



MATERIAL SAFETY DATA SHEET

according to §6 NR SR No. 67/2010 Coll. (Chemical Law), Regulation EC No. 1907/2006 (REACH), Regulation EC 1207/2008 (CLP) and Commission Regulation EU No. 453/2010

| | | | | |
|---------------------|---|----------------|---------------|----------|
| Name of the product | Toner cartridge ColorWay of series „M“ | | | page |
| Issue date: | 1. 6. 2016 | Revision date: | Version.: 1.1 | - 1/11 - |

SECTION 1: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

| | | |
|------------|--|--|
| 1.1 | Product identifier | |
| | Product name: | Toner cartridge ColorWay of series "M" |
| | Other means of identification: | not set |
| | Registration number: | not relevant, the product is a mixture, not a compound |
| 1.2 | Relevant identified uses of the substance or mixture and uses advised against | |
| | Identified uses: | toner for laser printers / copiers |
| | CW-CFX10M | for: Canon 703/FX9/FX10; HP Q2612A (12A) |
| | CW-C703M | for: Canon 703/FX9/FX10; HP Q2612A (12A) |
| | CW-C719M | for: Canon 719; HP CE505A |
| | CW-C712M | for: Canon 712/713; HP CB435A/CB436A |
| | CW-C725M | for: Canon 725; HP CE285A (85A) |
| | CW-C728M | for: Canon 728/726; HP CE278A (78A) |
| | CW-C726M | for: Canon 728/726 |
| | CW-C737M | for: Canon 737 H; HP CF283X (83X) |
| | CW-CEP27M | for: Canon EP-27/26 |
| | CW-CE16M | for: Canon E16 |
| | CW-C724M | for: Canon 724; HP CE255A (55A) |
| | CW-H4092M | for: HP C4092A; Canon EP-22 |
| | CW-H7115M | for: HP C7115A/Q2613A/Q2624A; Canon EP-25 |
| | CW-H435/436M | for: HP CB435A/CB436A/CE285A; Canon 712/713/725 |
| | CW-H278M | for: HP CE278A (78A); Canon 728/726 |
| | CW-H283M | for: HP CF283A (83A) |
| | CW-H283MX | for: HP CF283X (83X); Canon 737 H |
| | CW-H285M | for: HP CE285A (85A); Canon 725 |
| | CW-H285MX | for: HP CE285X (85X); Canon 725H |
| | CW-H280M | for: HP CF280A (80A) |
| | CW-H505/280M | for: HP CE505A (05A)/CF280A (80A); Canon 719 |
| | CW-H505/280MX | for: HP CE505X (05X)/CF280X (80X); Canon 719H |
| | CW-HQ2612/FX10M | for: HP Q2612A (12A); Canon 703/FX9/FX10 |
| | CW-H5949/7553M | for: HP Q5949A/Q7553A; Canon 315/308/708 |
| | CW-H255M | for: HP CE255A (55A); Canon 724 |
| | CW-H255MX | for: HP CE255X (55X); Canon 724 H |
| | CW-H214M | for: HP: CF214A (14A) |
| | CW-H214MX | for: HP: CF214X (14X) |
| | CW-H364M | for: HP: CC364A (64A) |
| | CW-H364MX | for: HP: CC364X (64X) |
| | CW-HCE390M | for: HP: CE390A (90A) |
| | CW-HCE390MX | for: HP: CE390X (90X) |
| | CW-H210BKM | for: HP CF210A (131A) / CE320A (128A) / CB540A (125A); Canon 731Bk / 716Bk |
| | CW-H210BKMX | for: HP CF210X (131X); Canon731Bk H |
| | CW-H211CM | for: HP CF211A (131C) / CE321A (128C) / CB541A (125C); Canon 731C /716C |
| | CW-H212YM | for: HP CF212A (131Y) / CE322A (128Y) / CB542A (125Y); Canon 731Y/ 716Y |
| | CW-H213MM | for: HP CF213A (131M) / CE323A (128M) / CB543A (125M); Canon 731M / 716M |
| | CW-C731BKM | for: Canon 731Bk; HP CF210A (131A) |
| | CW-C731CM | for: Canon 731C; HP CF211A (131C) |
| | CW-C731YM | for: Canon 731Y; HP CF212A (131Y) |
| | CW-C731MM | for: Canon 731M; HP CF213A (131M) |
| | CW-H310BKM | for: HP CE310A (126A) / CF350A (130A); Canon 729Bk |
| | CW-H311CM | for: HP CE311A (126C) / CF351A (130C); Canon 729C |



MATERIAL SAFETY DATA SHEET

according to §6 NR SR No. 67/2010 Coll. (Chemical Law), Regulation EC No. 1907/2006 (REACH), Regulation EC 1207/2008 (CLP) and Commission Regulation EU No. 453/2010

| | | | | |
|---------------------|---|----------------|---------------|----------|
| Name of the product | Toner cartridge ColorWay of series „M“ | | | page |
| Issue date: | 1. 6. 2016 | Revision date: | Version.: 1.1 | - 2/11 - |

| | |
|-----------------------|--|
| CW-H312YM | for: HP CE312A (126Y) / CF352A (132Y); Canon 729Y |
| CW-H313MM | for: HP CE313A (126M) / CF353A (130M); Canon 729M |
| CW-C729BKM | for: Canon 729Bk; HP CE310A (126A) |
| CW-C729CM | for: Canon 729C; HP CE311A (126C) |
| CW-C729YM | for: Canon 729Y; HP CE312A (126Y) |
| CW-C729MM | for: Canon 729M; HP CE313A (126M) |
| CW-H350BKM | for: HP CF350A (130A) / CE310A (126A); Canon 729Bk |
| CW-H351CM | for: HP CF351A (130C) / CE311A (126C); Canon 729C |
| CW-H352YM | for: HP CF352A (132Y) / CE312A (126Y); Canon 729Y |
| CW-H353MM | for: HP CF353A (130M) / CE313A (126M); Canon 729M |
| CW-H380BKM | for: HP CF380A (312A) |
| CW-H380BKMX | for: HP CF380X (312X) |
| CW-H381CM | for: HP CF381A (312C) |
| CW-H382YM | for: HP CF382A (312Y) |
| CW-H383MM | for: HP CF383A (312M) |
| CW-H410BKM | for: HP CE410A (305A) / CC530A (304A); Canon 718Bk |
| CW-H411CM | for: HP CE411A (305C) / CC531A (304C); Canon 718C |
| CW-H412YM | for: HP CE412A (305Y) / CC532A (304Y); Canon 718Y |
| CW-H413MM | for: HP CE413A (305M) / CC533A (304M); Canon 718M |
| CW-H530BKM | for: HP CC530A (304A) / CE410A (305A); Canon 718Bk |
| CW-H531CM | for: HP CC531A (304C) / CE411A (305C); Canon 718C |
| CW-H532YM | for: HP CC532A (304Y) / CE412A (305Y); Canon 718Y |
| CW-H533MM | for: HP CC533A (304M) / CE413A (305M); Canon 718M |
| CW-C718BKM | for: Canon 718Bk; HP CC530A (304A) |
| CW-C718CM | for: Canon 718C; HP CC531A (304C) |
| CW-C718YM | for: Canon 718Y; HP CC532A (304Y) |
| CW-C718MM | for: Canon 718M; HP CC533A (304M) |
| CW-H540BKM | for: HP CB540A (125A) / CF210A (131A) / CE320A (128A); Canon 731Bk / 716Bk |
| CW-H541CM | for: HP CB541A (125C) / CF211A (131C) / CE321A (128C); Canon 731C / 716C |
| CW-H542YM | for: HP CB542A (125Y) / CF212A (131Y) / CE322A (128Y); Canon 731Y / 716Y |
| CW-H543MM | for: HP CB543A (125M) / CF213A (131M) / CE323A (128M); Canon 731M / 716M |
| CW-S1610M | for: Samsung ML-1610D2/ML-2010D3/SCX-4521D3; Xerox 013R00621/106R01159 |
| CW-S4100M | for: Samsung ML-1710D3/SCX-4100D3/SCX-4216D3; Xerox 109R00725 |
| CW-S4200M | for: Samsung SCX-4200 |
| CW-S1660M | for: Samsung MLT-D1042S |
| CW-S4300M | for: Samsung MLT-D1092S |
| CW-S2020M | for: Samsung MLT-D111S |
| CW-S300BM | for: Samsung CLP-K300A |
| CW-S300CM | for: Samsung CLP-C300A |
| CW-S300YM | for: Samsung CLP-Y300A |
| CW-S300MM | for: Samsung CLP-M300A |
| CW-X3119M | for: Xerox 013R00625 |
| CW-X3010M | for: Xerox 106R02183 |
| CW-X3250M | for: Xerox 106R01373 |
| CW-X3250MX | for: Xerox 106R01374 |
| Uses advised against: | not defined |



MATERIAL SAFETY DATA SHEET

according to §6 NR SR No. 67/2010 Coll. (Chemical Law), Regulation EC No. 1907/2006 (REACH), Regulation EC 1207/2008 (CLP) and Commission Regulation EU No. 453/2010

| | | | | |
|---------------------|---|----------------|--|----------|
| Name of the product | Toner cartridge ColorWay of series „M“ | | | page |
| Issue date: | 1. 6. 2016 | Revision date: | | - 3/11 - |

| | | | | |
|------------|--|---|--|--|
| 1.3 | Details of the supplier of the safety data sheet | | | |
| | Distributor: <i>(responsible for marketing in Slovak Republic)</i> | Capital System s. r. o. Ivánska cesta 91, Bratislava, SK - 821 04 tel.: +421 903 372 912 e-mail: info@colorway.sk web: www.colorway.sk | | |
| | Importer: <i>(responsible for import to EU)</i> | Gross Company Limited Unit B, 9/F, Lockhart Centre 301-307 Lockhart Road Wan Chai Hong Kong | | |
| | Competent person responsible for the safety data sheet: PharmDr. Vladimír Végh, info@pharmis.sk | | | |

| | | | | |
|------------|---|--|--|--|
| 1.4 | Emergency telephone number | | | |
| | National Toxicological Information Centre (NTIC), FNŠP, Limbová 5, 833 05 Bratislava 37, Slovak Republic, tel.: 00421 (0)2 5477 4166 ; tel.: 00421 (0) 2 5477 4605, (24 h non-stop), www.ntic.sk | | | |

SECTION 2: HAZARDS IDENTIFICATION

The product - printer cartridge is a combination of an article (functioning as container) and a mixture (pigment); therefore according to Regulation EC No. 1907/2006 (REACH) and Regulation EC 1207/2008 (CLP) the product is considered as an **article with an integral substance/mixture**.

General classification of the mixture (pigment inside the container): the mixture is **not** classified as dangerous in accordance with 67/548/EEC, 1999/45/EC or 67/2010 Coll. (SK).

| | | | | |
|--|----------------------------------|--|--|--|
| | Important health effects: | Based on composition, no adverse effects for human health are expected for the mixture; therefore the mixture is not considered as dangerous for human health. There are no hazards under normal use conditions. If the container is opened, released powder may cause slight irritation of respiratory tract. High amounts of dust may cause eye irritation or even corneal injury. | | |
| | Important environmental effects: | Based on composition, no adverse effects in the environment are expected for the mixture; therefore the mixture is not considered as dangerous for the environment. | | |

| | | | | |
|------------|---|---|--|--|
| 2.1 | Classification of the substance or mixture | | | |
| | Classification (67/548/EEC / 1999/45/EC) | The mixture is not classified as dangerous. | | |

| | | | | |
|------------|--------------------------|--------------|--|--|
| 2.2 | Label elements | | | |
| | Contains: | not required | | |
| | Symbols: | not required | | |
| | Risk Phrases: | not required | | |
| | Safety Phrases: | not required | | |
| | Other required labeling: | not required | | |

| | | | | |
|------------|---|--|--|--|
| 2.3 | Other hazards | | | |
| | PBT or vPvB content: the mixture is not fulfilling criteria for PBT or vPvB according to Annex XIII, Regulation EC No. 1272/2008. Compounds are not listed on the Candidate list of Substances of Very High Concern (SVHC). | | | |
| | Contained powder is not a highly flammable, but when suspended in air, is combustible as with most organic powders. | | | |



MATERIAL SAFETY DATA SHEET

according to §6 NR SR No. 67/2010 Coll. (Chemical Law), Regulation EC No. 1907/2006 (REACH), Regulation EC 1207/2008 (CLP) and Commission Regulation EU No. 453/2010

| | | | | |
|---------------------|--|----------------|---------------|----------|
| Name of the product | Toner cartridge ColorWay of series „M“ | | | page |
| Issue date: | 1. 6. 2016 | Revision date: | Version.: 1.1 | - 4/11 - |

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of fine grinded pigments and copolymers in a cartridge.

| | |
|-----------------------|--|
| 3.1 Substances | does not apply |
| 3.2 Mixtures | The mixture contains these classified substances / substances with Community workplace exposure limits / substances persistent, bioaccumulative and toxic or very persistent and very bioaccumulative: |

| Substance <i>REACH registration number</i> | Content (% w/w) | EC Number CAS Number Index Number | Classification 67548/EEC 1999/45/EC* | Classification 1272/2008/EC* | Exposure limits |
|---|--------------------|---|--|------------------------------------|------------------------------------|
| polyester resin <i>REACH No. not available yet</i> | > 82 | - - - | <i>not classified as dangerous</i> | <i>not classified as dangerous</i> | Exp. lim. (nat./SVK) see 8.1 |
| carbon black <i>REACH No. not available yet</i> | < 8 | 215-609-9 1333-86-4 - | <i>not classified as hazardous</i> | <i>not classified as hazardous</i> | Exp. lim. (nat./SVK) see 8.1 |
| iron trioxide <i>REACH No. not available yet</i> | < 4 | 215-277-5 1317-61-9 - | <i>not classified as dangerous</i> | <i>not classified as dangerous</i> | Exp. lim. (nat./SVK) see 8.1 |
| ethylene-propylene copolymer <i>REACH No. not available yet</i> | < 4 | polymer 9010-79-1 - | <i>not classified as dangerous</i> | <i>not classified as dangerous</i> | Exp. lim. (nat./SVK) see 8.1 |
| amorphous silica siloxanes and silicones, di-Me, reaction products with silica <i>REACH No. not available yet</i> | < 2 | mixture 67762-90-7 - | <i>not classified as dangerous</i> | <i>not classified as dangerous</i> | Exp. lim. (nat./SVK) see 8.1 |

* For full wording of used Risk Phrases (R-phrases) and Hazard Statements (H-phrases) see Section 16.e.

SECTION 4: FIRST AID MEASURES

| | |
|--|--|
| 4.1 Description of first aid measures | Health hazard is minimal, being neither irritating, corrosive, volatile, nor toxic. Effects of over exposure: There are no hazards under normal use conditions. Observe all user considerations and safety measures stated on the packaging. In case of any health problem or uncertainty seek medical attention and provide information from this Material Safety Data Sheet. Unconscious persons place in the stabilized position and observe the breathing. Never give any fluids to unconscious persons. |
| Inhalation: | As of physical status (closed container) inhalation is not expected. If the container is opened, released powder may cause slight irritation of respiratory tract. In case of individual problems following the aerosols inhalation, remove the affected persons to a fresh air. Administer oxygen or artificial respiration if there is difficulty breathing until medical attendance. Seek medical advice if the symptoms persist. |
| Skin contact: | As of physical status (closed container) skin contact is not expected. If the container is opened: Immediately remove all soiled or stained clothing. Wash the affected area immediately and repeatedly with soap and water. Seek medical advice if the skin irritation persists. |
| Eye contact: | As of physical status (closed container) eye contact is not expected. If the container is opened: Keep eyelids open and rinse immediately and repeatedly with copious amount of water for at least 5 - 10 minutes. Remove contact lenses if present. Seek medical advice if the irritation persists. |
| Ingestion: | As of physical status (closed container) ingestion is not expected. If the container is opened: Wash mouth with water; give some water to drink (only if the affected person is conscious). Do not induce vomiting! In case of spontaneous vomiting avoid aspiration of the vomits. Get medical attention immediately and show product package or label! |



MATERIAL SAFETY DATA SHEET

according to §6 NR SR No. 67/2010 Coll. (Chemical Law), Regulation EC No. 1907/2006 (REACH), Regulation EC 1207/2008 (CLP) and Commission Regulation EU No. 453/2010

| | | | | |
|---------------------|---|----------------|--|----------|
| Name of the product | Toner cartridge ColorWay of series „M“ | | | page |
| Issue date: | 1. 6. 2016 | Revision date: | | - 5/11 - |

4.2 Most important symptoms and effects, both acute and delayed
As of physical status (closed container) contact with the mixture is not expected. There are no hazards under normal use conditions. If the container is opened, released powder may cause slight irritation of respiratory tract.

4.3 Indication of any immediate medical attention and special treatment needed
No specific therapy known. Use supportive and symptomatic treatment.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: water spray, alcohol-resistant foam, dry-powder, carbon dioxide or other fire-fighting gases

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

The pigment is not a highly flammable, but when suspended in air, is combustible as with most organic powders. Incomplete combustion and thermolysis may produce toxic, irritating and flammable decomposition products (such as carbon monoxide, carbon dioxide, sooth, aldehydes and other products of organic compounds decomposition).

5.3 Advice for fire-fighters

Always wear self-contained breathing apparatus and protective suit. In case of a large fire or in confined or poorly ventilated spaces, wear full fire resistant protective clothing and self-contained breathing apparatus (SCBA) - risk of toxic, irritating and flammable decomposition products. Specific fire-fighting equipment has to comply Act No. 314/2001 Coll. on the protection against fire and Act No. 315/2001 Coll. on Fire and Rescue Corps. Advance from the upwind. Use appropriate barriers to avoid leakage of contaminated waters. Cool containers with water spray; remove from the affected area if possible. Contaminated waters should not enter the environment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Observe all user considerations and safety measures. No special requirements are needed under normal use conditions.

If the container is opened: Avoid dust inhalation. Prevent skin and eye contact. Adequate ventilation and cleanup must be maintained to minimize dust accumulation / throw-up. May form explosive dust-air mixture. According to the release scale use appropriate other personal protection (gloves, mask, protective clothes, see Section 8). All unprotected persons should be restraint.

6.2 Environmental precautions

No special requirements are needed.

6.3 Methods and materials for containment and cleaning up

Bigger amounts pick-up carefully - avoid dust throw-up. Soak up the rests with wet clothes. Collect to appropriate containers. All containers should be appropriately labeled. Dispose according to valid legislation; send to dangerous wastes treatment facility. Clean up affected areas with water and detergent.

6.4 Reference to other sections

Adhere to instructions in the section 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Observe all user considerations and safety measures. No special requirements are needed under normal use conditions. Handle with care, avoid breaking the container and subsequent leakage. Keep containers closed when not in use.

If the container is opened: Avoid dust inhalation. Prevent skin and eye contact. Use appropriate protective clothes and personal protection (see 8.2). Adhere to all personal protection and work safety regulations. Ensure appropriate ventilation during handling. Minimize dust generation and accumulation. Avoid breathing dust. Wash skin with soap and water after contact.

Empty containers may contain product residue. Do not reuse and damage empty container.



MATERIAL SAFETY DATA SHEET

according to §6 NR SR No. 67/2010 Coll. (Chemical Law), Regulation EC No. 1907/2006 (REACH), Regulation EC 1207/2008 (CLP) and Commission Regulation EU No. 453/2010

Name of the product

Toner cartridge ColorWay of series „M“

page
- 6/11 -

Issue date:

1. 6. 2016

Revision date:

Version.: 1.1

7.2 Conditions for safe storage, including any incompatibilities

Store in dry and calm areas. Protect from direct sunlight and warm/heating. Keep out of oxidizing materials. Keep out of the reach of children.

7.3 Specific end uses

toner for laser printers / copiers

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Expositions limits in accordance with the Regulation 471/2011 Coll. (SK), Appendix 1: the highest permissible exposition limits for gases, vapours and aerosols with general toxic effects in the workplace atmosphere (NPEL):

| CAS | Substance name | NPEL |
|------------|--|---|
| - | polyester resin* (solid aerosols with predominant irritation effects) | NPELc: 5 mg/m ³ |
| 1333-86-4 | carbon black* | NPELr average (respirable fraction): Fr ≤ 5%: 2 mg/m ³ Fr > 5%: 10 mg/m ³ NPELc average (total concentration): 10 mg/m ³ |
| 12227-89-3 | iron oxides, fumes (as Fe)* | NPEL average (respirable fraction): 1,5 mg/m ³ NPEL average (inhalable fraction): 4 mg/m ³ |
| 9003-07-0 | polypropylene* (solid aerosols with predominant irritation effects) | NPELc: 5 mg/m ³ |
| 67762-90-7 | amorphous silica* as: Other silicates | NPELr average (respirable fraction): Fr ≤ 5%: 2 mg/m ³ Fr > 5%: 10 mg/m ³ NPELc average (total concentration): 10 mg/m ³ |

* Exposition not expected under normal use conditions / applicable only when the container is opened / broken

Indicative occupational exposure limit values in accordance with the Directive 2000/39/EC, Directive 2006/15/EC and Directive 2009/161/EC: not set

Indicative biological limits: not set

DNEL: not set

PNEC: not set

8.2 Exposure controls

In accordance with Regulation No. 355/2006 Coll. (SK), amended by Regulation No. 471/2011 Coll. (SK).

Appropriate engineering controls:

Observe all user considerations and safety measures. No special requirements are needed under normal use conditions.

If the container is opened: Avoid contact with skin, eyes and mucous membranes. Avoid dust inhalation. Adequate ventilation and cleanup must be maintained to minimize dust accumulation / throw-up. Do not eat, drink or smoke during manipulation. Wash your hands immediately following the product manipulation. Remove contaminated clothing, take a shower and use clean clothing. Ensure exposure controls in accordance with the Act 124/2006 Coll. (SK) on Occupational Safety and Health Protection.



MATERIAL SAFETY DATA SHEET

according to §6 NR SR No. 67/2010 Coll. (Chemical Law), Regulation EC No. 1907/2006 (REACH), Regulation EC 1207/2008 (CLP) and Commission Regulation EU No. 453/2010

| | | | | |
|---------------------|---|----------------|---------------|----------|
| Name of the product | Toner cartridge ColorWay of series „M“ | | | page |
| Issue date: | 1. 6. 2016 | Revision date: | Version.: 1.1 | - 7/11 - |

Individual protection measures, such as personal protective equipment:

- a) Eye / face protection
No special requirements are needed under normal use conditions
- b) Skin protection:
No special requirements are needed under normal use conditions.

If the container is opened: Wear appropriate rubber gloves (STN EN 374-1) and appropriate antistatic protective clothes and boots (STN EN ISO 20345).

Note: When selecting specific type of the protective gloves for specific use and exposition duration you should consider all factors of the occupational exposure, such as other chemicals used, physical factors (possibility of cutting/tearing, thermal protection), and other specifications and recommendations of the gloves manufacturer. Inspect and replace worn or damaged gloves.
- c) Respiratory protection:
No special requirements are needed under normal use conditions.

If the container is opened: Do not inhale powder / aerosols. Ensure appropriate ventilation or exhaustion at the workplace. If exposure limits are over, use self-contained breathing apparatus or face mask with particle filter (P2, STN EN 14387+A1).
- d) Thermal hazards:
No such risk when normally used.

Environmental exposure controls:

See information in sections 6 and 12. Adhere to requirements of the Act No. 4787/2002 Coll. on air protection (*Air Act*) as amended and the Act No. 364/2004 Coll. on waters (*Water Act*) as amended.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| Properties | Properties | Properties |
|---|----------------------------------|------------|
| Appearance: | fine powder in plastic container | - |
| Colour: | black | - |
| Odour: | no specific odour | - |
| Odour threshold: | information not available | - |
| pH: | information not available | - |
| Melting point/freezing point: | information not available | - |
| Initial boiling point and boiling range: | information not available | - |
| Flash point: | information not available | - |
| Evaporation rat: | information not available | - |
| Flammability (solid, gas) | information not available | - |
| Upper/lower flammability or explosive limits: | information not available | - |
| Vapour pressure: | information not available | - |
| Vapour density: | information not available | - |
| Relative density: | information not available | - |
| Solubility/ies: | insoluble in water | 20°C |
| Partition coefficient: n-octanol/water: | information not available | - |
| Auto-ignition temperature: | information not available | - |



MATERIAL SAFETY DATA SHEET

according to §6 NR SR No. 67/2010 Coll. (Chemical Law), Regulation EC No. 1907/2006 (REACH), Regulation EC 1207/2008 (CLP) and Commission Regulation EU No. 453/2010

| | | | | |
|---------------------|---|----------------|--|----------|
| Name of the product | Toner cartridge ColorWay of series „M“ | | | page |
| Issue date: | 1. 6. 2016 | Revision date: | | - 8/11 - |

| | | |
|------------------------------|-------------------------------------|---|
| Decomposition temperature: | information not available | - |
| Viscosity: | information not available | - |
| Explosive properties: | may form explosive dust-air mixture | - |
| Oxidising properties: | no oxidising properties | - |
| 9.2 Other information | | |
| - | | - |

SECTION 10: STABILITY AND REACTIVITY

| | |
|--|--|
| 10.1 Reactivity | Mixture is not reactive under normal conditions of storage and use. |
| 10.2 Chemical stability | Mixture is chemically stable under normal conditions of storage and use. |
| 10.3 Possibility of hazardous reactions | Not known. |
| 10.4 Conditions to avoid | Stable under normal conditions. Avoid moisture. |
| 10.5 Incompatible materials | Strong oxidative compounds. |
| 10.6 Hazardous decomposition products | No dangerous decomposition products under normal use. If fire is involved: Incomplete combustion and thermolysis at high temperatures may produce toxic, irritating and flammable decomposition products (such as carbon monoxide, carbon dioxide, soot, aldehydes and other products of organic compounds decomposition). |

SECTION 11: TOXICOLOGICAL INFORMATION

| | |
|--|---|
| 11.1 Information on toxicological effects | Based on composition, no adverse effects for human health are expected for the mixture; therefore the mixture is not considered as dangerous for human health. There are no hazards under normal use conditions. |
| a) <i>Acute toxicity</i> | Based on available data, the classification criteria are not met. |
| b) <i>Irritation</i> | Based on available data, the classification criteria are not met. If the container is opened, released powder may cause slight irritation of respiratory tract. |
| c) <i>Corrosivity</i> | Based on available data, the classification criteria are not met. |
| d) <i>Sensitization</i> | Based on available data, the classification criteria are not met. Compounds have no sensitization effects. |
| e) <i>Repeated Dose Toxicity</i> | Based on available data, the classification criteria are not met. Based on composition, applicable doses not expected to have specific toxicity following repeated exposure. In a study in rats (H. Muhle) by chronic inhalation exposure to a typical toner. A mild to moderate degree of lung fibrosis in 92% of the rats in the concentration(16mg/m ³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle (4mg/ m ³) exposure group. But no pulmonary changes were reported in the lowest (1mg/ m ³) exposure group, the most relevant level to potential human exposures. |
| f) <i>Carcinogenicity</i> | Based on available data, the classification criteria are not met. Compounds have no potential for carcinogenicity. |
| g) <i>Mutagenicity</i> | Based on available data, the classification criteria are not met. Compounds have no potential mutagenicity. |



MATERIAL SAFETY DATA SHEET

according to §6 NR SR No. 67/2010 Coll. (Chemical Law), Regulation EC No. 1907/2006 (REACH), Regulation EC 1207/2008 (CLP) and Commission Regulation EU No. 453/2010

| | | | | |
|---------------------|---|----------------|--|----------|
| Name of the product | Toner cartridge ColorWay of series „M“ | | | page |
| Issue date: | 1. 6. 2016 | Revision date: | | - 9/11 - |

- h) *Toxicity for reproduction*
Based on available data, the classification criteria are not met. Compounds have no potential for reproductive toxicity.

SECTION 12: ECOLOGICAL INFORMATION

Based on composition, no adverse effects in the environment are expected for the mixture; therefore the mixture is not considered as dangerous for the environment.

| | |
|--|--|
| 12.1 Toxicity | Not determined for the mixture. Based on composition, no adverse effects in the environment are expected for the mixture. |
| 12.2 Persistence and degradability | Information for the mixture not available. |
| 12.3 Bioaccumulative potential | Information for the mixture not available. Based on composition, bioaccumulation is not expected. |
| 12.4 Mobility in soil | Insoluble in water. Based on physic-chemical properties mobility in soil not expected. |
| 12.5 Results of PBT and vPvB assessment | The mixture is not fulfilling criteria for PBT or vPvB according to Annex XIII, Regulation EC No. 1272/2008. Compounds are not listed on the Candidate list of Substances of Very High Concern (SVHC). |
| 12.6 Other adverse effects | Not known. |

SECTION 13: DISPOSAL CONSIDERATIONS

| | |
|-------------------------------------|--|
| 13.1 Waste treatment methods | <p>It is recommended to dispose all rests in authorized dangerous waste facility. Disposal has to comply all requirements of the Act No. 223/2001 Coll. (SK) on wastes.</p> <p><u>Substance or mixture disposal methods:</u> Dispose in accordance with the valid waste legislation as dangerous waste. Do not dispose as a common household waste. Dispose in a certified hazardous waste facility. According to the European Waste Catalogue waste codes are not specific for product, but for its use. Therefore, appropriate waste code should assign final user according to his specific use.</p> <p>Proposed waste classification, based on common use: 08 03 WASTES FROM MFSU OF PRINTING INKS Waste type name: waste printing toner other than those mentioned in 08 03 17 Waste catalog code according to Degree No. 284/2001 Coll.: 08 03 18 Waste category: O (not hazardous)</p> <p><u>Contaminated packages disposal methods:</u> Dispose in accordance with the valid waste legislation as dangerous waste.</p> <p>Proposed waste classification, based on common use: 15 01 packaging (including separately collected municipal packaging waste) Waste type name: paper and cardboard packaging / plastic packaging Waste catalog code for empty package according to Degree No. 284/2001 Coll.: 15 01 01 / 15 01 02 Waste category: O (not hazardous)</p> |
|-------------------------------------|--|

SECTION 14: TRANSPORT INFORMATION

The mixture **is not** classified as dangerous for transport according to ADR/RID/IMDG/ICAO/IATA.

| | | | | |
|-------------------------------------|---------------------------|---------------------------|--|--------------------------------|
| 14.1 UN Number - | | | | |
| 14.2 UN proper shipping name | | | | |
| | <i>Road transport ADR</i> | <i>Rail transport RID</i> | <i>International maritime transport IMDG</i> | <i>Air transport ICAO/IATA</i> |



MATERIAL SAFETY DATA SHEET

according to §6 NR SR No. 67/2010 Coll. (Chemical Law), Regulation EC No. 1907/2006 (REACH), Regulation EC 1207/2008 (CLP) and Commission Regulation EU No. 453/2010

| | | | | |
|---------------------|---|----------------|---------------|-----------|
| Name of the product | Toner cartridge ColorWay of series „M“ | | | page |
| Issue date: | 1. 6. 2016 | Revision date: | Version.: 1.1 | - 10/11 - |

| | | | | |
|------|--|---------------------------|--|--------------------------------|
| 14.3 | Transport hazard class(es) | | | |
| | <i>Road transport ADR</i> | <i>Rail transport RID</i> | <i>International maritime transport IMDG</i> | <i>Air transport ICAO/IATA</i> |
| | - | - | - | - |
| | Classification code | | | |
| | - | - | - | - |
| | Hazard identification number (Kemler) | | | |
| | - | - | - | - |
| | Labels | | | |
| | - | - | - | - |
| | Other notes | | | |
| | - | - | - | - |
| 14.4 | Packing group | | | |
| | <i>Road transport ADR</i> | <i>Rail transport RID</i> | <i>International maritime transport IMDG</i> | <i>Air transport ICAO/IATA</i> |
| | - | - | - | - |
| 14.5 | Environmental hazards: no | | | |
| 14.6 | Special precautions for user: not required | | | |
| 14.7 | Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: not transported | | | |

SECTION 15: REGULATORY INFORMATION

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

Relevant legislation European Union:

- Act No 67/2010 on conditions applicable to the placing on the market of chemical substances and chemical mixtures, amending certain acts (Chemicals Act)
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council, concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- Regulation EC No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- Commission Regulation (ES) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- Commission Directive 2013/10/EU of 19 March 2013 amending Council Directive 75/324/EEC on the approximation of the laws of the Member States relating to aerosol dispensers in order to adapt its labelling provisions to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Directive 1999/45/EC of the European Parliament and of the Council of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations
- Council Directive 67/548/EEC of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances
- Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work
- Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC
- Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC
- Council Directive 1999/13/EC of 11 March 1999 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain activities and installations

Relevant local legislation:

- Zákon č. 67/2010 Z.z., o podmienkach uvedenia chemických látok a chemických zmesí na trh a o zmene a doplnení niektorých zákonov (chemický zákon)
- Výnos MH SR 3/2010, ktorým sa ustanovujú podrobnosti o všeobecných požiadavkách na klasifikáciu, označovanie a balenie nebezpečných látok a zmesí



MATERIAL SAFETY DATA SHEET

according to §6 NR SR No. 67/2010 Coll. (Chemical Law), Regulation EC No. 1907/2006 (REACH), Regulation EC 1207/2008 (CLP) and Commission Regulation EU No. 453/2010

| | | | | |
|---------------------|--|----------------|--|-----------|
| Name of the product | Toner cartridge ColorWay of series „M“ | | | page |
| Issue date: | 1. 6. 2016 | Revision date: | | - 11/11 - |

- Zákon č. 124/2006 Z. z. o bezpečnosti a ochrane zdravia pri práci a o zmene a doplnení niektorých zákonov v znení zákona č. 309/2007 Z. z., zákona č. 140/2008 Z. z., zákona č. 132/2010 Z. z. a zákona č. 136/2010 Z. z..
- Zákon NR SR č. 355/2007 Z.z., o ochrane, podpore a rozvoji verejného zdravia a o zmene a doplnení niektorých zákonov, v znení neskorších predpisov
- Nariadenie vlády SR 471/2011 Z.z., ktorým sa mení nariadenie vlády Slovenskej republiky č. 355/2006 Z. z. o ochrane zamestnancov pred rizikami súvisiacimi s expozíciou chemickým faktorom pri práci, Príloha č.1
- Zákon č. 223/2001 o odpadoch a o zmene a doplnení niektorých zákonov z 15. mája 2001, v znení neskorších predpisov (773/2004 Z.z.).
- Vyhláška Ministerstva životného prostredia SR č. 284/2001 Z.z. z 11. júna 2001, ktorou sa ustanovuje Katalóg odpadov.
- Výnos MH SR č. 3/2010, ktorým sa ustanovujú podrobnosti o všeobecných požiadavkách na klasifikáciu, označovanie a balenie nebezpečných látok a zmesí
- Vyhláška MV SR č. 96/2004 Z.z., ktorou sa ustanovujú zásady protipožiarnej bezpečnosti pri manipulácii a skladovaní horľavých kvapalín, ťažkých vykurovacích olejov a rastlinných a živočíšnych tukov a olejov
- Zákon č. 137/2010 Z. z. o ovzduší
- Vyhláška MŽP SR č. 410/2012 Z. z., ktorou sa vykonávajú niektoré ustanovenia zákona o ovzduší
- Vyhláška Ministerstva pôdohospodárstva, životného prostredia a regionálneho rozvoja Slovenskej republiky č. 358/2010 Z.z., ktorou sa ustanovujú emisné limity, technické požiadavky a všeobecné podmienky prevádzkovania zdrojov a ich zariadení, v ktorých sa používajú organické rozpúšťadlá, a monitorovanie ich emisií

15.2 Chemical safety assessment
Chemical safety assessment not carried yet

SECTION 16: OTHER INFORMATION

- a) *Changes made to the previous version of the safety data sheet*
not relevant – the first issue, version 1.0
- b) *Key or legend to abbreviations and acronyms used in the safety data sheet*
- | | |
|-------------|--|
| Exp. lim. | Exposure limit |
| NPEL | The highest permissible exposure limit |
| OEL | Occupational exposure limit |
| PBT | Substances persistent, bioaccumulative and toxic |
| vPvB | Substances very persistent and very bioaccumulative |
| VOC | Volatile organic compound |
| DNEL | Derived No Effect Level |
| PNEC | Predicted No Effect Concentration |
| PBT | Substances persistent, bioaccumulative and toxic |
| LD50 / LC50 | Lethal dose / concentration affecting 50% of tested population |
- c) *Key literature references and sources for data*
Original manufacturer Material Safety Data Sheet Toner cartridge ColorWay (GROSS COMPANY LIMITED, LTD, Hong Kong), version 27. 3. 2014.
- d) *Methods of evaluating information used for the purpose of classification*
The mixture was classified by expert judgment and conventional calculations methods in accordance with the Direction 1999/45/EC.
- e) *Full wording of used Risk Phrases (R-phrases) and Hazard Statements (H-phrases)*
Not applied.
- f) *Advice on any training appropriate for workers*
Not required.
- g) *Other information*
Material Safety Data Sheet is compiled in accordance with the Law 67/2010 Coll. (Slovak Republic), Regulation EC 1907/2006 (REACH), Regulation EC 1272/2008 (CLP) and Commission Regulation EC 453/2010. Material Safety Data Sheet contains information on safe use, occupational health protection, and environmental protection. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. This particular information applies on the product as supplied and may not be valid in mixtures with other substances. If used for other purposes as identified in this MSDS, the distributor is not liable for any damage.
The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfill his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.
Compiled: PharmDr. Vladimír Végh, PHARMIS, Sasinkova 1, Holič. www.pharmis.sk