

MATERIAL SAFETY DATA SHEET

SECTION 1IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE
COMPANY/UNDERTAKINGProduct Name:Canon IPQ-1 Yellow TonerProduct Code:0400B / F42-6831Manufacturer:Canon Inc.,30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo, Japan, Ph#03-3758-2111.Supplier:Canon USA Inc., One Canon Plaza, Lake Success, NY, 11042, USAPhone #:1-800-OK-CANON24Hr. Emergency CHEMTREC# 1-800-424-9300

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

< Ingredient(s) > Chemical Name / Generic Name	CAS # / EC #	Weight %	EU Symbol/ R-Phrase	USA OSHA PEL	ACGIH TLV	EU ILV	DFG MAK
Polyester resin	Confidential	80-90	None / None	Not established	Not established	Not established	Not established
Pigment	Confidential	5-10	None / None	Not established	Not established	Not established	Not established
Amorphous silica	7631-86-9/ 231-545-4	1-2	None / None	20 mppcf, 80(mg/m ³)/%SiO ₂	Not established	Not established	4 mg/m ³ (Inhalable fraction)

CAS#

Reference

< Carcinogen >

Chemical Name

No component of this toner is listed as a human carcinogen or a potential carcinogen in IARC Monographs, NTP, OSHA regulations or Annex I to Directive 67/548/EEC.

SECTION 3 HAZARDS IDENTIFICATION

EU Classification:

Not classified as dangerous.

Emergency Overview:

Yellow fine powder, slight plastic odor.

Potential Health Effects and Symptoms:

Inhalation:

Exposure to excessive amounts of dust may cause physical irritation to respiratory tract.

Ingestion:

Low acute toxicity. Ingestion is a minor route of entry for intended use of this product.

Eye:

May cause transient slight irritation.

Skin:

May be non-irritant.

Chronic Effects:

Prolonged inhalation of excessive amounts of dust may cause lung damage. Use of this product as intended does not result in inhalation of excessive amounts of dust.

Medical Conditions Generally known to be Aggravated by Exposure:

Not determined



SECTION 4 FIRST AID MEASURES

First Aid Measures:

Inhalation:

If symptoms are experienced, move victim to fresh air and obtain medical advice.

Ingestion:

Rinse mouth. Drink 1 or 2 glasses of water. If irritation or discomfort occurs, obtain medical advice immediately.

Eye:

Do not allow victim to rub eye(s). Flush with lukewarm, gently flowing water for 5 minutes or until particle is removed. If irritation persists, obtain medical attention.

Skin:

Wash with soap and water. If irritation persists, obtain medical advice.

Note to Physicians:

None

SECTION 5 FIRE FIGHTING MEASURES

Fire Fighting Measures:

Extinguishing Media:

CO2, water, dry chemicals

Unsuitable Extinguishing Media:

None

Special Fire Fighting Procedures:

None

Unusual Fire and Explosion Hazards:

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

Fire and Explosive Properties (See also Section 9):

Hazardous Combustion Products:

CO2, CO

Other Properties:

Not available

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid breathing dust.

Environmental Precautions:

Do not wash away into sewer.

Method for Cleaning Up:

Sweep slowly spilled powder on to paper, and carefully transfer into a waste container. Clean remainder with wet paper, wet cloth or a vacuum cleaner.

If a vacuum cleaner is used, it must rate as a dust explosion-proof type. Fine powder can form explosive dust-air mixtures.

SECTION 7 HANDLING AND STORAGE

Handling:

Avoid breathing dust.

Use with adequate ventilation.

Storage:

Keep out of the reach of children.

Keep away from oxidizing materials.

Specific Uses:

Toner for electrophotographic apparatus.

For more information, please refer to the instruction of this product.



SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

USA OSHA PEL (TWA):15 mg/m³ (Total dust), 5 mg/m³ (Respirable fraction)ACGIH TLV (TWA):10 mg/m³ (Inhalable fraction), 3 mg/m³ (Respirable fraction)DFG MAK:4 mg/m³ (Inhalable fraction), 1.5 mg/m³ (Respirable fraction)(Also refer to SECTION 2)

Engineering Controls:

Use adequate ventilation.

Personal Protection Equipment(s):

Respiratory Protection:	☐ Required ☑ Not Required
Eye/Face Protection:	☐ Required ▼ Not Required
Skin Protection:	□ Required ▼ Not Required

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Yellow fine powder
Odor:	Slight plastic odor
pH:	Not applicable
Boiling Point/Range(°C):	Not applicable
Melting Point/Range(°C):	85-120 (Softening point)
Decomposition Temperature(°C):	> 200
Flash Point(°C):	Not applicable
Flammable (Explosive) Limits:	Not applicable
Autoignition Temperature(°C):	Not available
Flammability:	Not-flammable (Test method: Directive 92/69/EEC, A10 Flammability (Solids))
Explosive Properties:	Can form explosive dust-air mixtures when finely dispersed in air.
Oxidizing Properties:	Not available
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Density / Specific Gravity:	1.0-1.5
Water Solubility:	Negligible
Fat Solubility:	Partially soluble in toluene and xylene.
Partition Coefficient (n-Octanol/Water):	Not applicable
Percent Volatile:	Negligible
Evaporation Rate:	Not applicable
Viscosity (mPa s):	Not applicable



SECTION 10 STABILITY AND) REACTIVITY			
Stability:	⊠ Stable □ Unstable			
Conditions to Avoid:	None Strong oxidizers CO, CO2			
Materials to Avoid:				
Hazardous Decomposition Products:				
Hazardous Polymerization:	☐ May Occur ☑ Will Not Occur			
Conditions to Avoid:	None			
SECTION 11 TOXICOLOGIC	AL INFORMATION			
Acute Toxicity: Inhalation: Not available				
Ingestion: Estimate: Rat, LD50 > 2000 mg	/kg (See Section 16)			
Eye: Estimate: Rabbit, transient slight	conjunctival irritation only. (See Section 16)			
Skin: Estimate: Rabbit, non-irritant (S	ee Section 16)			
Sensitization: Estimate: Guinea pig, skin: Non	-sensitizing (See Section 16)			
Mutagenicity: Ames Test (S. typhimurium, E. d	coli): Negative			
Reproductive Toxicity: Not available				
Carcinogenicity: Not available				
respirable-sized particles compared most relevant to potential human at 4 mg/m ³ , and a mild to modera	response upon chronic inhalation exposure in rats to a toner enriched in red to commercial toner. No pulmonary change was found at 1 mg/m ³ which is exposure. A minimal to mild degree of fibrosis was noted in 22% of the animals at edgree of fibrosis was observed in 92% of the animals at 16 mg/m ³ . lung overloading", a generic response to excessive amounts of any dust retained			

in the lung for a prolonged interval.



SECTION 12 ECOLOG	GICAL INFORMATION
Mobility:	Not available
Persistence / Degradability:	Not available
Bioaccumulation:	Not available
Ecotoxicity:	Estimate: Fish (Rainbow trout), 96h LL50 > 1000 mg/l (WAF) Estimate: Crustaceans (Daphnia magna), 48h EL50 > 1000 mg/l (WAF) Estimate: Algae (Scenedesmus subspicatus), EbL50(72h), ErL50(0-72h) > 1000 mg/l (WAF) (See Section 16)
Other Adverse Effects:	Not available

SECTION 13 DISPOSAL CONSIDERATIONS

Method of Disposal:

DO NOT put toner or toner container into fire; heated toner may cause severe burns. DO NOT shred a toner container, unless dust-explosion preventing measures are taken. Finely dispersed particles form explosive mixtures in air. Disposal should be subject to federal, state and local laws.

SECTION 14	FRANSPORT INFORMATION
UN #:	None
UN Shipping Name:	None
UN Classification:	None
UN Packing Group:	None
Marine Pollutant:	☐ Yes Chemical name (wt%): X No
Special Precautions	None
SECTION 15 H	REGULATORY INFORMATION
< EU Information >	
Information on the	
Symbol & Indic	ation: Not required
R-Phrase: Not required	
S-Phrase:	
Not required	
Dangerous Com Not required	ponent(s):
Special Precauti	ons under 1999/45/EC Annex V:
Not required	
Specific Provisions	in Relation to Protection of Man or the Environment:
76/769/EEC:	Not regulated
(EC)2037/2000:	Not regulated
(EC)304/2003:	Not regulated
Others:	None



< USA Information >

Information on the Lab	oel under O	SHA:		
Signal Word: Not	t required			
Hazard warning:				
Not required				
Safety Advice:				
Not required				
Hazardous Compon	ent(s):			
Not required				
SARA Title III §313:				
Chemical Name			Weight %	
None				
California Proposition	65:			
Chemical Name			Weight %	
None				
< Canada Information >				
WHMIS Controlled Pr	oduct:	Not applicable (Manufactured article)		
< Australia Information	>			
Statement of Hazardous Nature:		Not classified as hazardous according to criteria	of NOHSC.	

SECTION 16 OTHER INFORMATION

Estimate: Estimate based on test data on similar toner/developer/drum and/or the raw materials of this product. Revised information from the previous version: Section 2 and 11

Literature Reference:

- U.S. Department of Labor, 29CFR Part 1910
- U.S. Environmental Protection Agency, 40CFR Part 372
- U.S. Consumer Product Safety Commission, 16CFR Part 1500
- ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices
- U.S. Department of Health and Human Services National Toxicology Program, Annual Report on Carcinogens
- World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risk of Chemicals to Humans
- DFG, List of MAK and BAT Values
- EU Directive 76/769/EEC, 67/548/EEC, 1999/45/EC
- EU Regulation (EC)2037/2000, (EC)304/2003
- Canada Workplace Hazardous Materials Information System

- Australia National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances[NOHSC:1008]



Abbreviations: EU: European Union.

OSHA PEL: PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration (USA). ACGIH TLV: TLV(Threshold Limit Value) under American Conference of Governmental Industrial Hygienists. EU ILV: Indicative Limit Values for Occupational Exposure under EU Directive 91/322/EEC, 2000/39/EC and 2006/15/EC. DFG MAK: MAK(Maximale Arbeitsplatz-Konzentration) under Deutsche Forschungsgemeinschaft. TWA: Time Weighted Average. STEL: Short Term Exposure Limit. IARC: International Agency for Research on Cancer. NTP: National Toxicology Program (USA). WAF: Water Accommodated Fraction LL: Lethal Loading rate EL: Effective Loading rate OSHA HCS: Occupational Safety and Health Act, Hazard Communication Standard (USA). FHSA: Federal Hazardous Substances Act (USA). WHMIS: Workplace Hazardous Materials Information System. NOHSC: National Occupational Health and Safety Commission.

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