

| Cuiton | | MA | FERIAL S | SAFETY DA | TA SHEET | Product Code: | 1429A / F42-3111 |
|--|---------------------|---------------------|---------------|--------------------|--------------------|-------------------|------------------|
| | DENTIFIC COMPANY | | | JBSTANCE/PI | REPARATION | AND OF THE | E |
| Product Name: | Canon Tor | ner (Cyan |) for CLC11 | 00 series | | | |
| Product Code: | 1429A / F4 | 42-3111 | | | | | |
| Company Name: | Canon Inc. | | | | | | |
| Address: | 30-2, Shin | omaruko | 3-Chome, C | Dhta-ku, Tokyo | 146-8501, Japar | 1 | |
| Use of the Product: | Toner for e | electroph | otographic a | pparatus | | | |
| | | | FICATION | | | | |
| EU Classification: | | | dangerous. | | | | |
| Emergency Overvie | | | | tic odor. | | | |
| Potential Health Ef | fects and Sy | mptoms | : | | | | |
| Inhalation: | | ounts of | duct more on | una mbrusiani imi | tation to magning | ami traat | |
| | excessive an | iounts of | dust may ca | use physical irri | tation to respirat | lory tract. | |
| Ingestion: Low acute to: | xicity. Inges | tion is a 1 | ninor route o | of entry for inter | nded use of this | product. | |
| Eye: | | | | | | | |
| May cause tra | ansient sligh | t irritatio | n. | | | | |
| Skin: | | | | | | | |
| May cause sli | * | n. | | | | | |
| Chronic Effects | | • | . | 1 | 1 | 6.4.1. | |
| does not resu | | | | • | lung damage. Us | se of this produc | ct as intended |
| Medical Condit | | | | | nocuro. | | |
| Not determin | | any knov | vii to be Agg | gravateu by Ex | posure. | | |
| - | | TION/IN | FORMATI | ON ON INGRI | EDIENTS | | |
| < Ingredient(s) > | | | | | | | |
| Chemical Name / | CAS #/ | Weight | EU Symbol/ | USA | ACGIH TLV | EU ILV | DFG MAK |
| Generic Name | EC # | % | R-Phrase | OSHA PEL | | | |
| Polyester resin | Confidential | 85-95 | None/ None | Not established | Not established | Not established | Not established |
| | | | | | | | |
| Hydrogen bis[3,5-di-tert- | 72869-85-3/ | 1-6 | Xn/ R22 | Not established | Not established | Not established | Not established |
| butylsalicylato(2-)-O1, O2]chromate(1-) | 276-955-4 | (as Cr: 0.1-0.6) | An/ K22 | The established | | | Not established |

< Carcinogen >

No component of this toner is listed as a human carcinogen or a potential carcinogen in IARC Monographs, NTP, OSHA regulations or Part 3 of Annex VI to Regulation (EC) 1272/2008.

< PBT substance and vPvB substance >

No component of this toner is a PBT or vPvB subtance under Regulation (EC)1907/2006.



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:

| | 15 mg/m ³ (Total dust), 5 mg/m ³ (Respirable fraction) |
|--------------------------|---|
| ACGIH TLV (TWA): | 10 mg/m^3 (Inhalable fraction), 3 mg/m^3 (Respirable fraction) |
| DFG (MAK): | 4 mg/m^3 (Inhalable fraction), 1.5 mg/m^3 (Respirable fraction) |
| (Also refer to SECTION 3 |) |

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: | Cyan 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 |

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|--|--|-----------------------------|--|
| Canon | | MSDS #: | TN1049-0506 |
| | MATERIAL SAFETY DATA SHEET | Product Code: | 1429A / F42-3111 |
| SECTION 10 STABILITY A | AND REACTIVITY | | |
| Stability: | ⊠ Stable □ Unstable | | |
| Conditions to Avoid: | None | | |
| Materials to Avoid: | Strong oxidizers | | |
| Hazardous Decomposition Produ | cts: <u>CO, CO2</u> | | |
| Hazardous Polymerization: | ☐ May Occur ⊠ Will Not Occur | | |
| Conditions to Avoid: | None | | |
| SECTION 11 TOXICOLOG | JICAL INFORMATION | | |
| Acute Toxicity: Inhalation: Not available | | | |
| Ingestion: Estimate: Rat, LD50 > 2000 | mg/kg (See SECTION 16) | | |
| Eye: Estimate: Rabbit, transient s | light conjunctival irritation only. (See SECTION 16 | 5) | |
| Skin: Estimate: Rabbit, mild irrita | nt (See SECTION 16) | | |
| Sensitization: Guinea pig, skin: Non-sensi | tizing | | |
| Mutagenicity: Ames Test (S. typhimurium | , E. coli): Negative | | |
| Reproductive Toxicity: Not available | | | |
| Carcinogenicity: Not available | | | |
| respirable-sized particles co is most relevant to potential | nary response upon chronic inhalation exposure in a mpared to commercial toner. No pulmonary change human exposure. A minimal to mild degree of fibro iild to moderate degree of fibrosis was observed in 9 | was found at osis was noted | 1 mg/m ³ which in 22% of the |

mg/m^3 .

These findings are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lung for a prolonged interval.



| SECTION 12 ECO | DLOGICAL INFORMATION |
|--|--|
| Mobility: | Not available |
| Persistence / Degradab | ility: Not available |
| Bioaccumulation: | Not available |
| Ecotoxicity: | Estimate: Fish, 96h LL50 > 1000 mg/l (WAF) Estimate: Crustaceans, 48h EL50 > 1000 mg/l (WAF) Estimate: Algae, EbL50(72h), ErL50(0-72h) > 1000 mg/l (WAF) (See SECTION 16) |
| Other Adverse Effects: | Not available |
| SECTION 13 DIS | POSAL CONSIDERATIONS |
| container, unless dus mixtures in air. Disp | r toner container into fire; heated toner may cause severe burns. DO NOT shred a toner t-explosion preventing measures are taken. Finely dispersed particles form explosive osal should be subject to federal, state and local laws. |
| | |
| UN Shipping Name: No | |
| UN Classification: No. | one |
| UN Packing Group: No. | one |
| | Yes Chemical name (wt%): No |
| Special Precautions: No | one |
| SECTION 15 REC | GULATORY INFORMATION |

U Information 2 ς. Information on the Label: Symbol & Indication: Not required **R-Phrase:** Not required S-Phrase: Not required **Dangerous** Component(s): Not required Special Precautions under 1999/45/EC Annex V: Safety data sheet available for professional user on request. Specific Provisions in Relation to Protection of Man or the Environment: 76/769/EEC: Not regulated (EC)2037/2000: Not regulated (EC)689/2008: Not regulated

Others:

None

| Information on the Label under O | эпа: | |
|----------------------------------|---|---------------|
| Signal Word: Not required | | |
| Hazard warning: Not required | | |
| Safety Advice: | | |
| Not required | | |
| Hazardous Component(s): | | |
| Not required | | |
| SARA Title III §313: | | |
| | | Weight % |
| "Chromium(III) Compounds" | | 1-6 |
| (as Cr) | | (0.1-0.6) |
| California Proposition 65: | | |
| Chemical Name | | Weight % |
| None | | |
| < Canada Information > | | |
| WHMIS Controlled Product: | Not a controlled product | |
| < Australia Information > | | |
| Statement of Hazardous Nature: | Not classified as hazardous according to criter | ria of NOHSC. |
| SECTION 16 OTHER INFOR | | |

Revised information from the previous version: SECTION 3 and 12

Estimate: Estimate based on test data on similar toner/developer/drum and/or the raw materials of this product.

Literature References:

- 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)689/2008, (EC)1907/2006, (EC)1272/2008
- 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.

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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