

## MATERIAL SAFETY DATA SHEET

#### SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING Product Name: Concertridge G Vallow for Logar Beem Brinter/Conjur

Product Name:	Canon Toner Cartridge G Yellow for Laser Beam Printer/Copier
<b>Product Code:</b>	1512A / F42-3611
<b>Company Name:</b>	Canon Europa N.V.
Address:	Bovenkerkerweg 59-61, 1185 XB, Amstelveen, The Netherlands
Use of the Product:	Toner for electrophotographic apparatus

## 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
Styrene acrylate copolymer	Confidential	70-80	None/ None	Not established	Not established	Not established	Not established
Wax	Confidential	5-15	None/ None	Not established	Not established	Not established	Not established
Polyester resin	Confidential	5-10	None/ None	Not established	Not established	Not established	Not established
Pigment	Confidential	5-10	None/ None	Not established	Not established	Not established	Not established

#### < Carcinogen > Chemical Name

Chemical Name CAS # Reference

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):**

<b>Respiratory Protection:</b>	☐ 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):	100-150 (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:	1.0-1.2		
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:	X Stable □ Unstable		
Conditions to Avoid:	None		
Materials to Avoid:	Strong oxidizers		
Hazardous Decomposition Products:	<u>CO, CO2</u>		
Hazardous Polymerization:	☐ May Occur ☑ Will Not Occur		
<b>Conditions to Avoid:</b>	None		
SECTION 11 TOXICOLOGICA	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: Estimate: Ames Test (S. typhimu	urium, E. coli): Negative (See SECTION 16)		
Reproductive Toxicity: Not available			
Carcinogenicity: Not available			
respirable-sized particles compared most relevant to potential human at 4 mg/m <sup>3</sup> , 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 <sup>3</sup> which is exposure. A minimal to mild degree of fibrosis was noted in 22% of the animals at degree of fibrosis was observed in 92% of the animals at 16 mg/m <sup>3</sup> . These verloading", a generic response to excessive amounts of any dust retained in the		

lung for a prolonged interval.



SECTION 12 ECOLOGICAL INFORMATION				
Mobility:	Not available			
Persistence / Degradability:	Not available			
<b>Bioaccumulation:</b>	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	<b>FRANSPORT INFORMATION</b>		
UN #:	None		
UN Shipping Name:	None		
UN Classification:	None		
<b>UN Packing Group:</b>	None		
Marine Pollutant:	☐ Yes Chemical name (wt%): ☑ No		
Special Precautions:	None		
SECTION 15	REGULATORY INFORMATION		
< EU Information >			
Information on the	Label:		
Symbol & Indica	ation: Not required		
<b>R-Phrase:</b>			
Not required			
S-Phrase:			
Not required			
Dangerous Com	ponent(s):		
Not required			
Special Precauti	ons under 1999/45/EC Annex V:		
Not required			
<b>Specific Provisions</b>	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	Label under OS	SHA:	
Signal Word:	Not required		
Hazard warning	g:		
Not required			
Safety Advice:			
Not required			
Hazardous Com	ponent(s):		
Not required			
SARA Title III §31	13:		
Chemical Na	ime		Weight %
None			
California Proposi	tion 65:		
Chemical Na	ime		Weight %
None			
< Canada Informati	on >		
WHMIS Controlle	d Product:	Not applicable (Manufactured article)	
< Australia Informa	tion >		
Statement of Hazardous Nature:         Not classified as hazardous according to criteria of NOHSC.			of NOHSC.

#### **SECTION 16 OTHER INFORMATION**

Revised information from the previous version: SECTION 11 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)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.

Deterministration Onton.
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
GSHA 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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