

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

- **1.1 Product identifier**
  - Trade name: **120-41-9502**
  - Article number: 72-C61.4L86
  - Version number: 1
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture:** Powder coating material
- **1.3 Details of the supplier of the safety data sheet**
  - **Identification of the company/undertaking:**  
CENARIS GmbH  
Industriestraße 20  
28199 Bremen - Deutschland  
Tel. + (49) 421 596608 33 Fax. + (49) 421 596608 88  
www.cenaris.com
  - **Further information obtainable from:**  
E-mail address of the competent person responsible for the Safety Data Sheet: info@cenaris.com
- **1.4 Emergency telephone number:** - Antipoison Information Center (24 hours): + (49) 0551 19240

## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
  - **Classification according to Regulation (EC) No 1272/2008**  
The product is not classified, according to the CLP regulation.
- **2.2 Label elements**
  - **Labelling according to Regulation (EC) No 1272/2008** Void
  - **Hazard pictograms** Void
  - **Signal word** Void
  - **Hazard statements** Void
  - **Additional information:**  
Contains benzene-1,2,4-tricarboxylic-1,2-anhydride. May produce an allergic reaction.
- **2.3 Other hazards**
  - **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
  - **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 13463-67-7 EINECS: 236-675-5 Reg.nr.: 01-2119489379-17	titanium dioxide substance with a Community workplace exposure limit	2.5-10%
CAS: 7429-90-5 EINECS: 231-072-3 Reg.nr.: 01-2119529243-45	aluminium powder (pyrophoric) substance with a Community workplace exposure limit	1-2.5%

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CAS: 552-30-7	benzene-1,2,4-tricarboxylic-1,2-anhydride	≤0.5%
EINECS: 209-008-0	⚠ Resp. Sens. 1, H334; ⚠ Eye Dam. 1, H318; ⚠ Skin	
Reg.nr.: 01-2119489422-34	Sens. 1, H317; STOT SE 3, H335	

### SVHC

CAS: 552-30-7 benzene-1,2,4-tricarboxylic-1,2-anhydride

Additional information: For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

- 4.1 Description of first aid measures
  - General information: No special measures required.
  - After inhalation: Supply fresh air; consult doctor in case of complaints.
  - After skin contact: Generally the product does not irritate the skin.
  - After eye contact: Rinse opened eye for several minutes under running water.
  - After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed
  - No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
  - No further relevant information available.

## SECTION 5: Firefighting measures

- 5.1 Extinguishing media
  - Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture
  - No further relevant information available.
- 5.3 Advice for firefighters
  - Protective equipment: It might be necessary to use self-contained respiratory protective device.

## SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
  - Not required.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Pick up mechanically.
- 6.4 Reference to other sections
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.

## SECTION 7: Handling and storage

- 7.1 Precautions for safe handling
  - No special measures required.
  - To remove contaminated clothing and protective equipment before entering eating areas.
  - To wash hands after use.
  - Not to eat, drink and smoke in work areas.
- Information about fire - and explosion protection: No special measures required.

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- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

### 8.1 Control parameters

- **Ingredients with limit values that require monitoring at the workplace:**

**CAS: 13463-67-7 titanium dioxide**

WEL Long-term value: 10\* 4\*\* mg/m<sup>3</sup>  
\*total inhalable \*\*respirable

**CAS: 7429-90-5 aluminium powder (pyrophoric)**

WEL Long-term value: 10\* 4\*\* mg/m<sup>3</sup>  
\*inhalable dust \*\* respirable dust

**CAS: 552-30-7 benzene-1,2,4-tricarboxylic-1,2-anhydride**

WEL Short-term value: 0.12 mg/m<sup>3</sup>  
Long-term value: 0.04 mg/m<sup>3</sup>  
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### · DNELs

**CAS: 13463-67-7 titanium dioxide**

Oral	DNEL Long term systemic effects	700 mg/kg/day (consumer)
Inhalative	DNEL Long term systemic effects	10 mg/m <sup>3</sup> (consumer) 10 mg/m <sup>3</sup> (worker)

**CAS: 552-30-7 benzene-1,2,4-tricarboxylic-1,2-anhydride**

Oral	DNEL Long term systemic effects	2.5 mg/kg/day (consumer)
	DNEL Sort term systemic effects	5 mg/kg/day (consumer)
Dermal	DNEL Long term systemic effects	5 mg/kg bw/24h (worker)
	DNEL Short term systemic effects	5 mg/kg/ bw/24h (consumer) 10 mg/kg/ bw/24h (worker)
Inhalative	DNEL Long term systemic effects	4.4 mg/m <sup>3</sup> (consumer) 17.5 mg/m <sup>3</sup> (worker)
	DNEL Short term systemic effects	8.8 mg/m <sup>3</sup> (consumer) 35 mg/m <sup>3</sup> (worker)

### · PNECs

**CAS: 552-30-7 benzene-1,2,4-tricarboxylic-1,2-anhydride**

PNEC aqua	0.739 mg/l (fresh water) 0.0739 mg/l (marine water) 7.39 mg/l (intermittent release)
PNEC sediment	0.497 mg/kg (sediments (sea water))

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PNEC soil	4.97 mg/kg (sediment (fresh water))
	9.95 mg/kg (soil)

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

· **Respiratory protection:**

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators.

· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Not required.

## SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Solid

Colour: According to product specification

· **Odour:** Characteristic

· **Odour threshold:** Not determined.

· **pH-value:** Not applicable.

· **Change in condition**

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: Undetermined.

· **Flash point:** >100 °C

· **Flammability (solid, gas):** Not determined.

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Product is not selfigniting.

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· <b>Explosive properties:</b>	Risk of explosion of the mixture powder/air in the presence of sources of ignition
· <b>Explosion limits:</b>	
Lower:	Not determined.
Upper:	Not determined.
· <b>Vapour pressure:</b>	Not applicable.
· <b>Density at 20 °C:</b>	1.5 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not applicable.
· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with water:</b>	Insoluble.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Solids content (w/w):</b>	99.8 %
· <b>9.2 Other information:</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

#### · LD/LC50 values relevant for classification:

##### CAS: 13463-67-7 titanium dioxide

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rbt)
Inhalative	LC50/4 h	6.82 mg/l (rat)

##### CAS: 7429-90-5 aluminium powder (pyrophoric)

Oral	LD50	>2,000 mg/kg (rat)
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##### CAS: 552-30-7 benzene-1,2,4-tricarboxylic-1,2-anhydride

Oral	LD50	5,600 mg/kg (rat)
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- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

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- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity:

**CAS: 13463-67-7 titanium dioxide**

EC50/48 h &gt;100 mg/l (daphnia magna)

EC50r/72 h &gt;100 mg/l (pseudokirchneriella subcapitata (algae))

EL50/48 h &gt;100 mg/l (daphnia magna)

LC50/96 h &gt;1,000 mg/l (pim)

**CAS: 7429-90-5 aluminium powder (pyrophoric)**

LC50/96 h 2.6 mg/l (fish)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Recommendation

Disposal must be made according to official regulations.

Contact waste processors for recycling information.

#### Uncleaned packaging:

- **Recommendation:** Disposal must be made according to official regulations.

## SECTION 14: Transport information

### 14.1 UN-Number

ADR, ADN, IMDG, IATA

Void

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· <b>14.2 UN proper shipping name</b>	
· <b>ADR, ADN, IMDG, IATA</b>	Void
· <b>14.3 Transport hazard class(es)</b>	
· <b>ADR, ADN, IMDG, IATA</b>	
· <b>Class</b>	Void
· <b>14.4 Packing group</b>	
· <b>ADR, IMDG, IATA</b>	Void
· <b>14.5 Environmental hazards:</b>	Not applicable.
· <b>14.6 Special precautions for user</b>	Not applicable.
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	Void

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Other regulations, limitations and prohibitive regulations**
- **Substances of very high concern (SVHC) according to REACH, Article 57**
- CAS: 552-30-7 benzene-1,2,4-tricarboxylic-1,2-anhydride
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- **Department issuing SDS:** CENARIS GmbH
- **Contact:** See adress in section 1 on this MSDS
- **Abbreviations and acronyms:**
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances

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## **SAFETY DATA SHEET**

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CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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