

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

#### 1.1. Product identifier

Mixture identification:

Trade name: S110080  
Trade code: C13S110080

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

Recommended use:

Toner for electrophotographic printing

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

Company:

EPSON EUROPE B.V.  
Azie building, Atlas ArenA, Hoogoorddreef 5, 1101 BA Amsterdam  
Zuidoost The Netherlands  
Phone number: +31-20-314-5000

3rd and 4th Floors, The Clarendon Works, 37-39 Clarendon Road,  
Watford, WD17 1JA, United Kingdom  
Phone number: +44-1442-261144

Competent person responsible for the safety data sheet:

chemicals@epson.eu

Date: 29/07/2025

Revision: 3.0

#### 1.4. Emergency telephone number

United Kingdom; 01952 607111 Monday to Friday 9am to 5:30pm.  
Emergency Action: In the event of a medical enquiry involving  
this product, please contact your doctor or local hospital  
accident and emergency department.  
Ireland; +353 (01) 809 2566 or +353 (01) 809 2166 8am – 10pm  
Malta; 2545 0000 or 21224071

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

This titanium dioxide-containing product is not classified as carcinogen by inhalation because it does not meet the criteria stated in Note 10, Annex VI of Regulation (EC) 1272/2008.

Adverse physicochemical, human health and environmental effects:

No other hazards

#### 2.2. Label elements

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Hazard pictograms:

None

Hazard statements:

None

Precautionary statements:

None

Special Provisions:

EUH210 Safety data sheet available on request.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

### 2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration  $\geq 0.1\%$

Other Hazards:

No other hazards

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

No

### 3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

| Qty          | Name                                  | Ident. Number                                                  | Classification                                                                                        |
|--------------|---------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| 40 ~<br>50 % | Polyester                             |                                                                | The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).                |
| 40 ~<br>50 % | Iron oxide( $\text{Fe}_3\text{O}_4$ ) | CAS: 1317-61-9<br>EC: 215-277-5                                | The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).                |
| 1 ~ 5 %      | Wax                                   |                                                                | The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).                |
| < 1 %        | Titanium dioxide                      | Index number: 022-006-00-2<br>CAS: 13463-67-7<br>EC: 236-675-5 |  3.6/2 Carc. 2 H351 |

This mixture contains  $\geq 1\%$  titanium dioxide (CAS 13463-67-7). The Annex VI classification of titanium dioxide does not apply to this mixture according to its Note 10.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

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

Treatment:

None

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide ( $\text{CO}_2$ ).

Extinguishing media which must not be used for safety reasons:

None in particular.

- 5.2. Special hazards arising from the substance or mixture
  - Do not inhale explosion and combustion gases.
  - Burning produces heavy smoke.
- 5.3. Advice for firefighters
  - Use suitable breathing apparatus .
  - Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
  - Move undamaged containers from immediate hazard area if it can be done safely.

### SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
  - Wear personal protection equipment.
  - Remove persons to safety.
  - See protective measures under point 7 and 8.
- 6.2. Environmental precautions
  - Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
  - Retain contaminated washing water and dispose it.
  - In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
  - Suitable material for taking up: absorbing material, organic, sand
- 6.3. Methods and material for containment and cleaning up
  - Sweep away with a broom, or wipe with waste wet with soapy water.
  - Do not vacuum-clean up spilled toner. (When a vacuum cleaner is used, the inside of the vacuum cleaner is filled with the fine particle toner, and there is a risk of ignition or explosion due to the spark)
  - Wash with plenty of water.
- 6.4. Reference to other sections
  - See also section 8 and 13

### SECTION 7: Handling and storage

- 7.1. Precautions for safe handling
  - Avoid contact with skin and eyes, inhalation of vapours and mists.
  - See also section 8 for recommended protective equipment.
  - Advice on general occupational hygiene:
    - Do not eat or drink while working.
- 7.2. Conditions for safe storage, including any incompatibilities
  - Keep away from food, drink and feed.
  - Incompatible materials:
    - None in particular.
  - Instructions as regards storage premises:
    - Adequately ventilated premises.
- 7.3. Specific end use(s)
  - None in particular

### SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters
  - OEL Type: ACGIH - TWA: 10 mg/m<sup>3</sup> - Notes: Inhalable particles
  - OEL Type: ACGIH - TWA: 3 mg/m<sup>3</sup> - Notes: Respirable particles
  - OEL Type: OSHA - TWA: 15 mg/m<sup>3</sup> - Notes: Total dust
  - OEL Type: OSHA - TWA: 5 mg/m<sup>3</sup> - Notes: Respirable fraction
  - OEL Type: JSOH - TWA: 8 mg/m<sup>3</sup> - Notes: Class 3 Dusts (Total dust)
  - OEL Type: JSOH - TWA: 2 mg/m<sup>3</sup> - Notes: Class 3 Dusts (Respirable dust)
  - Iron oxide(Fe<sub>3</sub>O<sub>4</sub>) - CAS: 1317-61-9
    - OEL Type: JSOH - TWA: 1 mg/m<sup>3</sup> - Notes: Class 2 Dusts (Respirable dust)

- OEL Type: JSOH - TWA: 4 mg/m<sup>3</sup> - Notes: Class 2 Dusts (Total dust)
- Wax
  - OEL Type: ACGIH - TWA(8h): 2 mg/m<sup>3</sup>
  - OEL Type: OSHA - TWA: 2 mg/m<sup>3</sup>
- titanium dioxide - CAS: 13463-67-7
  - OEL Type: ACGIH - TWA(8h): 0.2 mg/m<sup>3</sup>
  - OEL Type: OSHA - TWA: 15 mg/m<sup>3</sup>
  - OEL Type: JSOH - TWA: 0.3 mg/m<sup>3</sup> - Notes: (nanoparticle, as Ti)
  - OEL Type: JSOH - TWA: 1 mg/m<sup>3</sup> - Notes: as Class 2 Dusts (Respirable dust)
  - OEL Type: JSOH - TWA: 4 mg/m<sup>3</sup> - Notes: as Class 2 Dusts (Total dust)
  - OEL Type: ACGIH - TWA(8h): 2.5 mg/m<sup>3</sup>
- DNEL Exposure Limit Values
  - No data available
- PNEC Exposure Limit Values
  - No data available
- 8.2. Exposure controls
  - 8.2.1. Appropriate engineering controls:
    - None
  - 8.2.2. Individual protection measures, such as personal protective equipment
    - Eye protection:
      - Use personal protective equipment as required.
    - Protection for skin:
      - Use personal protective equipment as required.
    - Protection for hands:
      - Use personal protective equipment as required.
    - Respiratory protection:
      - Use personal protective equipment as required.
    - Thermal Hazards:
      - None
  - 8.2.3. Environmental exposure controls:
    - None
  - Appropriate engineering controls:
    - None

### SECTION 9: Physical and chemical properties

- 9.1. Information on basic physical and chemical properties
 

|                                                           |                                     |
|-----------------------------------------------------------|-------------------------------------|
| Physical state:                                           | Powder                              |
| Colour:                                                   | Black                               |
| Odour:                                                    | Slightly                            |
| Melting point / freezing point:                           | 100-200 °C                          |
| Boiling point or initial boiling point and boiling range: | No data available                   |
| Lower and upper explosion limit:                          | No data available                   |
| Flash point:                                              | Not Relevant                        |
| Auto-ignition temperature:                                | No data available                   |
| Decomposition temperature:                                | No data available                   |
| pH:                                                       | Not Relevant                        |
| Kinematic viscosity:                                      | Not Relevant                        |
| Solubility in water:                                      | Insoluble                           |
| Vapour pressure:                                          | No data available                   |
| Density and/or relative density:                          | 1.5-1.8 at 20 °C                    |
|                                                           | Specific gravity (relative density) |
| Relative vapour density:                                  | No data available                   |
| Particle characteristics:                                 |                                     |

Particle size:

No data available

### 9.2. Other information

No other relevant information

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions

### 10.2. Chemical stability

Stable under normal conditions

### 10.3. Possibility of hazardous reactions

None

### 10.4. Conditions to avoid

Stable under normal conditions.

### 10.5. Incompatible materials

None in particular.

### 10.6. Hazardous decomposition products

None.

## SECTION 11: Toxicological information

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

Toxicological information of the product:

#### a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg

Test: LC50 - Route: Inhalation Gas - Species: Rat > 5.16 mg/l

#### b) skin corrosion/irritation:

Test: Skin Irritant - Species: Rabbit Non-irritant

#### c) serious eye damage/irritation:

Test: Eye Irritant - Species: Rabbit Mild irritant

#### d) respiratory or skin sensitisation:

Test: Skin Sensitisation - Species: Mouse Non-sensitiser

#### e) germ cell mutagenicity:

Test: Mutagenesis - Species: Salmonella Typhimurium and Escherichia coli  
Negative

#### f) carcinogenicity:

Components do not come under carcinogens (Ref. 1), except for Titanium dioxide

#### g) reproductive toxicity:

Does not contain reproductive toxicity and developmental toxic substances (Ref. 2)

#### i) STOT-repeated exposure:

Prolonged inhalation of excessive dust may cause lung damage. It is attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. Use of this product, as intended, does not result in inhalation of excessive dust.

In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of rats in the high concentration (16mg/m<sup>3</sup>) exposure group, and a minimal to mid degree of fibrosis was noted in 22% of the animals in the middle (4mg/m<sup>3</sup>) exposure group. But no pulmonary change was reported in the lowest (1mg/m<sup>3</sup>) exposure group, the most relevant level to potential human exposures.(Ref. 3)

Toxicological information of the main substances found in the product:

titanium dioxide - CAS: 13463-67-7

Titanium dioxide is classified as “possibly carcinogenic to human”(Group 2B). In animal chronic inhalation studies, the tumor formulation observed in only rats with animal chronic inhalation study are attributed to “lung overloading”, a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. Use of this product, as intended, does not result in inhalation of excessive dust. Epidemiological study to date have not revealed any evidence of the relation between exposure to titanium dioxide and diseases of the respiratory tract beyond general effects of dust.(Ref. 4)

If not differently specified, the information required in Regulation (EU)2020/878 listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

## SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Toxicological information of the product:

No data available

Toxicological information of the main substances found in the product:

No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

12.7. Other adverse effects

None

## SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

## SECTION 14: Transport information

14.1. UN number or ID number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

- No data available
- 14.3. Transport hazard class(es)  
No data available
- 14.4. Packing group  
No data available
- 14.5. Environmental hazards  
No data available
- 14.6. Special precautions for user  
No data available
- 14.7. Maritime transport in bulk according to IMO instruments  
No data available

### SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
- Dir. 98/24/EC (Risks related to chemical agents at work)
  - Dir. 2000/39/EC (Occupational exposure limit values)
  - Regulation (EC) n. 1907/2006 (REACH)
  - Regulation (EC) n. 1272/2008 (CLP)
  - Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
  - Regulation (EU) n. 2020/878
  - Regulation (EU) n. 286/2011 (ATP 2 CLP)
  - Regulation (EU) n. 618/2012 (ATP 3 CLP)
  - Regulation (EU) n. 487/2013 (ATP 4 CLP)
  - Regulation (EU) n. 944/2013 (ATP 5 CLP)
  - Regulation (EU) n. 605/2014 (ATP 6 CLP)
  - Regulation (EU) n. 2015/1221 (ATP 7 CLP)
  - Regulation (EU) n. 2016/918 (ATP 8 CLP)
  - Regulation (EU) n. 2016/1179 (ATP 9 CLP)
  - Regulation (EU) n. 2017/776 (ATP 10 CLP)
  - Regulation (EU) n. 2018/669 (ATP 11 CLP)
  - Regulation (EU) n. 2018/1480 (ATP 13 CLP)
  - Regulation (EU) n. 2019/521 (ATP 12 CLP)
  - Regulation (EU) n. 2020/217 (ATP 14 CLP)
  - Regulation (EU) n. 2020/1182 (ATP 15 CLP)
  - Regulation (EU) n. 2021/643 (ATP 16 CLP)
  - Regulation (EU) n. 2021/849 (ATP 17 CLP)
  - Regulation (EU) n. 2022/692 (ATP 18 CLP)
  - Regulation (EU) n. 2023/1434 (ATP 19 CLP)
  - Regulation (EU) n. 2023/1435 (ATP 20 CLP)
  - Regulation (EU) n. 2024/197 (ATP 21 CLP)
- Restrictions related to the product or the substances contained according to Annex XVII
- Regulation (EC) 1907/2006 (REACH) and subsequent modifications:
- Restrictions related to the product:
    - No restriction.
  - Restrictions related to the substances contained:
    - Restriction 75
- Where applicable, refer to the following regulatory provisions :
- Directive 2012/18/EU (Seveso III)
  - Regulation (EC) nr 648/2004 (detergents).
  - Dir. 2004/42/EC (VOC directive)
- Provisions related to directive EU 2012/18 (Seveso III):
- Seveso III category according to Annex 1, part 1
  - None

### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

## SECTION 16: Other information

Full text of phrases referred to in Section 3:

H351 Suspected of causing cancer if inhaled.

| Hazard class and hazard category | Code  | Description                 |
|----------------------------------|-------|-----------------------------|
| Carc. 2                          | 3.6/2 | Carcinogenicity, Category 2 |

Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking  
 SECTION 2: Hazards identification  
 SECTION 3: Composition/information on ingredients  
 SECTION 4: First aid measures  
 SECTION 5: Firefighting measures  
 SECTION 6: Accidental release measures  
 SECTION 7: Handling and storage  
 SECTION 8: Exposure controls/personal protection  
 SECTION 9: Physical and chemical properties  
 SECTION 10: Stability and reactivity  
 SECTION 11: Toxicological information  
 SECTION 12: Ecological information  
 SECTION 13: Disposal considerations  
 SECTION 14: Transport information  
 SECTION 15: Regulatory information  
 SECTION 16: Other information

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,  
 Commission of the European Communities  
 SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van  
 Nostrand Reinold

- Ref. 1 ·IARC Monographs on the Evaluation Carcinogenic Risks to Humans (IARC:  
 International Agency for Research on Cancer)  
 ·Journal of Occupational Health (JOH) (Japan Society of Occupational Health (JSOH))  
 ·TLVs and BEIs (ACGIH: American Conference of Governmental Industrial Hygienists)  
 ·IRIS Carcinogenic Assessment (IRIS: Integrated Risk Information System of US EPA)  
 ·National Toxicology Program (NTP) Report on Carcinogens (USA)  
 ·Annex VI of REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT  
 AND OF THE COUNCIL of 16 December 2008 on classification, labelling and  
 packaging of substances and mixtures, amending and repealing Directives 67/548/EEC  
 and 1999/45/EC, and amending Regulation (EC) No 1907/2006  
 ·MAK und BAT Werte Liste (DFG: German Research Foundation)  
 ·TRGS 905, Verzeichnis krebserzeugender, keimzell mutagener oder  
 reproduktionstoxischer Stoffe (AGS: Committee on Hazardous Substances, Germany)
- Ref. 2 ·Annex VI of REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT  
 AND OF THE COUNCIL of 16 December 2008 on classification, labelling and

- packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- TRGS 905, Verzeichnis krebserzeugender, keimzell mutagener oder reproduktionstoxischer Stoffe (AGS: Committee on Hazardous Substances, Germany)
- Ref. 3 · Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats, H.Muhle et.al, Fundamental and Applied Toxicology 17.280-299(1991)
- Lung Clearance and Retention of Toner, Utilizing a Tracer Technique, during Chronic Inhalation Exposure in Rats, B.Bellmann, Fundamental and Applied Toxicology 17.300-313(1991)
- Ref. 4 · NIOSH CURRENT INTELLIGENCE BULLETIN 63: Occupational Exposure to Titanium Dioxide

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This Safety Data Sheet cancels and replaces any preceding release.

|             |                                                                                      |
|-------------|--------------------------------------------------------------------------------------|
| ADR:        | European Agreement concerning the International Carriage of Dangerous Goods by Road. |
| ATE:        | Acute Toxicity Estimate                                                              |
| ATEmix:     | Acute toxicity Estimate (Mixtures)                                                   |
| CAS:        | Chemical Abstracts Service (division of the American Chemical Society).              |
| CLP:        | Classification, Labeling, Packaging.                                                 |
| DNEL:       | Derived No Effect Level.                                                             |
| EINECS:     | European Inventory of Existing Commercial Chemical Substances.                       |
| GefStoffVO: | Ordinance on Hazardous Substances, Germany.                                          |
| GHS:        | Globally Harmonized System of Classification and Labeling of Chemicals.              |
| IATA:       | International Air Transport Association.                                             |
| IATA-DGR:   | Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  |
| ICAO:       | International Civil Aviation Organization.                                           |
| ICAO-TI:    | Technical Instructions by the "International Civil Aviation Organization" (ICAO).    |
| IMDG:       | International Maritime Code for Dangerous Goods.                                     |
| INCI:       | International Nomenclature of Cosmetic Ingredients.                                  |
| KSt:        | Explosion coefficient.                                                               |
| LC50:       | Lethal concentration, for 50 percent of test population.                             |
| LD50:       | Lethal dose, for 50 percent of test population.                                      |
| PNEC:       | Predicted No Effect Concentration.                                                   |
| RID:        | Regulation Concerning the International Transport of Dangerous Goods by Rail.        |
| STEL:       | Short Term Exposure limit.                                                           |
| STOT:       | Specific Target Organ Toxicity.                                                      |
| TLV:        | Threshold Limiting Value.                                                            |
| TWA:        | Time-weighted average                                                                |
| WGK:        | German Water Hazard Class.                                                           |