

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking Product identifier		
Product name	: Cyan Developer for TASKalfa 3050ci, 3550ci, 3051ci, 3551ci	
Consumable name	: -	
Relevant identified use	s of the substance or mixture and uses advised against	
Identified uses	: The image formation of our electrophotographic equipments.	
	Other uses are not recommended.	
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 America, Inc.	
Address	: 225 Sand Road, P.O. Box 40008, Fairfield, New Jersey 07004-0008, U.S.A.	
Telephone number	: +1(973)808-8444	

Emergency telephone number

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

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification according to OSHA HCS (29 CFR 1910.1200)

: Not classified as hazardous mixture.

Label elements

Labelling according to OSHA HCS (29 CFR 1910.1200)

: Not applicable.

Other hazards

Hazards not otherwise classified (HNOC) 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

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



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Information of Ingredients

Substance which present a health hazard within the meaning of OSHA HCS : Ferrite (Ferrite including manganese)

See section 8 for the information of occupational exposure limits. See section 11 for the information of carcinogens.

SECTION 4: First aid	measures	
Description of first aid n	neasures	
Inhalation	: Remove from exposure to fresh air and gargle with plenty of water.	
	Consult a doctor in case of such symptoms as coughing.	
Skin Contact	: Wash with soap and water.	
Eye Contact	: Flush with water immediately and see a doctor if irritating.	
Ingestion	: Rinse out the mouth. Drink one or two glasses of water to dilute.	
	Seek medical treatment if necessary.	
Most important symptor	ms and effects, both acute and delayed	
Potential health effects an	nd 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.	
Indication of any immediate medical attention and special treatment needed		
-	: No additional information available.	

SECTION 5: Firefighting measures		
Extinguishing media		
Suitable extinguishing media	: Water spray, foam, powder, CO ₂ or dry chemical.	
Unsuitable extinguishing media	: None specified.	
Special hazards arising from the substance or mixture		
Hazardous combustion products	: Carbon dioxide. Carbon monoxide.	
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.	



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SECTION 6: Accidental release measures

Personal precautions, pro	tective equipment and emergency procedures
	: Avoid inhalation, ingestion, eye and skin contact in case of accidental release.
	Avoid formation of dust. Provide adequate ventilation.
Environmental precaution	S
	: Do not allow to enter into surface water or drains.
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.
SECTION 7: Handling a	nd storage
Precautions for safe hand	ling
	: Do not attempt to force open or destroy the toner container or unit.

See installation guide of this product.

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.

SECTION 8: Exposure controls/personal protection Control parameters (Reference data)

US ACGIH TLV (TWA)

Particles: 10 mg/m³ (Inhalable particles), 3 mg/m³ (Respirable particles) Manganese inorganic compounds (Ferrite component): 0.1 mg/m³ (Inhalable fraction), 0.02 mg/m³ (Respirable fraction) (as Mn)

US OSHA PEL (TWA)

Particles: 15 mg/m³ (Total dust), 5 mg/m³ (Respirable fraction) Manganese compounds (Ferrite component): 5 mg/m³ (Ceiling) (as Mn)

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.



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SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance

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Physical state	: Solid.
	(Fine powder)
Color	: Cyan.
Odor	: Odorless.
Odor threshold	: No data available.
рН	: No data available.
Melting point	: No data available.
Initial boiling point and boiling range	: No data available.
Flash point	: No data available.
Evaporation rate	: No data available.
Flammability (solid, gas)	: No data available.
Upper/lower flammability or explosive	: No data available.
limits	
Vapour pressure	: No data available.
Vapour density	: No data available.
Relative density	: 3.5-5.0 g/cm ³
Solubility(ies)	: Almost insoluble in water.
Partition coefficient: n-octanol/water	: No data available.
Auto-ignition temperature	: No data available.
Decomposition temperature	: No data available.
Viscosity	: No data available.
Explosive properties	: No data available.
Oxidising properties	: No data available.
Other information	
Dust explosion properties : Dust ex	plosion is improbable under normal intended use.
Even evin	mental evaluativeness of tener is cleasified into the same rank such kind

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 reactivi	ty
Reactivity	: No data available.
Chemical stability	: This product is stable under normal conditions of use and storage.
Possibility of hazardous reactions	
	: Hazardous reactions will not occur.
Conditions to avoid	: None specified.
Incompatible materials	: None specified.
Hazardous decomposition products	
	: Hazardous decomposition products are not to be produced.



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SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity	
Oral (LD ₅₀)	 > 2000 mg/kg (rat) (Based on test result of similar product.) (Toner) > 2500 mg/kg (rat)
Dermal (LD ₅₀)	 (Based on test result of constituent materials.) (Carrier) No data available. (Toner) > 2000 mg/kg (rat) (Based on test result of constituent materials.) (Carrier)
Inhalation (LC_{50} (4hr))	 : > 5.0 mg/l (rat) (Based on test result of similar product.) (Toner)
Skin 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 sensitisati	
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)
Information of Ingredients Carcinogenicity	: No mutagen, according to MAK, TRGS905 and (EC) No 1272/2008 Annex VI.
Information of Ingredients	 No carcinogen or potential carcinogen according to IARC, Japan Association on Industrial Health, ACGIH, EPA, OSHA, NTP, MAK, California Proposition 65, TRGS 905 and (EC) No 1272/2008 Annex VI.



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Reproductive toxicity	
	No reproductive tovicent according to MAK, Colifernia Properties 65, TDCS005
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) But no pulmonary change was reported in the lowest (1 mg/m) exposure group, the most relevant level to potential human exposures.
Other information	: No data available.
SECTION 12: Ecological	information
SECTION 12: Ecological Ecotoxicity	: No data available.
Persistence and degradabil	
Bioaccumulative potential	: No data available.
Mobility in soil	: No data available.
Other adverse effects	: No additional information available.
SECTION 13: Disposal co	onsiderations
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 in	
UN number	: None.
UN proper shipping name	: None.
Transport hazard class(es)	: None.
Packing group	: None.
Environmental hazards	: None.
Special precautions for use	
Transport in bulk according	g to Annex II of MARPOL73/78 and the IBC Code
	: Not applicable.
SECTION 15: Regulatory	information

Safety, health and environmental regulations/legislation specific for the substance or mixture 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.

EU regulations

This product is not classified as hazardous mixture according to Regulation (EC) No 1272/2008 (CLP).

This product does not contain substances which present a health or environmental hazard within the meaning of CLP.



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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 SDS are in accordance with Appendix D of 29 CFR 1910.1200.

Revision information		Format change.
Version		03
Issue date	-	04/01/2012
Revision date		09/14/2016
Abbreviations and acronyms		
OSHA		Occupational Safety and Health Administration (29 CFR Part 1910 Subpart Z)
HCS		Hazard Communication Standard
CAS	:	Chemical Abstracts Service
ACGIH	:	American Conference of Governmental Industrial Hygienists
		2016 TLVs and BEIs (Threshold Limit Values for Chemical Substances and
		Physica Agents and Biological Exposure Indices)
TLV	:	Threshold Limit Values
PEL	:	Permissible Exposure Limits
TWA	:	Time Weighted Average
UN	:	United Nations
IARC	:	International Agency for Research on Cancer
		(IARC Monographs on the Evaluations of Carcinogenic Risks to Humans)
EPA	:	Environmental Protection Agency (Integrated Risk Information System) (US)
NTP	:	National Toxicology Program (Report on Carcinogens) (US)
MAK	:	Maximale Arbeitsplatz-Konzentrationen (List of MAK and BAT Values 2011)
		(DFG: Deutsche Forschungsgemeinschaft)
Proposition 65	:	California, Safe Drinking Water and Toxic Enforcement Act of 1986
TRGS905	:	Technische Regeln für Gefahrstoffe (Deutschland)
STOT	:	Specific target organ toxicity
TSCA	:	Toxic Substances Control Act (US)
WHMIS	:	Workplace Hazardous Materials Information System (Canada)
CLP	:	Regulation (EC) No 1272/2008 on classification, labelling and packaging of 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"