

 					
Printer – Kyocera TASKalfa 2551c – Osprey Court					
Product Name		Black Toner for Taskalfa 2551Ci		Risk Assessment Number	
Manufacturer		Kyocera		Product Code	
Manufacturer Contact Number		KYOCERA Document Solutions Inc +31 (0) 6540000 MSDS@deu.kyocera.com		Manufacturer's CAS Ref. (on Safety Data Sheet)	
Manufacturer Safety Data Sheet (MSDS)		Yes		Date of MSDS	
		28/11/2019 (no revision – checked with manufacturer)			
Hazard Classifications (Tick as appropriate) This is classified as not hazardous according to regulation EC 1272/2008 GHS	☐		☐		☐
		Explosive		Corrosive	
	☐		☒		☐
		Flammable		Hazardous to the environment	
☐		☐		☐	
		Oxidising		Serious health hazard	
		This is classified as not hazardous according to regulation EC 1272/2008 GHS			
Are Any Hazardous Substances Produced by any Processes?		NO			
Who might it effect?		This is classified as not hazardous according to regulation EC 1272/2008 GHS			
					
Controls in Place	☐	Total enclosure of the process	☐	Partial enclosure of the process	☒
					General workplace ventilation
	☐	Wet methods (to control dust)	☐	Respiratory Protection	☐
					Eye Protection
☒	Gloves	☐	Overalls	☐	Other

Precautions & Personal Protection 	Good Ventilation, Gloves, Apron		
Emergency First Aid 	Swallowed: Rinse out the mouth. Drink one or two glasses of water to dilute. Seek medical treatment if necessary		In contact with eyes: Immediately flush with plenty of water and see a doctor if irritating
	Contact with Skin: Wash with soap and water as a precaution	Inhaled: Remove to fresh air and gargle with plenty of water Consult a doctor in case of such symptoms as coughing	
Action in case of Emergency 	This product will not be a hazard as we do not store the product in his powder form		
Environmental Implications 	Do not allow to enter surface water or drains		
Storage, Disposal & Transport 	Storage A small supply <1kg is stored in outside storage cupboard	Disposal Dispose of waste in the container provided and return to the facilities team for recycling	Transport Single use units are provided as needed via the facilities team
	☒ Low A low-risk score means the substance poses minimal danger under normal working conditions and when proper controls (e.g., PPE, ventilation) are in place. Routine monitoring is sufficient, and there is no immediate concern for harm.	☐ Medium A medium-risk score indicates a moderate chance of harm. This suggests that additional precautions or stricter controls may be required to prevent exposure, such as improving handling procedures or enhancing protective measures.	☐ High A high-risk score means there is a significant likelihood of harm, either due to the nature of the substance or insufficient controls. Immediate action is required to eliminate or reduce exposure to an acceptable level, such as substituting the substance, upgrading safety measures, or improving training and supervision.
Overall Assessment of Risk of Current Use of the Substance 	Are the current controls effective?		Yes
	Does the MSDS suggest any controls that we don't have in place?		No
	Is air monitoring considered appropriate?		No
	Can the process be re-engineered?		No
	Have we considered the use of an alternative, less dangerous substance?		Yes
Assessment Completed by	Name: Aimee Henley	Role: Team Manager	Review Date: 21/07/2027

SAFETY DATA SHEET

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

1.1. Product identifier

Product name Magenta Developer for TASKalfa 352ci

Consumable name

Product form Mixture

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

Identified uses : The image formation of our electrophotographic equipments.
Other uses are not recommended.

1.3. Details of the supplier of the safety data sheet

Manufacturer KYOCERA Document Solutions Inc.

Address 1-2-28 Tamatsukuri, Chuo-ku, Osaka 540-8585, Japan

Supplier KYOCERA Document Solutions Europe B.V.

Address Bloemlaan 4, 2132 NP Hoofddorp, The Netherlands

Telephone number +31(0)20-6540000

E-mail msds@deu.kyocera.com

1.4. Emergency telephone number

: For safety questions, please contact each sale site during office hours.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

: Not classified as hazardous mixture.

2.2. Label elements

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

Not applicable.

2.3. Other hazards

Assessment of PBT/vPvB No data available.

See section 4 and 11 for information on health effects and symptoms. See section 9 for dust explosion information.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	Identifier CAS No.	Weight%
Ferrite (Ferrite including manganese)	66402-68-4	85-95 (as Mn: 15-20)
Polyester resin	Confidential	5-10

Information of Ingredients

- (1) Substance which present a health or environmental hazard within the meaning of CLP
: None.
- (2) Substance which are assigned Community workplace exposure limits
: None.
- (3) Substance which are PBT or vPvB in accordance with the criteria set out in Annex XIII of REACH
: None.
- (4) Substance which are included in the list established in accordance with Article 59(1) of REACH (SVHC)
: None.

See section 16 for the full text of the H statements declared above.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove from exposure to fresh air and gargle with plenty of water. Consult a doctor in case of such symptoms as coughing.
Skin	Wash with soap and water.
Contact	Flush with water immediately and see a doctor if irritating.
Eye	Rinse out the mouth. Drink one or two glasses of
Contact	water to dilute. Seek medical treatment if
Ingestion	necessary.

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

Potential health effects and symptoms

Inhalation	Prolonged inhalation of excessive dusts may cause lung damage. Use of this product as intended does not result in prolonged inhalation of excessive toner dusts.
Skin contact	Unlikely to cause skin irritation.
Eye contact	May cause transient eye irritation.
Ingestion	Use of this product as intended does not result in ingestion.

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

: No additional information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media Suitable

extinguishing media Unsuitable extinguishing media

Water spray, foam, powder, CO₂ or dry chemical. None specified.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Carbon dioxide. Carbon monoxide.

5.3. Advice for firefighters

Fire-fighting procedures

Pay attention not to blow away dust.

Drain water *off* around and decrease the atmosphere temperature to extinguish the fire.

Protective equipment for firefighters None specified.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

: Avoid inhalation, ingestion, eye and skin contact in case of accidental release. Avoid formation of dust. Provide adequate ventilation.

6.2. Environmental precautions

: Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Method for cleaning up : Gather the released powder not to blow away and wipe up with a wet cloth.

6.4. Reference to other sections

See section 13 for disposal information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

: Do not attempt to force open or destroy the toner container or unit. See installation guide of this product.

7.2. Conditions for safe storage, including any incompatibilities

Keep the toner container or unit tightly closed and store in a cool, dry and dark place keeping away from fire. Keep out of the reach of children.

7.3. Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

(Reference data)

US ACGIH Threshold Limit Values (TWA)

Particles: 10 mg/m (Inhalable particles), 3 mg/m (Respirable particles)

Manganese inorganic compounds (Ferrite component): 0.1 mg/rr1 (Inhalable fraction), 0.02 mg/rr1 (Respirable fraction) (as Mn)

US OSHA PEL (TWA)

Particles: 15 mg/m (Total dust), 5 mg/m

(Respirable fraction) Manganese compounds

(Ferrite component): 5 mgfr1 (Ceiling) (as Mn)

**EU Occupational exposure limits: Directive 2000/39/EC,
2006/15/EC and 2009/161/EU Not listed.**

8.2. Exposure controls

Appropriate engineering controls	Special ventilator is not required under normal intended use. Use in a well ventilated area.
Personal protective equipment	Respiratory protection, eye protection, hand protection, skin and body protection are not required under normal intended use. No additional information available.
Environmental exposure controls	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state	Solid.
Col or	(Fine powder)
Odor	Evaporation rate
Odor threshold	Flammability (solid, gas)
pH	Upper/lower flammability or explosive limits
Melting point	Vapour pressure Vapour density
Boiling point	Relative density Solubility(ies)
Flash point	Partition coefficient: n-octanol/water Auto- ignition temperature Decomposition temperature
	Viscosity
	Explosive properties Oxidising properties
	9.2. Other information

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Almost insoluble
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**Dust explosion
properties**

**Dust explosion is improbable under normal intended use.
Experimental explosiveness of toner is classified into the
same rank such kind of powder as flour, dry milk and resin
powder according to the pressure rising speed.**

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability and storage.

This product is stable under normal conditions of use

10.3. Possibility of hazardous reactions

Hazardous reactions will not occur.

- 10.4. **Conditions to avoid** None specified.
- 10.5. **Incompatible materials** None specified.
- 10.6. **Hazardous decomposition products**
: **Hazardous decomposition products are not to be produced.**

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Based on available data, the classification criteria listed below are not met. Acute toxicity

Oral (LD₅₀)	> 2000 mg/kg (rat) (Based on test result of similar product.) (Toner) > 2500 mg/kg (rat) (Based on test result of constituent materials.) (Carrier) No data available.
Dermal (LD₅₀)	(Toner) > 2000 mg/kg (rat) (Based on test result of constituent materials.) (Carrier)
Inhalation (LC₅₀	> 5.0 mg/l (rat)
(4hr)) Skin	(Based on test result of similar product.) (Toner)
corrosion/irritation	
Acute skin irritation	Non-irritant (rabbit) (Based on test result of similar product.) (Toner) Non-irritant (rabbit) (Based on test result of constituent materials.) (Carrier)
Serious eye damage/irritation	
Acute eye irritation	: Minimal irritant (rabbit) (Based on test result of similar product.) (Toner)
Respiratory or skin sensitisation	

Skin sensitisation	Non-sensitiser (mouse) (Based on test result of similar product.) (Toner) Non-sensitiser (guinea pig) (Based on test result of constituent materials.) (Carrier)
Germ cell mutagenicity	Ames Test is Negative. (Toner) Ames Test is Negative. (Based on test result of constituent materials.) (Carrier) No mutagen, according to MAK, TRGS905 and (EC) No 1272/2008 Annex VI.
Information of Ingredients	
Carcinogenicity	No carcinogen or potential carcinogen according to
Information of Ingredients	IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, MAK, California Proposition 65, TRGS 905 and (EC) No 1272/2008 Annex VI.

Reproductive toxicity

Information of Ingredients	No reproductive toxicant according to MAK, California Proposition 65, TRGS905 and (EC) No 1272/2008 Annex VI.
STOT-single exposure	No data available.
STOT-repeated exposure	No data available.
Aspiration hazard	No data available.
Chronic effects	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 the rats in the high concentration (16 mg/m) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animal in the middle (4 mg/m) exposure group. (*1)
Other information	But no pulmonary change was reported in the lowest (1 mg/m) exposure group, the most relevant level to potential human exposures. No data available.

SECTION 12: Ecological information

12.1. Toxicity	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	No data available.
12.6. Other adverse effects	No additional information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Do not attempt to incinerate the toner container or unit and the waste toner yourself. Dangerous sparks may cause burn.

Any disposal practice should be done under conditions which meet local, state and federal laws and regulations relating to waste (contact local or state environmental agency for specific rules).

SECTION 14: Transport information

14.1. UN number	None.
14.2. UN proper shipping name	None.
14.3. Transport hazard class(es)	None.

- 14.4. **Packing group** None.
- 14.5. Environmental hazards None.
- 14.6. **Special precautions for user** No additional information available.
- 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
: Not applicable.

SAFETY DATA SHEET

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations**

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer, Annex I and Annex II

: Not listed.

Regulation (EC) No 2019/1021 on persistent organic pollutants, Annex I as amended

: Not listed.

Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals, Annex I and Annex V as amended

: Not listed.

Regulation (EC) No 1907/2006, REACH Annex XVII as amended (Restrictions on use)

: Not listed.

Regulation (EC) No 1907/2006, REACH Annex XIV as amended (Authorisations)

: Not listed.

US regulations

All ingredients in this product comply with order under TSCA. Canada regulations

This product is not a WHMIS-controlled product, since we consider it as a Manufactured article.

15.2. Chemical safety assessment

: No data available.

SECTION 16: Other information

To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.

The contents and format of this SOS are in accordance with Regulation (EC) No 1907/2006, Annex II as amended by Regulation (EU) 2015/830 with respect to SDSs.

Revision information

Version : 01

Full text of H statements under sections 3.

Not applicable.

Abbreviations and B SVHC CAS ACGIH

acronyms PBT

vPv

OSH	
A	Persistent, Bioaccumulative
TW	and Toxic Very Persistent
A	and Very Bioaccumulative
PEL	Substances of Very High
UN	Concern Chemical Abstracts
IAR	Service
C	American Conference of Governmental Industrial Hygienists
EP	2016 TLVs and BEIs (Threshold Limit Values for
A	Chemical Substances and Physical Agents and
NT	Biological Exposure Indices)
P	Occupational Safety and Health Administration (29 CFR Part 1910 Subpart Z)
MA	Time Weighted Average
K	Permissible Exposure
	Limits United Nations
Proposition 65	International Agency for Research on Cancer
TRGS905	(IARC Monographs on the Evaluation of Carcinogenic Risks to Humans) Environmental Protection Agency (Integrated Risk Information System) (US) National Toxicology Program (Report on Carcinogens) (US) Maximale Arbeitsplatz-Konzentrationen (List of MAK and BAT Values 2011) (DFG: Deutsche Forschungsgemeinschaft) California, Safe Drinking Water and Toxic Enforcement Act of 1986 Technische Regeln für Gefahrstoffe (Deutschland)

STOT	Specific target organ toxicity
TSCA	Toxic Substances Control Act (US)
WHMIS	Workplace Hazardous Materials Information System (Canada)
REACH	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
CLP packaging of	Regulation (EC) No 1272/2008 on classification, labelling and substances and

mixtures Key literature references and sources
for data

(*1) 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)

(*2) IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans,
Vol.93

(*3) NIOSH CURRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and
Recommendation for Occupational Exposure to Titanium Dioxide DRAFT"