

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

- 1.1. Product identifier
 - Mixture identification: Trade name:

Toner S050559

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 Competent person responsible for the safety data sheet: chemicals@epson.eu Date: 28/02/2024 Revision: 3.0 1.4. Emergency telephone number +31-20-314-5000 Phone number: Monday to Friday 9am to 5:30pm. United Kingdom; 01952 607111 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 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 >= 0.1% Other Hazards:

No other hazards

CLP, S050559_en Page n. 1 of 9 Version 8.2 Revision 3.0



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. Num	ber	Classification
65% ~ 80%	Styrene / acrylic resin			The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
12.5% ~ 15%	Wax			The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
0.5% ~ 1%	Titanium dioxide	Index number: CAS: EC:	022-006-00-2 13463-67-7 236-675-5	
0.25% ~ 0.5%	Strontium titanium oxide	CAS: EC:	12060-59-2 235-044-1	The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

This mixture contains >= 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 (CO2).
- 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

CLP, S050559_en Page n. 2 of 9



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
 - KM Toner Amber/Citrine_M
 - OEL Type: JSOH TWA: 2 mg/m3 Notes: as Class 3 Dusts (Respirable dust)
 - OEL Type: JSOH TWA: 8 mg/m3 Notes: as Class 3 Dusts (Total dust)
 - OEL Type: ACGIH TWA: 3 mg/m3 Notes: as Respirable particles
 - OEL Type: ACGIH TWA: 10 mg/m3 Notes: as Inhalable particles

Wax

- OEL Type: ACGIH TWA(8h): 2 mg/m3
- OEL Type: OSHA TWA: 2 mg/m3
- titanium dioxide CAS: 13463-67-7
 - OEL Type: ACGIH TWA(8h): 0.2 mg/m3
 - OEL Type: OSHA TWA: 15 mg/m3
 - OEL Type: JSOH TWA: 0.3 mg/m3 Notes: (nanoparticle, as Ti)

CLP, S050559_en Page n. 3 of 9 Version 8.2 Revision 3.0



- OEL Type: JSOH - TWA: 1 mg/m3 - Notes: as Class 2 Dusts (Respirable dust) - OEL Type: JSOH - TWA: 4 mg/m3 - Notes: as Class 2 Dusts (Total dust) - OEL Type: ACGIH - TWA(8h): 2.5 mg/m3 **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: Magenta Slightly Odour: Melting point / freezing point: No data available 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 Not Relevant pH: Kinematic viscosity: Not Relevant

Insoluble

1.2

No data available

No data available

No data available

Specific gravity (relative density)

Kinematic viscosity: Solubility in water: Vapour pressure: Density and/or relative density:

Relative vapour density: Particle characteristics: Particle size:

9.2. Other information No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity Stable under normal conditions

CLP, S050559_en Page n. 4 of 9



- 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.

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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 > 2500 mg/kg

Test: LC50 - Route: Inhalation Dust - Species: Rat > 4.77 mg/l

- b) skin corrosion/irritation:
 - Test: Skin Irritant Species: Rabbit Non-irritant
- c) serious eye damage/irritation:

Test: Eye Irritant - Species: Rabbit Minimal irritant

d) respiratory or skin sensitisation:

Test: Skin Sensitisation - Route: Maximisation Assay - Species: Guinea pig Non-sensitiser

e) germ cell mutagenicity:

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

f) carcinogenicity:

Components do not come under carcinogens (Ref. 2), except for Titanium dioxide

g) reproductive toxicity:

Does not contain reproductive toxicity and developmental toxic substances (Ref. 3)

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/m3) exposure group, and a minimal to mid degree of fibrosis was noted in 22% of the animals in the middle (4mg/m3) exposure group. But no pulmonary change was reported in the lowest (1mg/m3) exposure group, the most relevant level to potential human exposures.(Ref. 4)

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 inhalationm 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 of any dust retained in the lungs for a prolonged interval. Use of this product, as intended, dose 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. 5)

CLP, S050559_en Page n. 5 of 9 Version 8.2 Revision 3.0



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 >= 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 >= 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

CLP, S050559_en

Page n. 6 of 9



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) 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.

Ī	Hazard class and	Code	Description
	hazard category		



Carc. 2	3.6/2	Carcinogenicity, Category 2			
Dorograph	s modified from the previous	rovicion			
		substance/mixture and of the company/undertaking			
	CTION 6: Accidental release r				
	CTION 11: Toxicological infor				
	CTION 15: Regulatory information				
his docur	nent was prepared by a com	petent person who has received appropriate training.			
	graphic sources:				
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	mission of the European Co				
		IES OF INDUSTRIAL MATERIALS - Eight Edition - Van			
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Ref. 1		explosion: p. 98 - p. 105 (Japan Industrial Safety and Hea			
Ref. 2	Association)	Evaluation Carcinogonic Ricks to Humans (IARC)			
	 IARC Monographs on the Evaluation Carcinogenic Risks to Humans (IARC: International Agency for Research on Cancer) 				
		lealth (JOH) (Japan Society of Occupational Health (JSOH			
		American Conference of Governmental Industrial Hygienist			
	IRIS Carcinogenic Assessment (IRIS: Integrated Risk Information System of US EPA)				
	•National Toxicology Program (NTP) Report on Carcinogens (USA)				
	·Annex VI of REGULATIO	N (EC) No 1272/2008 OF THE EUROPÉAN PARLIAMENT			
	AND OF THE COUNCIL of 16 December 2008 on classification, labelling and				
	packaging of substances and mixtures, amending and repealing Directives 67/548/EE				
		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. 3		N (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT			
Rel. 3		f 16 December 2008 on classification, labelling and			
		and mixtures, amending and repealing Directives 67/548/El			
		nding Regulation (EC) No 1907/2006			
		rebserzeugender, keimzell mutagener oder			
		offe (AGS: Committee on Hazardous Substances, Germany			
Ref. 4		Foner upon Chronic Inhalation Exposure in Rats, H.Muhle			
		plied Toxicology 17.280-299(1991)			
		ntion of Toner, Utilizing a Tracer Technique, during Chroni			
		ts, B.Bellmann, Fundamental and Applied Toxicology			
	17.300-313(1991)				
Ref. 5		LIGENCE BULLETIN 63: Occupational Exposure to			
	Titanium Dioxide				
The inform	ation contained herein is has	sed on our state of knowledge at the above-specified date.			
		ad constitutes no guarantee of particular quality.			
		his information is appropriate and complete with respect to			
	c use intended.				
•		places any preceding release.			
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ADR:	European Agreement c	oncerning the International Carriage of			
	Dangerous Goods by R				
ATE:	Acute Toxicity Estimate				
ATEmix:	Acute toxicity Estimate				
CAS:		rvice (division of the American Chemical			
	Society).				



CLP: DNEL: EINECS: GefStoffVO: GHS:	Classification, Labeling, Packaging. Derived No Effect Level. European Inventory of Existing Commercial Chemical Substances. Ordinance on Hazardous Substances, Germany. Globally Harmonized System of Classification and Labeling of Chemicals.
IATA: IATA-DGR:	International Air Transport Association. Dangerous Goods Regulation by the "International Air Transport
IATA-DGR.	Association" (IATA).
ICAO:	International Civil Áviation 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.