Colour                                                   | black                                                                                                     |
| Odour                                                    | odourless                                                                                                 |
| Melting point/freezing point                             | 1.768 °C                                                                                                  |
| Boiling point or initial boiling point and boiling range | 3.825 °C                                                                                                  |
| Flammability                                             | flammable solid in accordance with GHS criteria                                                           |
| Lower and upper explosion limit                          | not determined                                                                                            |
| Flash point                                              | not applicable                                                                                            |
| Auto-ignition temperature                                | not determined                                                                                            |
| Decomposition temperature                                | not relevant                                                                                              |
| pH (value)                                               | not applicable                                                                                            |
| Kinematic viscosity                                      | not relevant                                                                                              |
| Solubility(ies)                                          |                                                                                                           |
| Water solubility                                         | (The study does not need to be conducted be-<br>cause the substance is known to be insoluble in<br>water) |
| Partition coefficient                                    |                                                                                                           |
| Partition coefficient n-octanol/water (log value):       | not relevant (inorganic)                                                                                  |
|                                                          |                                                                                                           |
| Vapour pressure                                          | not determined                                                                                            |
| Density and/or relative density                          |                                                                                                           |
| Density                                                  | 21,45 <sup>g</sup> / <sub>cm³</sub> at 20 °C                                                              |



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| Relative vapour density                             | Information on this property is not available. |
|-----------------------------------------------------|------------------------------------------------|
| Particle characteristics                            | No data available.                             |
| Other safety parameters                             |                                                |
| Oxidising properties                                | none                                           |
| Other information                                   |                                                |
| Information with regard to physical hazard classes: | There is no additional information.            |
| Other safety characteristics:                       | There is no additional information.            |
|                                                     |                                                |

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

9.2

It's a reactive substance. Risk of ignition. Dust explosibility.

#### **10.2** Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### 10.3 Possibility of hazardous reactions

**Risk of ignition:** Combustible materials, Phosphorus, **Exothermic reaction with:** Aluminium, Fluorine, Hydrazine, Arsenic, **Danger of explosion:** Peroxides, Hydrogen

#### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 10.5 Incompatible materials

There is no additional information.

#### **10.6** Hazardous decomposition products

Hazardous combustion products: see section 5.

# SECTION 11: Toxicological information

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

Classification according to GHS (1272/2008/EC, CLP)

#### Acute toxicity

Shall not be classified as acutely toxic.

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

#### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

#### **Respiratory or skin sensitisation**

Shall not be classified as a respiratory or skin sensitiser.

#### Germ cell mutagenicity

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Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

#### **Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

#### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

#### Symptoms related to the physical, chemical and toxicological characteristics

#### • If swallowed

Data are not available.

#### • If in eyes

Data are not available.

#### • If inhaled

Data are not available.

#### • If on skin

Data are not available.

### Other information

none

#### **11.2 Endocrine disrupting properties**

Does not contain an endocrine disruptor (ED) at a concentration of  $\ge 0,1\%$ .

#### **11.3** Information on other hazards

There is no additional information.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

**12.2 Persistence and degradability** 

Data are not available.

- **12.3 Bioaccumulative potential** Data are not available.
- **12.4 Mobility in soil** Data are not available.
- **12.5 Results of PBT and vPvB assessment** Data are not available.



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### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\ge 0,1\%$ .

### 12.7 Other adverse effects

Data are not available.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Recycling/reclamation of metals and metal compounds.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

#### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

### Properties of waste which render it hazardous

HP 3 flammable

#### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

# **SECTION 14: Transport information**

| 14.1 | UN number or ID number     |                                 |
|------|----------------------------|---------------------------------|
|      | ADRRID                     | UN 3089                         |
|      | IMDG-Code                  | UN 3089                         |
|      | ICAO-TI                    | UN 3089                         |
| 14.2 | UN proper shipping name    |                                 |
|      | ADRRID                     | METAL POWDER, FLAMMABLE, N.O.S. |
|      | IMDG-Code                  | METAL POWDER, FLAMMABLE, N.O.S. |
|      | ICAO-TI                    | Metal powder, flammable, n.o.s. |
| 14.3 | Transport hazard class(es) |                                 |
|      | ADRRID                     | 4.1                             |
|      | IMDG-Code                  | 4.1                             |
|      | ICAO-TI                    | 4.1                             |

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| 14.4 | Packing group         |                                                                            |
|------|-----------------------|----------------------------------------------------------------------------|
|      | ADRRID                | III                                                                        |
|      | IMDG-Code             | III                                                                        |
|      | ICAO-TI               | III                                                                        |
| 14.5 | Environmental hazards | non-environmentally hazardous acc. to the dan-<br>gerous goods regulations |

### 14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

# 14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

# 14.8 Information for each of the UN Model Regulations

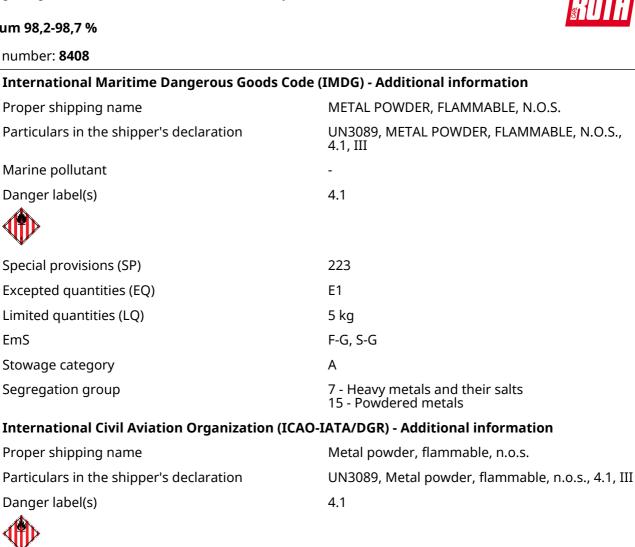
| Agreement concerning the International (<br>information | Carriage of Dangerous Goods by Road (ADR)Additional       |
|---------------------------------------------------------|-----------------------------------------------------------|
| Proper shipping name                                    | METAL POWDER, FLAMMABLE, N.O.S.                           |
| Particulars in the transport document                   | UN3089, METAL POWDER, FLAMMABLE, N.O.S.,<br>4.1, III, (E) |
| Classification code                                     | F3                                                        |
| Danger label(s)                                         | 4.1                                                       |
|                                                         |                                                           |
| Special provisions (SP)                                 | 552                                                       |
| Excepted quantities (EQ)                                | E1                                                        |
| Limited quantities (LQ)                                 | 5 kg                                                      |
| Transport category (TC)                                 | 3                                                         |
| Tunnel restriction code (TRC)                           | E                                                         |
| Hazard identification No                                | 40                                                        |
| Regulations concerning the International information    | Carriage of Dangerous Goods by Rail (RID)Additional       |
| Classification code                                     | F3                                                        |
| Danger label(s)                                         | 4.1                                                       |
|                                                         |                                                           |
| Special provisions (SP)                                 | 552                                                       |
| Excepted quantities (EQ)                                | E1                                                        |
| Limited quantities (LQ)                                 | 5 kg                                                      |
| Transport category (TC)                                 | 3                                                         |
| Hazard identification No                                | 40                                                        |
|                                                         |                                                           |

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EmS



| $\mathbf{V}$             |       |
|--------------------------|-------|
| Special provisions (SP)  | A3    |
| Excepted quantities (EQ) | E1    |
| Limited quantities (LQ)  | 10 kg |

# **SECTION 15: Regulatory information**

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture **Relevant provisions of the European Union (EU)**

**Restrictions according to REACH, Annex XVII** 

| Dangerous substances with restrictions (REACH, Annex XVII) |                        |        |             |    |
|------------------------------------------------------------|------------------------|--------|-------------|----|
| Name of substance                                          | Name acc. to inventory | CAS No | Restriction | Νο |
| Platinum                                                   | flammable / pyrophoric |        | R40         | 40 |

Legend

R40

1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following: - metallic glitter intended mainly for decoration, - artificial snow and frost,

- 'whoopee' cushions,

- silly string aerosols,

- imitation excrement,

 horns for parties, - decorative flakes and foams,

- artificial cobwebs,

- stink bombs.



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#### Legend

2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:

'For professional users only'.

3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (2).

4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.

### List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list Not listed.

#### **Seveso Directive**

| 2012/18/EU (Seveso III) |                                       |                                                                                                 |       |  |
|-------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------|-------|--|
| Νο                      | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the ap-<br>plication of lower and upper-tier re-<br>quirements | Notes |  |
|                         | not assigned                          |                                                                                                 |       |  |

#### **Deco-Paint Directive**

| VOC content | 0 %               |
|-------------|-------------------|
| VOC content | 0 <sup>g</sup> /l |

#### Industrial Emissions Directive (IED)

| VOC content | 0 %                           |
|-------------|-------------------------------|
| VOC content | 0 <sup>g</sup> / <sub>l</sub> |

#### Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

not listed

#### Regulation concerning the establishment of a European Pollutant Release and Transfer **Register (PRTR)**

not listed

#### Water Framework Directive (WFD)

| List of pollutants (WFD) |                            |        |           |         |
|--------------------------|----------------------------|--------|-----------|---------|
| Name of substance        | Name acc. to inventory     | CAS No | Listed in | Remarks |
| Platinum                 | Metals and their compounds |        | a)        |         |

#### Legend

a) Indicative list of the main pollutants

#### Regulation on the marketing and use of explosives precursors

not listed

#### **Regulation on drug precursors**

not listed

#### Regulation on substances that deplete the ozone layer (ODS)

not listed



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#### Regulation concerning the export and import of hazardous chemicals (PIC)

not listed

### **Regulation on persistent organic pollutants (POP)**

not listed

#### **Other information**

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

#### **National inventories**

| Country | Inventory  | Status                       |
|---------|------------|------------------------------|
| AU      | AIIC       | substance is listed          |
| CA      | DSL        | substance is listed          |
| CN      | IECSC      | substance is listed          |
| EU      | ECSI       | substance is listed          |
| EU      | REACH Reg. | substance is listed          |
| KR      | KECI       | substance is listed          |
| MX      | INSQ       | substance is listed          |
| NZ      | NZIoC      | substance is listed          |
| PH      | PICCS      | substance is listed          |
| TR      | CICR       | substance is listed          |
| TW      | TCSI       | substance is listed          |
| US      | TSCA       | substance is listed (ACTIVE) |
| VN      | NCI        | substance is listed          |

Legend

| TCSI | Australian Inventory of Industrial Chemicals<br>Chemical Inventory and Control Regulation<br>Domestic Substances List (DSL)<br>EC Substance Inventory (EINECS, ELINCS, NLP)<br>Inventory of Existing Chemical Substances Produced or Imported in China<br>National Inventory of Chemical Substances<br>Korea Existing Chemicals Inventory<br>National Chemical Inventory<br>New Zealand Inventory of Chemicals<br>Philippine Inventory of Chemicals and Chemical Substances (PICCS)<br>REACH registered substances<br>Taiwan Chemical Substance Inventory |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TSCA | Toxic Substance Control Act                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

#### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance.



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# **SECTION 16: Other information**

### Indication of changes (revised safety data sheet)

| Section | Former entry (text/value)                              | Actual entry (text/value)                                                                                          | Safety-<br>relev-<br>ant |
|---------|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------|
| 2.3     |                                                        | Endocrine disrupting properties:<br>Does not contain an endocrine disruptor (ED) at<br>a concentration of ≥ 0,1%.  | yes                      |
| 14.8    |                                                        | Regulations concerning the International Car-<br>riage of Dangerous Goods by Rail (RID)Addition-<br>al information | yes                      |
| 14.8    |                                                        | Classification code:<br>F3                                                                                         | yes                      |
| 14.8    |                                                        | Danger label(s):<br>4.1                                                                                            | yes                      |
| 14.8    |                                                        | Danger label(s):<br>change in the listing (table)                                                                  | yes                      |
| 14.8    |                                                        | Special provisions (SP):<br>552                                                                                    | yes                      |
| 14.8    |                                                        | Excepted quantities (EQ):<br>E1                                                                                    | yes                      |
| 14.8    |                                                        | Limited quantities (LQ):<br>5 kg                                                                                   | yes                      |
| 14.8    |                                                        | Transport category (TC):<br>3                                                                                      | yes                      |
| 14.8    |                                                        | Hazard identification No:<br>40                                                                                    | yes                      |
| 15.1    | VOC content:<br>0 %<br>, 0 <sup>g</sup> / <sub>l</sub> | VOC content:<br>0 %                                                                                                | yes                      |
| 15.1    |                                                        | VOC content:<br>0 <sup>g</sup> / <sub>l</sub>                                                                      | yes                      |
| 15.1    |                                                        | National inventories:<br>change in the listing (table)                                                             | yes                      |

# Abbreviations and acronyms

| Abbr.      | Descriptions of used abbreviations                                                                                                                                                     |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 91/322/EEC | Commission Directive on establishing indicative limit values by implementing Council Directive 80/1107/<br>EEC                                                                         |
| ADR        | Accord relatif au transport international des marchandises dangereuses par route (Agreement concern-<br>ing the International Carriage of Dangerous Goods by Road)                     |
| CAS        | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)                                                                                 |
| Ceiling-C  | Ceiling value                                                                                                                                                                          |
| CLP        | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures                                                                                     |
| DGR        | Dangerous Goods Regulations (see IATA/DGR)                                                                                                                                             |
| EC No      | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identi-<br>fier of substances commercially available within the EU (European Union) |

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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| Abbr.                   | Descriptions of used abbreviations                                                                                                                                           |  |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| ED                      | Endocrine disruptor                                                                                                                                                          |  |
| EINECS                  | European Inventory of Existing Commercial Chemical Substances                                                                                                                |  |
| ELINCS                  | European List of Notified Chemical Substances                                                                                                                                |  |
| EmS                     | Emergency Schedule                                                                                                                                                           |  |
| GHS                     | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na-<br>tions                                                               |  |
| ΙΑΤΑ                    | International Air Transport Association                                                                                                                                      |  |
| IATA/DGR                | Dangerous Goods Regulations (DGR) for the air transport (IATA)                                                                                                               |  |
| ICAO                    | International Civil Aviation Organization                                                                                                                                    |  |
| ICAO-TI                 | Technical instructions for the safe transport of dangerous goods by air                                                                                                      |  |
| IMDG                    | International Maritime Dangerous Goods Code                                                                                                                                  |  |
| IMDG-Code               | International Maritime Dangerous Goods Code                                                                                                                                  |  |
| IOELV                   | Indicative occupational exposure limit value                                                                                                                                 |  |
| NLP                     | No-Longer Polymer                                                                                                                                                            |  |
| PBT                     | Persistent, Bioaccumulative and Toxic                                                                                                                                        |  |
| REACH                   | Registration, Evaluation, Authorisation and Restriction of Chemicals                                                                                                         |  |
| RID                     | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula-<br>tions concerning the International carriage of Dangerous goods by Rail) |  |
| S.I. No. 619 of<br>2001 | Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001                                                                                                        |  |
| STEL                    | Short-term exposure limit                                                                                                                                                    |  |
| SVHC                    | Substance of Very High Concern                                                                                                                                               |  |
| TWA                     | Time-weighted average                                                                                                                                                        |  |
| VOC                     | Volatile Organic Compounds                                                                                                                                                   |  |
| vPvB                    | Very Persistent and very Bioaccumulative                                                                                                                                     |  |

#### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text             |
|------|------------------|
| H228 | Flammable solid. |

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.