Product Name : XANTE IMPRESSIA BLACK PRINT CARTRIDGE 200-100323 SDS Number : 840812

Date Prepared: 08/10/2012 Date Modified: 08/01/2014 Date Printed: 07/17/2015



Safety Data Sheet

Section1 :Chemical Product and Company Identification

(a) Product identifier used on the label

Product Name : XANTE IMPRESSIA BLACK PRINT CARTRIDGE 200-100323 (Black toner)

(b) Other means of identification SDS Number : 840812

(c) Recommended use of the chemical and restrictions on use

General Use : The Image Formation of Printing Machine or Copier

(d) Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company Name: Ricoh Company, Ltd.

Department : Safety Engineering Department, Quality Management Division Address : 146-1 Nishisawada, Numazu-shi, Shizuoka-ken, 410-0007, Japan

(e) Emergency phone number.

Telephone : 055-920-1470, Japan

Number
Telefax Number: 055-920-1479, Japan
E-mail: msdsinfo@nts.ricoh.co.jp

Product Name: XANTE IMPRESSIA BLACK PRINT CARTRIDGE 200-100323 SDS Number: 840812 Date Prepared: 08/10/2012 Date Modified: 08/01 2014 Date Printed: 07/17/2015



Section2: Hazards Identification

Classification

EXPLOSIVES FLAMMABLE GASES Not Applicable FLAMMABLE AEROSOLS Not Applicable OXIDIZING GASES Not Applicable OXIDIZING GASES Not Applicable OXIDIZING GASES Not Applicable FLAMMABLE LIQUIDS Not Applicable FLAMMABLE SOLIDS SELF-REACTIVE SUBSTANCES AND MIXTURES PYROPHORIC SOLIDS SELF-REACTIVE SUBSTANCES AND MIXTURES PYROPHORIC SOLIDS SELF-REACTIVE SUBSTANCES AND MIXTURES SUBSTANCES AND MIXTURES, UPROPHORIC SOLIDS SELF-REATING SUBSTANCES AND Classification not possible SELF-REATING SUBSTANCES AND Classification not possible SUBSTANCES AND MIXTURES, UPROPHORIC SOLIDS OXIDIZING LIQUIDS OXIDIZING LIQUIDS OXIDIZING LIQUIDS OXIDIZING SOLIDS Classification not possible CORROSIVE TO METALS OXIDIZING SOLIDS Classification not possible OCORROSIVE TO METALS Classification not possible CORROSIVE TO METALS Classification not possible OCORROSIVE TO METALS Classification not possible CORROSIVE TO METALS CLASSIFICATION NOT CLASSIFICATION CLASSIFICATION ON CLASS	ssification		
FLAMMABLE AEROSOLS OXIDIZING GASES OXDIZING GASES OXDER PRESSURE Not Applicable FLAMMABLE LIQUIDS SELF-REACTIVE SUBSTANCES AND Not Applicable FLAMMABLE SOLIDS SELF-REACTIVE SUBSTANCES AND Not Applicable PYROPHORIC LIQUIDS PYROPHORIC LIQUIDS PYROPHORIC SOLIDS SELF-HEATING SUBSTANCES AND MIXTURES SUBSTANCES AND MIXTURES. WHICH ON CONTACT WITH WATER, EMIT FLAMMABLE GASES OXIDIZING SOLIDS O		EXPLOSIVES	Not Applicable
OXIDIZING GASES GASES UNDER PRESSURE FLAMMABLE LIQUIDS FLAMMABLE SOLIDS SELF-REACTIVE SUBSTANCES AND MIXTURES PHYSICAL HAZARD(S) PHOPHORIC SOLIDS SELF-HEATING SUBSTANCES AND MIXTURES SUBSTANCES AND MIXTURES WHICH ON CONTACT WITH WATER, EMIT FLAMMABLE GASES OXIDIZING SOLIDS Classification not possible SELF-HEATING SUBSTANCES AND MIXTURES SUBSTANCES AND MIXTURES, WHICH ON CONTACT WITH WATER, EMIT FLAMMABLE GASES OXIDIZING SOLIDS CREASING PROXIDES CREA		FLAMMABLE GASES	Not Applicable
GASES UNDER PRESSURE FLAMMABLE LOUIDS FLAMMABLE SOLIDS SELF-REACTIVE SUBSTANCES AND MXTURES PYROPHORIC LIQUIDS PYROPHORIC SOLIDS SELF-REACTIVE SUBSTANCES AND MXTURES PYROPHORIC SOLIDS SELF-REACTIVE SUBSTANCES AND MXTURES SUBSTANCES AND MIXTURES SUBSTANCES AND MIXTURES, WHICH ON CONTACT WITH WATER, EMIT FLAMMABLE GASES OXIDIZING SOLIDS OXIDIZING	PHYSICAL HAZARD(S)	FLAMMABLE AEROSOLS	Not Applicable
FLAMMABLE LIQUIDS FLAMMABLE SOLIDS SELF-REACTIVE SUBSTANCES AND MIXTURES Not Applicable MIXTURES Not Applicable MIXTURES Not Applicable MIXTURES Not Applicable MIXTURES PYROPHORIC LIQUIDS PYROPHORIC LIQUIDS PYROPHORIC SOLIDS SELF-HEATING SUBSTANCES AND MIXTURES SUBSTANCES AND MIXTURES, WHICH ON CONTACT WITH WATER, EMIT FLAMMABLE GASES OXIDIZING LIQUIDS OXIDIZING LIQUIDS OXIDIZING SOLIDS Classification not possible OXIDIZING SOLIDS CORROSIVE TO METALS CORROSIVE TO METALS ACUTE TOXICITY (DERMAL) ACUTE TOXICITY (INHALATION - QAS) ACUTE TOXICITY (INHALATION - WAPOUR) ACUTE TOXICITY (INHALATION - VAPOUR) ACUTE TOXICITY (INHALATION - VAPOUR) ACUTE TOXICITY (INHALATION - DUST AND MIST) SERIOUS EYE DAMAGE/EYE IRRITATION RESPIRATORY SENSITIZER Classification not possible CARROSION/IRRITATION Not Classified SERIOUS EYE DAMAGE/EYE IRRITATION RESPIRATORY SENSITIZER Classification not possible CARROSION/IRRITATION CARGINOGENICITY CARGINOGENICITY CARGINOGENICITY CARGINOGENICITY CARGINOGENICITY CARGINOGENICITY TOXICITY COLOWING SINGLE EXPOSURE ASPIRATION HZGENICITY CARSIFICATION OCLASSIFICATION not possible TARGET ORGAN SYSTEMIC TOXICITY FOLLOWING SINGLE EXPOSURE ASPIRATION HZARDS TO THE AQUATIC ENVIRONMENT CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT		OXIDIZING GASES	Not Applicable
FLAMMABLE LIQUIDS FLAMMABLE SOLIDS SELF-REACTIVE SUBSTANCES AND MIXTURES Not Applicable MIXTURES PYROPHORIC LIQUIDS PYROPHORIC LIQUIDS PYROPHORIC SOLIDS SELF-HEATING SUBSTANCES AND MIXTURES SUBSTANCES AND MIXTURES, WHICH ON CONTACT WITH WATER, EMIT FLAMMABLE GASES OXDIZING LIQUIDS OXIDIZING SOLIDS OXIDIZING SOL		GASES UNDER PRESSURE	Not Applicable
PHYSICAL HAZARD(S) PHYSICAL HAZARDS TO HAZARDS TO CLASSIFIcation not possible PHYSICAL HAZARDS TO CLASSIFICATION not possible ACUTE TOXICITY(CRAL) ACUTE TOXICITY(CRAL) ACUTE TOXICITY(PHYSICAL) ACUTE TOXICITY (INHALATION - GAS) ACUTE TOXICITY (INHALATION - DUST AND MIST) SKIN CORROSION/IRRITATION SERIOUS EYE DAMAGE/EYE Classification not possible CARCINOGENICITY CLASSIFICATION to possible CLASSIFICATION to possible CLASSIFICATION to possible CLASSIFICATION not possible CHONIC HAZARDS TO THE AQUATIC ENVIRONMENT CHERONIC HAZARDS TO THE AQUATIC ENVIRONMENT CHEROMIC HAZARDS TO CHACARDS TO CHACARDS TO CHACHURAL HAZARD TO CHACHURAL HAZARD TO CHACHURAL HAZAR		FLAMMABLE LIQUIDS	* *
PHYSICAL HAZARD(S) PHYOPHORIC LIQUIDS PYROPHORIC SOLIDS SELF-HEATING SUBSTANCES AND MIXTURES SUBSTANCES AND MIXTURES SUBSTANCES AND MIXTURES SUBSTANCES AND MIXTURES, WHICH ON CONTACT WITH WATER, EMIT FLAMMABLE GASES OXDIZING SOLIDS OXIDIZING S		FLAMMABLE SOLIDS	
PYROPHORIC SOLIDS SELF-HEATING SUBSTANCES AND MIXTURES SUBSTANCES AND MIXTURES, WHICH ON CONTACT WITH WATER, EMIT FLAMMABLE GASES OXIDIZING LIQUIDS OXIDIZING SOLIDS ORGANIC PEROXIDES CORROSIVE TO METALS CORROSIVE TO METALS ACUTE TOXICITY (ORAL) ACUTE TOXICITY (INHALATION - VAPOUR) ACUTE TOXICITY (INHALATION - UNDER AND MIST) SERIOLS EYE DAMAGE/EYE IRRITATION HEALTH HAZARD(S) HEALTH HAZARD(S) PYROPHORIC SOLIDS Classification not possible OXIDIZING SOLIDS ORGANIC PEROXIDES OXIDIZING SOLIDS OXIDIZING		SELF-REACTIVE SUBSTANCES AND	
PYROPHORIC SOLIDS SELF-HEATING SUBSTANCES AND MIXTURES SUBSTANCES AND MIXTURES. WHICH ON CONTACT WITH WATER, EMIT FLAMMABLE GASES OXIDIZING LIQUIDS OXIDIZING SOLIDS ORGANIC PEROXIDES CORROSIVE TO METALS CORROSIVE TO METALS ACUTE TOXICITY (ORAL) ACUTE TOXICITY (INHALATION - VAPOUR) ACUTE TOXICITY (INHALATION - UDST AND MIST) SERIOUS EYE DAMAGE/EYE IRRITATION HEALTH HAZARD(S) HEALTH HAZARD(S) PYROPHORIC SOLIDS Classification not possible OXIDIZING SOLIDS ORGANIC PEROXIDES OXIDIZING SOLIDS OXIDIZING SO		PYROPHORIC LIQUIDS	Not Applicable
SELF-HEATING SUBSTANCES AND MIXTURES, SUBSTANCES AND MIXTURES. SUBSTANCES AND MIXTURES, WHICH ON CONTACT WITH WATER, EMIT FLAMMABLE GASES OXIDIZING LIQUIDS OXIDIZING SOLIDS OXIDIZING SOLIDS OXROXIPE TO METALS CORROSIVE TO METALS CORROSIVE TO METALS CORROSIVE TO METALS COLASSIFICATION not possible CORROSIVE TO METALS CLassification not possible ACUTE TOXICITY(ORAL) ACUTE TOXICITY (INHALATION - GAS) ACUTE TOXICITY (INHALATION - GAS) ACUTE TOXICITY (INHALATION - VAPOUR) ACUTE TOXICITY (INHALATION - DUST AND MIST) SKIN CORROSION/IRRITATION SERIOUS EYE DAMAGE/EYE IRRITATION RESPIRATORY SENSITIZER Classification not possible SKIN SENSITIZER Not Classified GERM CELL MUTAGENICITY CLassification not possible CARCINOGENICITY CLassification not possible EXPOSURE TARGET ORGAN SYSTEMIC TOXICITY FOLLOWING SINGLE EXPOSURE ASPIRATION HAZARD CLIASSIfication not possible CACUTE HAZARDS TO THE AQUATIC ENVIRONMENT CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT CLASSIfication not possible			
WHICH ON CONTACT WITH WATER, EMIT FLAMMABLE GASES OXIDIZING LIQUIDS Not Applicable OXIDIZING SOLIDS ORGANIC PEROXIDES Classification not possible CORROSIVE TO METALS ACUTE TOXICITY(ORAL) ACUTE TOXICITY(ORAL) ACUTE TOXICITY(DERMAL) ACUTE TOXICITY (INHALATION - GAS) ACUTE TOXICITY (INHALATION - VAPOUR) ACUTE TOXICITY (INHALATION - DUST AND MIST) SKIN COPROSION/IRRITATION SERIOUS EYE DAMAGE/EYE IRRITATION SERIOUS EYE DAMAGE/EYE CRESPIRATORY SENSITIZER SKIN SENSITIZER Not Classification not possible CARCINOGENICITY CAR		SELF-HEATING SUBSTANCES AND	'
OXIDIZING SOLIDS ORGANIC PEROXIDES CORROSIVE TO METALS COLLOSIFICATION NOT Classification not possible CORROSIVE TO METALS COLLOSIFICATION COLLOSIFICATION COLLOSIFICATION COLLOSIVE COLLOSIFICATION COLLOSITICATION COLLOSITICATION COLLOSITICATION COLLOSITICATION COLLOSITICATION COLLOSITICATI		WHICH ON CONTACT WITH WATER, EMIT FLAMMABLE GASES	·
ORGANIC PEROXIDES CORROSIVE TO METALS Classification not possible ACUTE TOXICITY(ORAL) ACUTE TOXICITY(DERMAL) ACUTE TOXICITY (INHALATION - GAS) ACUTE TOXICITY (INHALATION - VAPOUR) ACUTE TOXICITY (INHALATION - DUST AND MIST) SKIN CORROSION/IRRITATION SERIOUS EYE DAMAGE/EYE IJRRITATION RESPIRATORY SENSITIZER GERM CELL MUTAGENICITY CARCINOGENICITY COLassification not possible TARGET ORGAN SYSTEMIC TOXIC TO REPRODUCTION CLASSIFICATION not possible TARGET ORGAN SYSTEMIC TOXICITY FOLLOWING SINGLE EXPOSURE TARGET ORGAN SYSTEMIC TOXICITY FOLLOWING REPEAT EXPOSURE ASPIRATION HAZARD CLassification not possible CIASSIFIcation not possible CLASSIFICATION not possible CLASSIFICATIO			Not Applicable
CORROSIVE TO METALS ACUTE TOXICITY(ORAL) ACUTE TOXICITY(DERMAL) ACUTE TOXICITY (INHALATION - GAS) ACUTE TOXICITY (INHALATION - VAPOUR) ACUTE TOXICITY (INHALATION - VAPOUR) ACUTE TOXICITY (INHALATION - VAPOUR) ACUTE TOXICITY (INHALATION - DUST AND MIST) SKIN CORROSION/IRRITATION SERIOUS EYE DAMAGE/EYE IRRITATION HEALTH HAZARD(S) RESPIRATORY SENSITIZER Classification not possible SKIN SENSITIZER Not Classified GERM CELL MUTAGENICITY CARCINOGENICITY CARCINOGENICITY CARCINOGENICITY TOXIC TO REPRODUCTION TARGET ORGAN SYSTEMIC TOXIC TO REPRODUCTION TARGET ORGAN SYSTEMIC TOXICTY FOLLOWING SINGLE EXPOSURE TARGET ORGAN SYSTEMIC TOXICTY FOLLOWING REPEAT EXPOSURE ASPIRATION HAZARD Classification not possible CHONIC HAZARDS TO THE AQUATIC ENVIRONMENT CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT Classification not possible		OXIDIZING SOLIDS	Classification not possible
ACUTE TOXICITY(DERMAL) ACUTE TOXICITY (INHALATION - GAS) ACUTE TOXICITY (INHALATION - VAPOUR) ACUTE TOXICITY (INHALATION - VAPOUR) ACUTE TOXICITY (INHALATION - VAPOUR) ACUTE TOXICITY (INHALATION - DUST AND MIST) SKIN CORROSION/IRRITATION SERIOUS EYE DAMAGE/EYE IRRITATION RESPIRATORY SENSITIZER Classification not possible SKIN SENSITIZER Not Classified GERM CELL MUTAGENICITY CARCINOGENICITY CARCINOGENICITY CARCINOGENICITY CARCINOGENICITY TOXIC TO REPRODUCTION TARGET ORGAN SYSTEMIC TOXICITY FOLLOWING SINGLE EXPOSURE TARGET ORGAN SYSTEMIC TOXICITY FOLLOWING REPEAT EXPOSURE TARGET ORGAN SYSTEMIC TOXICITY FOLLOWING REPEAT EXPOSURE ASPIRATION HAZARD Classification not possible CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT Classification not possible		ORGANIC PEROXIDES	Classification not possible
ACUTE TOXICITY(DERMAL) ACUTE TOXICITY (INHALATION - GAS) ACUTE TOXICITY (INHALATION - VAPOUR) ACUTE TOXICITY (INHALATION - VAPOUR) ACUTE TOXICITY (INHALATION - DUST AND MIST) SKIN CORROSION/IRRITATION SERIOUS EYE DAMAGE/EYE IRRITATION RESPIRATORY SENSITIZER Classification not possible SKIN SENSITIZER GERM CELL MUTAGENICITY Classification not possible CARCINOGENICITY Classification not possible CARCINOGENICITY Classification not possible TARGET ORGAN SYSTEMIC TOXICITY FOLLOWING SINGLE EXPOSURE TARGET ORGAN SYSTEMIC TOXICITY FOLLOWING REPEAT EXPOSURE ASPIRATION HAZARD Classification not possible CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT Classification not possible		CORROSIVE TO METALS	Classification not possible
ACUTE TOXICITY (INHALATION - GAS) ACUTE TOXICITY (INHALATION - VAPOUR) ACUTE TOXICITY (INHALATION - VAPOUR) ACUTE TOXICITY (INHALATION - DUST AND MIST) SKIN CORROSION/IRRITATION SERIOUS EYE DAMAGE/EYE IRRITATION RESPIRATORY SENSITIZER Classification not possible RESPIRATORY SENSITIZER ORACINOGENICITY CARCINOGENICITY CARCINOGENICITY COASSIFICATION CO	HEALTH HAZARD(S)	ACUTE TOXICITY(ORAL)	Not Classified
(INHALATION - GAS) ACUTE TOXICITY (INHALATION - VAPOUR) ACUTE TOXICITY (INHALATION - DUST AND MIST) SKIN CORROSION/IRRITATION SERIOUS EYE DAMAGE/EYE IRRITATION RESPIRATORY SENSITIZER Classification not possible SKIN SENSITIZER Not Classified GERM CELL MUTAGENICITY CARCINOGENICITY CARCINOGENICITY CARCINOGENICITY CARCINOGENICITY CARGINOSION TARGET ORGAN SYSTEMIC TOXICITY FOLLOWING SINGLE EXPOSURE TARGET ORGAN SYSTEMIC TOXICITY FOLLOWING REPEAT EXPOSURE ASPIRATION HAZARD CLassification not possible CLASSIFICATION NOT CLASSIFICATION CONTROL HAZARDS TO THE AQUATIC ENVIRONMENT CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT CLASSIFICATION not possible CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT CLASSIFICATION not possible		ACUTE TOXICITY(DERMAL)	Classification not possible
(INHALATION - VAPOUR) ACUTE TOXICITY (INHALATION - DUST AND MIST) SKIN CORROSION/IRRITATION SERIOUS EYE DAMAGE/EYE IRRITATION RESPIRATORY SENSITIZER SKIN SENSITIZER GERM CELL MUTAGENICITY CARCINOGENICITY CARCINOGENICITY CARCINOGENICITY CARCINOGENICITY CARCINOGENICITY TOXIC TO REPRODUCTION TARGET ORGAN SYSTEMIC TOXICITY FOLLOWING SINGLE EXPOSURE TARGET ORGAN SYSTEMIC TOXICITY FOLLOWING REPEAT EXPOSURE ASPIRATION HAZARD CIassification not possible Classification not possible			Not Applicable
Classification not possible		(INHALATION - VAPOUR)	Not Applicable
HEALTH HAZARD(S) RESPIRATORY SENSITIZER Classification not possible SKIN SENSITIZER Not Classified GERM CELL MUTAGENICITY CARCINOGENICITY CARCINOGENICITY CARCINOGENICITY CARCINOGENICITY CIassification not possible TOXIC TO REPRODUCTION Classification not possible TARGET ORGAN SYSTEMIC TOXICITY FOLLOWING SINGLE EXPOSURE TARGET ORGAN SYSTEMIC TOXICITY FOLLOWING REPEAT EXPOSURE ASPIRATION HAZARD Classification not possible CLASSIFICATION NOT		(INHALATION - DUST AND MIST)	Classification not possible
IRRITATION Classification not possible		-	Not Classified
SKIN SENSITIZER GERM CELL MUTAGENICITY Classification not possible CARCINOGENICITY Classification not possible TOXIC TO REPRODUCTION TARGET ORGAN SYSTEMIC TOXICITY FOLLOWING SINGLE EXPOSURE TARGET ORGAN SYSTEMIC TOXICITY FOLLOWING REPEAT EXPOSURE ASPIRATION HAZARD Classification not possible CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT Classification not possible Classification not possible		IRRITATION	·
GERM CELL MUTAGENICITY CARCINOGENICITY CARCINOGENICITY CIassification not possible TOXIC TO REPRODUCTION Classification not possible TARGET ORGAN SYSTEMIC TOXICITY FOLLOWING SINGLE EXPOSURE TARGET ORGAN SYSTEMIC TOXICITY FOLLOWING REPEAT EXPOSURE ASPIRATION HAZARD Classification not possible EXPOSURE CIassification not possible Classification not possible Classification not possible CIassification not possible CIASSIFICATION NOT CLASSIFICATION NOT CLASSIFICATION NOT POSSIBLE CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT CIASSIFICATION NOT POSSIBLE CIASTICATION NOT POSSIBLE CIASSIFICATION NOT POSSIBLE CIASTICATION NOT POSSIBLE		RESPIRATORY SENSITIZER	Classification not possible
CARCINOGENICITY Classification not possible TOXIC TO REPRODUCTION TARGET ORGAN SYSTEMIC TOXICITY FOLLOWING SINGLE EXPOSURE TARGET ORGAN SYSTEMIC TOXICITY FOLLOWING REPEAT EXPOSURE ASPIRATION HAZARD Classification not possible CHAZARDS TO THE AQUATIC ENVIRONMENT CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT Classification not possible Classification not possible		SKIN SENSITIZER	Not Classified
TOXIC TO REPRODUCTION TARGET ORGAN SYSTEMIC TOXICITY FOLLOWING SINGLE EXPOSURE TARGET ORGAN SYSTEMIC TOXICITY FOLLOWING SINGLE EXPOSURE TARGET ORGAN SYSTEMIC TOXICITY FOLLOWING REPEAT EXPOSURE ASPIRATION HAZARD Classification not possible ENVIRONMENTSL HAZARDS TO THE AQUATIC ENVIRONMENT CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT Classification not possible		GERM CELL MUTAGENICITY	Classification not possible
TARGET ORGAN SYSTEMIC TOXICITY FOLLOWING SINGLE EXPOSURE TARGET ORGAN SYSTEMIC TOXICITY FOLLOWING REPEAT EXPOSURE ASPIRATION HAZARD Classification not possible ENVIRONMENTSL HAZARD(S) Classification not possible CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT Classification not possible		CARCINOGENICITY	Classification not possible
TOXICITY FOLLOWING SINGLE EXPOSURE TARGET ORGAN SYSTEMIC TOXICITY FOLLOWING REPEAT EXPOSURE ASPIRATION HAZARD Classification not possible ENVIRONMENTSL HAZARDS TO THE AQUATIC ENVIRONMENT CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT Classification not possible Classification not possible Classification not possible Classification not possible		TOXIC TO REPRODUCTION	Classification not possible
TOXICITY FOLLOWING REPEAT Classification not possible EXPOSURE ASPIRATION HAZARD Classification not possible CHRONIC HAZARDS TO CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT Classification not possible		TOXICITY FOLLOWING SINGLE	Classification not possible
ENVIRONMENTSL HAZARDS TO THE AQUATIC ENVIRONMENT CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT Classification not possible		TOXICITY FOLLOWING REPEAT	Classification not possible
ENVIRONMENTSL HAZARD(S) THE AQUATIC ENVIRONMENT CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT Classification not possible Classification not possible			Classification not possible
HAZARD(S) CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT Classification not possible		THE AQUATIC ENVIRONMENT	Classification not possible
HAZARDOUS TO THE OZONE LAYER Classification not possible		THE AQUATIC ENVIRONMENT	Classification not possible
		HAZARDOUS TO THE OZONE LAYER	Classification not possible

 $\label{eq:product_Name} Product \ Name: XANTE \ \underline{IMPRESSIA BLACK PRINT CARTRIDGE 200-100323} \ SDS \ Number: 840812 \\ Date \ Prepared: 08/10/2012 \ Date \ Modified: 08/01 \ 2014 \ Date \ Printed: 07/17/2015 \\$



Label element

Pictogram:	
Signal word(s):	not applicable
Hazard statement(s):	not applicable
Precautionary statement(s)	not applicable
【Prevention】	
【Response】	not applicable
(Storage)	not applicable
[Disposal]	not applicable

Specific Hazards

Dust explosion (like most finely grained organic powders)

 $\begin{array}{l} \textbf{Product Name}: \textbf{XANTE IMPRESSIA BLACK PRINT CARTRIDGE 200-100323} & \textbf{SDS Number}: 840812 \\ \textbf{Date Prepared}: 08/10/2012 \ \textbf{Date Modified}: 08/01/2014 & \textbf{Date Printed}: 07/17/2015 \\ \end{array}$



Section3: Composition, Information on Ingredients

Ingredients CAS No./Chemical name	Contents (%)
Confidential	50-90
Polyester Resin	
Confidential	<10
Wax	
1333-86-4	<10
Carbon Black	
7631-86-9	<10
Silica	
13463-67-7	0.1-1
Titan Oxide	

Product Name: XANTE IMPRESSIA BLACK PRINT CARTRIDGE 200-100323 SDS Number: 840812

Date Prepared: 08/10/2012 Date Modified: 08/01/2014 Date Printed: 07/17/2015



Section4: First Aid Measures

(a) Necessary measures

Inhalation:

Remove from exposure into fresh air and rinse mouth with water. Seek medical advice.

Skin Contact:

Wash thoroughly with soapy water.

Eye Contact:

Flush with a large amount of water until particles are removed. Seek medical advice.

Ingestion:

Drink several glasses of water to dilute ingested toner. Seek medical advice.

(b) Most important symptoms/effects, acute and delayed.

Not available

(c) Indication of immediate medical attention and special treatment needed.

Immediate Medical Attention:

Immediate medical attention is not required.

Section5: Fire Fighting Measures

(a) Suitable (and unsuitable) extinguishing media.

Extinguishing Media to Avoid:

Not applicable.

(b) Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products).

Specific Hazards:

Can form explosive dust-air mixtures when finely dispersed in air.

(c) Special protective equipment and precautions for fire-fighters.

Fire-Fighting Instructions / Specific Method:

No special fire protecting method is required. Sprinkling or fire extinguishers can be used.

Protection of Firefighters:

Wear gloves, glasses, a mask if necessary.

Section6: Accidental Release Measures

(a) Personal precautions, protective equipment, and emergency procedures.

Personal Precautions:

Do not breathe in dust.

Environment Precautions:

Do not flush into sewers or watercourses.

(b) Methods and materials for containment and cleaning up.

Methods for Cleaning Up:

Fine powder may form explosive dust-air mixture. Confirm there is no source of fire and if there is a source, remove it. Sweep up spilled powder slowly and clean reminder with wet cloth. If a vacuum cleaner is used, a dust explosion-proof type must be chosen.

Section7: Handling and Storage

(a) Precautions for safe handling.

Handling:

Technical Measures/Precautions

Not applicable

Safe Handling Advice

Do not handle in areas where there is wind or draught, this may cause dust to get into eyes.

Avoid breathing in dust.

(b) Conditions for safe storage, including any incompatibilities.

Storage:

Technical Measures

Not applicable

Storage Conditions

Keep out of reach of children.

Store in dry, well-ventilated area, to maintain quality the temperature should not exceed 35degrees centigrade for a long time. Avoid direct sunlight.

Packaging material

Not applicable

Specific Use(s):

Image formation in printing machines or copiers.

Product Name : XANTE IMPRESSIA BLACK PRINT CARTRIDGE 200-100323 SDS Number : 840812

Date Prepared: 08/10/2012 Date Modified: 08/01/2014 Date Printed: 07/17/2015



Section8 : Exposure Controls/Personal Protection

(a) OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH)

Threshold Limit Value (TLV), and any other exposure limit

Control Parameters

Exposure Limit Value (I)

USA OSHA PEL (TWA): 15mg/m3 (Total dust) 5.0mg/m3 (Respirable fraction) : 10mg/m3 (Inhalable fraction) ACGIH TLV (TWA) 3.0mg/m3 (Respirable fraction) 1.5mg/m3 (Respirable fraction) DFG MAK : 4.0mg/m3 (Total dust)

Personal Protection

(b) Appropriate engineering controls.

Technical measures:

Use adequate ventilation. None required with intended use.

(c) Individual protection measures, such as personal protective equipment.

Respiratory Protections (Specify Type)

None required in normal use. If the limit of exposure concentration is exceeded, use authorised respirator.

Eye Protection

Put on goggles if necessary.

Protective Gloves

Use vinyl or rubber gloves if necessary.

Protective Clothing or Equipment

Wear chemical-resistant apron or other impervious clothing if necessary.

Hygiene Measures

Wash hands after handling.

Section9: Physical and Chemical Properties

(a)Appearance (physical state, color, etc.)

Physical state : Solid Form Powder Colour **Black**

(b)Odor : Slightly plastic odor (c)Odor threshold : Not available Hq(b) : Not applicable

(e)Melting point/freezing point : (Softening point) Approx.110

(degrees centigrade)

(f)Initial boiling point and boiling range : Not applicable

(g)Flash point : Not applicable

(h)Evaporation Rate (Butyl Acetate = 1): Not applicable

(i)Flammability (solid, gas) : Not flammable

(i)Upper/lower flammability or explosive limits : Upper Not available Lower Not available

(k)Vapor Pressure (Pa) : Not applicable (I)Vapor Density (AIR=1) : Not applicable (m)Relative density : Approx.1.2

(n)Solubility(ies)

Water Solubility (g/L) Insoluble Chloroform Solubility (g/L) Slightly soluble (o)Partition coefficient: n-octanol/water : Not available

(p)Auto-ignition temperature : Not available

(g)Decomposition temperature (degrees centigrade): Not available

(r)Viscosity (Pa·s) : Not applicable

Product Name: XANTE IMPRESSIA BLACK PRINT CARTRIDGE 200-100323 SDS Number: 840812

Date Prepared: 08/10/2012 Date Modified: 08/01/2014 Date Printed: 07/17/2015



Section 10: Stability and Reactivity

(a)Reactivity

Hazardous Reaction:

Dust explosion, like most finely grained organic powders.

(b)Chemical stability:

Stable

(c)Possibility of hazardous reactions :

Not available

(d)Condition to Avoid:

Not applicable in normal use.

(e)Incompatible materials :

Not applicable in normal use.

(f)Hazardous decomposition products:

Decomposition products will not occur.

Section11: Toxicological Information

(a)Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)

ingestion, skin, inhalation, eye contact

(b) Symptoms related to the physical, chemical and toxicological characteristics

Not available

(c)Delayed and immediate effects and also chronic effects from short- and long-term exposure

Not available

Acute Toxicity

Acute Oral Toxicity (LD50):

5000 or over [mg/kg] (Rat) (Based on other product test results of similar ingredients.)

Acute Dermal Toxicity:

Not available Acute Inhalation Toxicity:

Not available

Local effects

Acute Skin Irritation(PII):

1.0 or below (Rabbit) (Based on other product test results of similar ingredients.)

Acute Eye Irritation:

Non-irritant (Based on other product test results of similar ingredients.)

Sensitization

Acute Allergenic Effects:

Non-skinsensitive (Marmot) (Based on other product test results of similar ingredients.)

Mutagenicity : Negative (Ames test)

Reproduction Toxicity : Does not contain substances listed as hazardous to reproductive health.

Teratogenic : Not available

(d)Numerical measures of toxicity (such as acute toxicity estimates)

Not available

(e)Whether the hazardous chemical is listed in the National Toxicology Program (NTP)

Report on Carcinogens (latest edition) or has been found to be a potential carcinogen

in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA.

Carbon black and titanium dioxide contained in this product are classified to Group 2B of IARC as the result of inhalation test in use of rat.

But oral/skin test does not show carcinogenicity.

The toner containing carbon black did not show carcinogenicity in chronic inhalation exposure test in use of rat. In the animal experiment with very high concentration of titanium dioxide (excessive burden of rat's lungs clearance mechanism (overload phenomenon)), the rat alone showed lung tumor. Under a normal use practice, the concentration should be far lower than the above; and it is assumed that there is no such use.

Also, relation between respiratory disease and work exposure of titanium dioxide is not observed with epidemiological survey.

Section12: Ecological Information

Mobility : No data are available on any adverse effects on the environment.

Persistence/Degradability: Not available
Bioaccumulation: Not available

Ecotoxicity

Acute Toxicity for Fish (LC50) : Not classified as toxic (EU Directive 1999/45/EC)mg/l/96hr
Acute Toxicity for Daphnia (EC50) : Not classified as toxic (EU Directive 1999/45/EC)mg/l/48hr
Algae Inhibition Test (IC50) : Not classified as toxic (EU Directive 1999/45/EC)mg/l/72hr

Product Name: XANTE IMPRESSIA BLACK PRINT CARTRIDGE 200-100323 SDS Number: 840812 Date Prepared: 08/10/2012 Date Modified: 08/01/2014 Date Printed: 07/17/2015



Section13: Disposal Consideration

General information:

Dispose of waste and residues in accordance with local authority requirements.

Disposal methods:

Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. Confirm disposal procedures with local regulations.

Precautions

Do not throw the toner cartridge or toner into an open flame. Hot toner may scatter and cause burns or other damage.

Section14: Transport Information

International Regulations

Land Transport

RID/ADR : Not applicable
DOT 49 CFR : Not applicable
ADNR : Not applicable

Sea Transport

IMDG Code : Not applicable

Air Transport

ICAO-TI/IATA-DGR : Not applicable UN Number : Not applicable Class : Not applicable

Specific Precautionary Transport Measures and Conditions

Avoid direct sunlight in quality.

Section15: Regulatory Information

Regulations

US Information

Information on the label: Not required TSCA (Toxic Substances Control Act):

This toner complies with all applicable rules and regulations under TSCA.

SARA (Superfund Amendments and Reauthorization Act) Title III

313 Reportable Ingredients : Not regulated California Proposition 65 : Not regulated

Canada Information

WHMIS Controlled product: Not a controlled product

EU Information

Information on the label (CLP (EC)No.1272/2008)

Symbol & Indication: Not required
Hazard Statement: Not required
Precautionary Statement: Not required

Special Precautions under CLP (EC)No.1272/2008 Annex II: Not required

This product complies with applicable rules and regulations under (EC)No.1907/2006 Annex XVII

Product Name : XANTE IMPRESSIA BLACK PRINT CARTRIDGE 200-100323 SDS Number : 840812

Date Prepared: 08/10/2012 Date Modified: Date Printed: 07/17/2015



Section16: Other Information

Explanation of Hazardous Materials Identification System [HMIS]& National Fire Protection Association [NFPA] Hazard Rating Systems:

Both the HMIS and NFPA systems use number from "0" to "4" to show the degree of hazard in an uncontrolled situation:

0=Minimum Hazard 1=Slight Hazard 2=Moderate Hazard 3=Serious Hazard 4=Severe Hazard Colors may also be used in both systems:

Blue=Health Hazard Red=Fire Hazard Yellow=Reactivity Hazard White=Indicate a special hazard HMIS will specify any Personal Protective Equipment regired [PPE],

NFPA will specify OX(oxidizer), Acid(acid), ALK(Alkali), COR(Corrosive), W(use no water), xx(Radioactive).

Literature References : ANSI Z400.1-1993

ISO 11014-1

Commission Directive 91/155/EEC

IARC (1996) "IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol.65, Printing Process and Printing Inks, Carbon Black and Some Nitro Compounds", Lyon, pp149–261 H.Muhle, B.Bellman, O.Creutzenberg, C.Dasenbrock, H.Emst, R.Kilpper, J.C.MacKenzie, P.Morrow, U.Mohr, S.Takenaka and R.Mermelstein(1991) "Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats" Fundamental and Applied Toxicology 17,pp280–299

IARC (2008) "IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol.93" NIOSH CURRENT INTELLIGENCE BULLETIN "Evaluation of Health Hazard and Recommendation for Occupational Exposure to Titanium Dioxide DRAFT"

ACGIH-TLV : Threshold Limit Values for Chemical Substances and Physical Agents and

Biological Exposure Indices

OSHA Z-Tables : US Department of Labor, 29CFR Part 1910, Tables Z-1, Z-2, and Z-3 NTP (USA) : US Department of Health and Human Services National Toxicology Program

Annual Report on Carcinogens

DFG-MAK(GER): DFG List of MAK and BAT Value

 Symbol (EC)
 : Regulation (EC)No.1272/2008

 91/155/ EEC
 : EU Directive 91/155/ EEC

 1999/45/EC
 : EU Directive 1999/45/EC

CLP (EC)No.1272/2008 : Regulation (EC)No.1272/2008 of the European Parliamant and of the Council

of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directive 67/548/EEC and 1999/45/EC,

and amending Regulation (EC)No. 1907/2006

EC 304/2003 : Regulation (EC) No 304/2003 of the European Parliament and of the Council of

28 January 2003 concerning the export and import of dangerous chemicals

WHMIS Controlled product: Canada Workplace Hazardous Information System

OELs-TWA (Australia) : Guidance Note on the Interpretation of Exposure Standards for Atmospheric

Contaminants in the Occupational Environment [NOHSC: 3008 (1995)]

Abbreviations:

OSHA PEL PEL (Permissible Exposure Limit) under Occupational Safety and Health Act

ACGIH-TLV TLV (Threshold Limit Values) under American Conference of Governmental Industrial

Hygienists

REACH EC)No.1907/2006:Council Regulation concerning the Registration, Evaluation, Authorization

and Restriction of Chemicals

SVHC Substances of Very High Concern ECHA The European Chemicals Agency

DFG-MAK
RoHS
MAK (Maximale Arbeitsplatz Konzentrationen) by Deutsche Forschungs Gemeinschaft
Restriction of the use of certain Hazardous Substances in Electrical and Electronic

Equipment

TWA Time Weighted Average

IARC International Agency for Research on Cancer

NTP National Toxicology Program

WHMIS Workplace Hazardous Information System

NOHSC National Occupational Health and Safety Commission Act 1985

Disclaimer(S)

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of RICOH COMPANY, LTD.

It relates only to the specific material designated herein, and does not relate to use in combination with any other material or process.

RICOH COMPANY, LTD assumes no legal responsibility for use or reliance upon this information.