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SAFETY DATA SHEET

100/108/150/160 Cyan Cartridge:14N0900

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

| 1.1 Product identifier   |     |   |
|--|-----|---|
| Product name   | :   | 100/108/150/160 Cyan Cartridge:14N0900  |
| Description of the product t   | ype | e: Part number :  |
| 100<br>100A<br>100XL<br>100XLA<br>108<br>108XL<br>108XLA<br>150<br>150XL<br>150XLA<br>160<br>160XL<br>160XLA   |     | 14N0900 (A,E)<br>14N0920 (A,E)<br>14N1069 (A,E)<br>14N1093 (A,E)<br>14N0477 (A,E)<br>14N0482 (A,E)<br>14N1608 (A,E)<br>14N1608 (A,E)<br>14N1615 (A,E) 14N1793<br>14N1642 (A,E) 14N1797<br>14N1860 (A,E)<br>14N1875 (A,E)<br>14N1895 (A,E) |
| REACH Status   | :   | EU (REACH): All components of the toner formulation are registered, pre-registered or exempt under REACH. Pre-registered chemicals will be registered between 2011 and 2018.  |
| Product type   | :   | Liquid.   |
| 1.2 Relevant identified uses of<br>Product use<br>Area of application  | :   | he substance or mixture and uses advised against<br>Inkjet printer<br>Consumer applications, Industrial applications.   |
| <ul> <li>1.3 Details of the supplier of the supplice of th</li></ul> |     | safety data sheet<br>caldwell@lexmark.com   |
| 1.4 Emergency telephone num<br>Supplier<br>Telephone number  |     | Informations :1-859-232-3000  |
| Hours of operation   | :   | Emergency :1-859-232-3333<br>24/7   |

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture Product definition : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Not classified. Ingredients of unknown toxicity: \*

| Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)<br>100/108/150/160 Cyan Cartridge:14N0900 |   |  |
|---|---|--|
| SECTION 2: Hazard   | s identification  |  |
| Ingredients of unknown<br>ecotoxicity   | : Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 3%                             |  |
| Classification according to   | o Directive 1999/45/EC [DPD]  |  |
| The product is not classifie  | d as dangerous according to Directive 1999/45/EC and its amendments.  |  |
| Classification  | : Not classified.   |  |
| See Section 16 for the full te  | ext of the R phrases or H statements declared above.  |  |
| See Section 11 for more det   | ailed information on health effects and symptoms.   |  |
|   |   |  |
| 2.2 Label elements  |   |  |
| Hazard pictograms   | : Not applicable.   |  |
| Signal word   | : No signal word.   |  |
| Hazard statements   | : No known significant effects or critical hazards.   |  |
| <b>Precautionary statements</b>   |   |  |
| Prevention  | : Not applicable.   |  |
| Response  | : Not applicable.   |  |
| Storage   | : Not applicable.   |  |
| Disposal  | : Not applicable.   |  |
| Lesendous in modiente   |   |  |
| Hazardous ingredients   | : Not applicable.   |  |
| Supplemental label elements   | : Contains 2,2',2"-nitrilotriethanol. May produce an allergic reaction. Safety data sheet available for professional user on request. |  |
| 2.3 Other hazards   |   |  |

Other hazards which do : Not available. not result in classification

# **SECTION 3: Composition/information on ingredients**

| Substance/mixture  | : Mixture                      |      |  |  |      |
|--|--------------------------------|------|--|--|------|
|  |                                |      | Class  | ification  |      |
| Product/ingredient<br>name                                 | Identifiers                    | %    | 67/548/EEC   | Regulation (EC) No.<br>1272/2008 [CLP]   | Туре |
| Water Soluble Organic<br>Solvent [NJTSRN<br>80100451-5051] | -                              | 5-10 | Xi; R38  | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319  | [1]  |
| Water Soluble Organic<br>Solvent [NJTSRN<br>80100451-5054] | -                              | 5-10 | Not classified.  | Not classified.  | [2]  |
| 2,2',2"-nitrilotriethanol                                  | EC: 203-049-8<br>CAS: 102-71-6 | <1   | Xi; R41, R37/38  | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>STOT SE 3, H335 | [1]  |
|  |                                |      | See section 16 for<br>the full text of the R-<br>phrases declared<br>above | See Section 16 for the<br>full text of the H<br>statements declared<br>above.      |      |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Type

100/108/150/160 Cyan Cartridge:14N0900

# **SECTION 3: Composition/information on ingredients**

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

Occupational exposure limits, if available, are listed in Section 8.

# **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

| Eye contact                | : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.   |
|----------------------------|---|
| Inhalation                 | : Remove victim to fresh air and keep at rest in a position comfortable for breathing.<br>Get medical attention if symptoms occur. In case of inhalation of decomposition<br>products in a fire, symptoms may be delayed. The exposed person may need to be<br>kept under medical surveillance for 48 hours.                                  |
| Skin contact               | : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.  |
| Ingestion                  | : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| Protection of first-aiders | : No action shall be taken involving any personal risk or without suitable training.  |

#### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects : No known significant effects or critical hazards. Eye contact Inhalation : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. Skin contact : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards. **Over-exposure signs/symptoms** : No specific data. Eye contact Inhalation : No specific data. Skin contact : No specific data. Ingestion : No specific data. 4.3 Indication of any immediate medical attention and special treatment needed : In case of inhalation of decomposition products in a fire, symptoms may be delayed. Notes to physician The exposed person may need to be kept under medical surveillance for 48 hours. Specific treatments : No specific treatment.

# **SECTION 5: Firefighting measures**

| 5.1 Extinguishing media<br>Suitable extinguishing<br>media | : Use an extinguishing agent suitable for the surrounding fire. |
|--|---|
| Unsuitable extinguishing media                             | : None known.   |

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the : In a fire or if heated, a pressure increase will occur and the container may burst. substance or mixture

# **SECTION 5: Firefighting measures**

| Hazardous combustion products | : | Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide<br>nitrogen oxides<br>metal oxide/oxides |
|-------------------------------|---|---|
|                               |   |   |

| 5.3 Advice for firefighters                       |   |   |
|---|---|---|
| Special precautions for<br>fire-fighters          | : | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.   |
| Special protective<br>equipment for fire-fighters | : | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |

# **SECTION 6: Accidental release measures**

| 6.1 Personal precautions, pro  | ote | ctive equipment and emergency procedures   |
|--------------------------------|-----|--|
| For non-emergency<br>personnel | :   | No action shall be taken involving any personal risk or without suitable training.<br>Evacuate surrounding areas. Keep unnecessary and unprotected personnel from<br>entering. Do not touch or walk through spilt material. Put on appropriate personal<br>protective equipment. |
| For emergency responders       | :   | If specialised clothing is required to deal with the spillage, take note of any  |

| or emergency responders : If spec | ialised clothing is required to deal with the spillage, take note of any                                      |
|-----------------------------------|---|
|                                   | ation in Section 8 on suitable and unsuitable materials. See also the ation in "For non-emergency personnel". |

**6.2 Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### 6.3 Methods and materials for containment and cleaning up

| Small spill                     | : Stop leak if without risk. Move containers from spill area. Dilute with water and mop<br>up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry<br>material and place in an appropriate waste disposal container. Dispose of via a<br>licensed waste disposal contractor.   |
|---------------------------------|--|
| Large spill                     | : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal. |
| 6.4 Reference to other sections | : See Section 1 for emergency contact information.<br>See Section 8 for information on appropriate personal protective equipment.<br>See Section 13 for additional waste treatment information.  |

# SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

| Protective measures                    | : Put on appropriate personal protective equipment (see Section 8).   |
|--|---|
| Advice on general occupational hygiene | : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |

# **SECTION 7: Handling and storage**

| 7.2 Conditions for safe<br>storage, including any<br>incompatibilities | : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. |
|--|---|
| 7.3 Specific end use(s)  |   |
| Recommendations  | : Not available.  |
| Industrial sector specific<br>solutions                                | : Not available.  |

# **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 8.1 Control parameters

#### Occupational exposure limits

| Product/ingredient name  |     | ame   | Exposure limit values   |  |  |
|--|-----|---|---|--|--|
| Water Soluble Organic Solvent [NJTSRN 80100451-5054]                           |     | NJTSRN  | EH40/2005 WELs (United Kingdom (UK), 8/2007).<br>TWA: 10 mg/m <sup>3</sup> 8 hour(s). Form: Particulate<br>TWA: 150 ppm 8 hour(s). Form: Sum of vapour and particulates<br>TWA: 474 mg/m <sup>3</sup> 8 hour(s). Form: Sum of vapour and particulates   |  |  |
| procedures atmosphere or loof the ventilation protective equip methods for the |     | atmosphere or b<br>of the ventilation<br>protective equip<br>methods for the<br>national guidance | ontains ingredients with exposure limits, personal, workplace<br>biological monitoring may be required to determine the effectiveness<br>of or other control measures and/or the necessity to use respiratory<br>ment. Reference should be made to European Standard EN 689 for<br>assessment of exposure by inhalation to chemical agents and<br>ce documents for methods for the determination of hazardous |  |  |
| Derived effect levels<br>No DELs available.                                    |     |   |   |  |  |
| Predicted effect concentrati   | ons |   |   |  |  |
| No PECs available.   |     | -   |   |  |  |
| .2 Exposure controls   |     |   |   |  |  |
| Appropriate engineering<br>controls  | :   | control worker of ingredients with  | tilation requirements. Good general ventilation should be sufficient to exposure to airborne contaminants. If this product contains in exposure limits, use process enclosures, local exhaust ventilation or ng controls to keep worker exposure below any recommended or   |  |  |
| Individual protection measu  | res | <u>.</u>  |   |  |  |
| Hygiene measures   | :   | eating, smoking<br>Appropriate tec<br>Wash contamin   | prearms and face thoroughly after handling chemical products, before<br>g and using the lavatory and at the end of the working period.<br>chniques should be used to remove potentially contaminated clothing.<br>nated clothing before reusing. Ensure that eyewash stations and<br>are close to the workstation location.   |  |  |
| Eye/face protection  | :   |   | r complying with an approved standard should be used when a risk<br>dicates this is necessary to avoid exposure to liquid splashes, mists,  |  |  |
| Skin protection  |     |   |   |  |  |
| Hand protection  | :   |   | tant, impervious gloves complying with an approved standard should<br>mes when handling chemical products if a risk assessment indicates<br>ry.   |  |  |

# **SECTION 8: Exposure controls/personal protection**

| Body protection                 | : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.   |
|---------------------------------|---|
| Other skin protection           | : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.   |
| Respiratory protection          | : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.               |
| Environmental exposure controls | : Emissions from ventilation or work process equipment should be checked to ensure<br>they comply with the requirements of environmental protection legislation. In some<br>cases, fume scrubbers, filters or engineering modifications to the process<br>equipment will be necessary to reduce emissions to acceptable levels. |

# **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

| Appearance                                      |   |  |
|---|---|--|
| Physical state                                  | : | Liquid.  |
| Colour  | : | Cyan   |
| Odour   | 1 | Faint odour.   |
| Odour threshold                                 | : | Not available.   |
| рН  | : | 7 to 8.5   |
| Melting point/freezing point                    | 1 | O°O  |
| Initial boiling point and boiling range         | : | Not available.   |
| Flash point                                     |   | Not available.   |
| Evaporation rate                                | : | Not available.   |
| Flammability (solid, gas)                       | : | Not available.   |
| Burning time                                    | : | Not applicable.  |
| Burning rate                                    | : | Not applicable.  |
| Upper/lower flammability or<br>explosive limits | : | Not available.   |
| Vapour pressure                                 | : | Not available.   |
| Vapour density                                  | : | Not available.   |
| Relative density                                | : | Not available.   |
| Solubility(ies)                                 | : | Easily soluble in the following materials: cold water and hot water. |
| Partition coefficient: n-<br>octanol/water      | : | Not available.   |
| Auto-ignition temperature                       | : | Not available.   |
| Decomposition temperature                       | 1 | Not available.   |
| Viscosity                                       | : | Not available.   |
| Explosive properties                            | : | Not available.   |
| Oxidising properties                            | : | Not available.   |
|   |   |  |

#### 9.2 Other information

No additional information.

| -  |   |  |  |  |
|--|---|--|--|--|
| SECTION 10: Stability and reactivity     |   |  |  |  |
| 10.1 Reactivity                          | : No specific test data related to reactivity available for this product or its ingredients.              |  |  |  |
| 10.2 Chemical stability                  | : The product is stable.  |  |  |  |
| 10.3 Possibility of hazardous reactions  | : Under normal conditions of storage and use, hazardous reactions will not occur.                         |  |  |  |
| 10.4 Conditions to avoid                 | : No specific data.   |  |  |  |
| 10.5 Incompatible materials              | : Reactive or incompatible with the following materials: oxidizing materials and acids. No specific data. |  |  |  |
| 10.6 Hazardous<br>decomposition products | : Under normal conditions of storage and use, hazardous decomposition products should not be produced.    |  |  |  |
|  |   |  |  |  |

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### Acute toxicity

| Product/ingredient name                   | Result         | Species | Dose        | Exposure |
|---|----------------|---------|-------------|----------|
| 100/108/150/160 Cyan<br>Cartridge:14N0900 | LD50 Oral      | Rat     | >2000 mg/kg | -        |
| Conclusion/Summary                        | Not available. |         |             |          |

# Acute toxicity estimates

Not available.

#### Irritation/Corrosion

| Product/ingredient name                                     | Result                        | Species  | Score | Exposure                 | Observation  |
|---|-------------------------------|----------|-------|--------------------------|--------------|
| Water Soluble Organic<br>Solvent [NJTSRN 80100451-<br>5051] | Skin - Moderate irritant      | Human    | -     | 168 hours<br>100 Percent | -            |
|   | Skin - Moderate irritant      | Human    | -     | 48 hours 100<br>Percent  | -            |
| Conclusion/Summary  |                               | ·        | •     |                          |              |
| Skin  | : Non-irritating to the skin. |          |       |                          |              |
| Eyes  | : Non-irritating to the eyes. |          |       |                          |              |
| <u>Sensitiser</u>   |                               |          |       |                          |              |
| Conclusion/Summary  |                               |          |       |                          |              |
| Skin  | : Not sensitizing             |          |       |                          |              |
| <u>Mutagenicity</u>   |                               |          |       |                          |              |
| Conclusion/Summary  | : Not available.              |          |       |                          |              |
| Carcinogenicity   |                               |          |       |                          |              |
| Conclusion/Summary  | : Not available.              |          |       |                          |              |
| Reproductive toxicity                                       |                               |          |       |                          |              |
| Conclusion/Summary  | : Not available.              |          |       |                          |              |
| Teratogenicity  |                               |          |       |                          |              |
| Conclusion/Summary  | : Not available.              |          |       |                          |              |
| Specific target organ toxicit                               | y (single exposure)           |          |       |                          |              |
| Product/ingr  | edient name                   | Category | Ro    | ute of T                 | arget organs |

| Product/ingredient name   | Category   | Route of exposure | Target organs                |
|---------------------------|------------|-------------------|------------------------------|
| 2,2',2"-nitrilotriethanol | Category 3 | Not determined    | Respiratory tract irritation |

# SECTION 11: Toxicological information

Specific target organ toxicity (repeated exposure) Not available. **Aspiration hazard** Not available. Information on the likely : Routes of entry anticipated:Oral, Dermal. routes of exposure Potential acute health effects Inhalation : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards. **Skin contact** : No known significant effects or critical hazards. Eye contact Symptoms related to the physical, chemical and toxicological characteristics : No specific data. Inhalation Ingestion : No specific data. Skin contact : No specific data. : No specific data. Eve contact Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure **Potential immediate** : Not available. effects Potential delayed effects : Not available. Long term exposure **Potential immediate** : Not available. effects Potential delayed effects : Not available. **Potential chronic health effects** Not available. : Not available. **Conclusion/Summary** General : No known significant effects or critical hazards. Carcinogenicity : No known significant effects or critical hazards. **Mutagenicity** : No known significant effects or critical hazards. **Teratogenicity** : No known significant effects or critical hazards. **Developmental effects** : No known significant effects or critical hazards. : No known significant effects or critical hazards. **Fertility effects** Other information : Not available.

# SECTION 12: Ecological information

#### 12.1 Toxicity

| Product/ingredient name                                     | Result  | Species                                    | Exposure             |
|---|---|--|----------------------|
| Water Soluble Organic<br>Solvent [NJTSRN 80100451-<br>5051] | Acute EC50 7417000 to 8555000 ug/L<br>Fresh water           | Daphnia - Daphnia magna - 6 to<br>24 hours | 48 hours             |
| 2,2',2"-nitrilotriethanol                                   | Acute EC50 609.98 to 658.3 mg/L<br>Acute LC50 >100000 ug/L  | Daphnia<br>Crustaceans                     | 48 hours<br>48 hours |
| Conclusion/Summary  | : No significant toxicity to wastewater to<br>Toxicity Test | reatment organisms. Aerobic HA-5           | 0 Bacterial          |

#### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

# **SECTION 12: Ecological information**

# Product/ingredient name LogPow BCF Potential Water Soluble Organic<br/>Solvent [NJTSRN 80100451-<br/>5051] -1.04 Iow

| 12.4 Mobility in soil<br>Soil/water partition<br>coefficient (K <sub>oc</sub> ) | : Not available.  |
|---|-------------------|
| Mobility  | : Not available.  |
| 12.5 Results of PBT and v   | PvB assessment    |
| PBT   | : Not applicable. |
| vPvB  | : Not applicable. |
|   |                   |

**12.6 Other adverse effects** : No known significant effects or critical hazards.

# **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

| Product             |   |
|---------------------|---|
| Methods of disposal | : The generation of waste should be avoided or minimised wherever possible.<br>Significant quantities of waste product residues should not be disposed of via the<br>foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus<br>and non-recyclable products via a licensed waste disposal contractor. Disposal of<br>this product, solutions and any by-products should at all times comply with the<br>requirements of environmental protection and waste disposal legislation and any<br>regional local authority requirements. |
| Hazardous waste     | <ul> <li>Within the present knowledge of the supplier, this product is not regarded as<br/>hazardous waste, as defined by EU Directive 91/689/EEC.</li> </ul>   |
| Packaging           |   |
| Methods of disposal | : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.  |
| Special precautions | : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.   |

# **SECTION 14: Transport information**

|                                    | ADR/RID               | ADN/ADNR       | IMDG           | ΙΑΤΑ           |
|------------------------------------|-----------------------|----------------|----------------|----------------|
| 14.1 UN number                     | Not regulated.        | Not regulated. | Not regulated. | Not regulated. |
| 14.2 UN proper<br>shipping name    | -                     | -              | -              | -              |
| 14.3 Transport<br>hazard class(es) | -                     | -              | -              | -              |
| 14.4 Packing<br>group              | -                     | -              | -              | -              |
|                                    | of revision : 1 April |                |                |                |

| 100/108/150/160 Cyan Cartridge:14N0900<br>SECTION 14: Transport information |                |                |                |                |  |  |
|---|----------------|----------------|----------------|----------------|--|--|
|   |                |                |                |                |  |  |
| 14.6 Special precautions for user   | Not available. | Not available. | Not available. | Not available. |  |  |
| Additional information  | -              | -              | -              | -              |  |  |

14.7 Transport in bulk: Not available.according to Annex II ofMARPOL 73/78 and the IBCCode

# **SECTION 15: Regulatory information**

| 15.1 Safety, health and enviro  | onmental regulations/legislation specific for the substance or mixture                       |
|---|--|
| EU Regulation (EC) No. 1907   | 7/2006 (REACH)   |
| Annex XIV - List of substar   | nces subject to authorisation  |
| Substances of very high o   | <u>concern</u>   |
| None of the components a  | ire listed.  |
| Annex XVII - Restrictions<br>on the manufacture,<br>placing on the market and<br>use of certain dangerous<br>substances, mixtures and<br>articles | : Not applicable.  |
| Other EU regulations  |  |
| Europe inventory  | : All components are listed or exempted.   |
| Black List Chemicals  | : Not listed   |
| Priority List Chemicals   | : Not listed   |
| Integrated pollution<br>prevention and control<br>list (IPPC) - Air   | : Not listed   |
| Integrated pollution<br>prevention and control<br>list (IPPC) - Water   | : Not listed   |
| International regulations   |  |
| Chemical Weapons<br>Convention List Schedule I<br>Chemicals   | : Not listed   |
| Chemical Weapons<br>Convention List Schedule II<br>Chemicals  | : Not listed   |
| Chemical Weapons<br>Convention List Schedule III<br>Chemicals   | : Not listed   |
| 15.2 Chemical Safety<br>Assessment  | : This product contains substances for which Chemical Safety Assessments are still required. |

100/108/150/160 Cyan Cartridge:14N0900

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

| Abbreviations and | : ATE = Acute Toxicity Estimate   |
|-------------------|---|
| acronyms          | CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. |
| -                 | 1272/2008]  |
|                   | DNEL = Derived No Effect Level  |
|                   | EUH statement = CLP-specific Hazard statement                                 |
|                   | PNEC = Predicted No Effect Concentration                                      |
|                   | RRN = REACH Registration Number   |

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification                            |   | Justification   |
|---|---|---|
| Not classified.                           |   |   |
| Full text of abbreviated H statements     | H319 Causes serious   | allergic skin reaction.   |
| Full text of classifications<br>[CLP/GHS] | : Eye Irrit. 2, H319<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>STOT SE 3, H335  | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2<br>SKIN CORROSION/IRRITATION - Category 2<br>SKIN SENSITIZATION - Category 1<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE<br>EXPOSURE) [Respiratory tract irritation] - Category 3 |
| Full text of abbreviated R phrases        | : R41- Risk of serious dam<br>R38- Irritating to skin.<br>R37/38- Irritating to respi | с <i>,</i>  |
| Full text of classifications<br>[DSD/DPD] | : Xi - Irritant   |   |
| Date of issue/ Date of revision           | : 1 April 2012  |   |
| Date of previous issue                    | : No previous validation  |   |
| Version                                   | : 1   |   |
| Notice to reader                          |   |   |

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



**SAFETY DATA SHEET** 

100/108/150/160 Magenta Cartridge PN: 14N0901

# **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

| 1.1 Product identifier   |     |             |   |
|--|-----|-------------|---|
| Product name   | :   | 100/108     | 8/150/160 Magenta Cartridge PN: 14N0901   |
| Description of the product t   | ype | •:          | Part number :   |
| 100<br>100A<br>100XL<br>100XLA<br>108<br>108XL<br>108XLA<br>150<br>150XL<br>150XLA<br>160<br>160XL<br>160XLA |     |             | 14N0901 (A,E)<br>14N0921 (A,E)<br>14N1070 (A,E)<br>14N1094 (A,E)<br>14N0340 (A,E)<br>14N0478 (A,E)<br>14N0483 (A,E)<br>14N1609 (A,E) 14N1794<br>14N1616 (A,E) 14N1798<br>14N1646 (A,E)<br>14N1865 (A,E)<br>14N1880 (A,E)<br>14N1800 (A,E) |
| REACH Status   |     |             | ACH): All components of the toner formulation are registered, pre-registered apt under REACH. Pre-registered chemicals will be registered between 2011 8.   |
| Product type   | :   | Liquid.     |   |
| 1.2 Relevant identified uses of<br>Product use<br>Area of application  | :   | Inkjet pr   | tance or mixture and uses advised against<br>inter<br>ner applications.   |
| <b>1.3 Details of the supplier of</b><br>Lexmark International, Inc.<br>740 West New Circle Road             | the | safety o    | data sheet  |
| Lexington, Ky 40550<br>e-mail address of person<br>responsible for this SDS                                  | :   | caldwell    | l@lexmark.com   |
| 1.4 Emergency telephone nu<br>Supplier   | mbo | er          |   |
| Telephone number   | 1   | Information | tions :1-859-232-3000   |
|  |     | Emerge      | ncy :1-859-232-3333   |
| Hours of operation   | ÷   | 24/7        |   |

# **SECTION 2: Hazards identification**

| 2.1 Classification of the sub                  | ostance or mixture  |
|--|---|
| Product definition                             | : Mixture   |
| Classification according to<br>Not classified. | o Regulation (EC) No. 1272/2008 [CLP/GHS]   |
| Ingredients of unknown toxicity                | : Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 10.5%                        |
| Ingredients of unknown ecotoxicity             | : Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 6% |
| Classification according to                    | o Directive 1999/45/EC [DPD]  |
| The product is not classifie                   | d as dangerous according to Directive 1999/45/EC and its amendments.                                      |
| Classification                                 | : Not classified.   |
| See Section 16 for the full te                 | ext of the R phrases or H statements declared above.  |
| See Section 11 for more det                    | tailed information on health effects and symptoms.  |
| 2.2 Label elements                             |   |
| Hazard pictograms                              | : Not applicable.   |
| Signal word                                    | : No signal word.   |
| Hazard statements                              | : No known significant effects or critical hazards.   |
|  |   |

| Precautionary statements |                   |
|--------------------------|-------------------|
| Prevention               | : Not applicable. |
| Response                 | : Not applicable. |
| Storage                  | : Not applicable. |
| Disposal                 | : Not applicable. |

| Hazardous ingredients: Not applicable.Supplemental label<br>elements: Contains 2,2',2"-nitrilotriethanol. May produce an allergic reaction. Safety day<br>sheet available for professional user on request. | а |
|---|---|
|---|---|

2.3 Other hazards Other hazards which do : Not available. not result in classification

# **SECTION 3: Composition/information on ingredients**

Substance/mixture

#### : Mixture

|  |                                |      | Classification   |  |      |
|--|--------------------------------|------|--|--|------|
| Product/ingredient<br>name                                 | Identifiers                    | %    | 67/548/EEC   | Regulation (EC) No.<br>1272/2008 [CLP]   | Туре |
| Water Soluble Organic<br>Solvent [NJTSRN<br>80100451-505]  | -                              | 5-10 | Xi; R38  | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319  | [1]  |
| Water Soluble Organic<br>Solvent [NJTSRN<br>80100451-5052] | -                              | 3-7  | Xn; R22  | Acute Tox. 4, H302   | [1]  |
| 2,2',2"-nitrilotriethanol                                  | EC: 203-049-8<br>CAS: 102-71-6 | <1   | Xi; R41, R37/38  | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>STOT SE 3, H335 | [1]  |
|  |                                |      | See section 16 for<br>the full text of the R-<br>phrases declared<br>above | See Section 16 for the<br>full text of the H<br>statements declared<br>above.      |      |

100/108/150/160 Magenta Cartridge PN: 14N0901

# **SECTION 3: Composition/information on ingredients**

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

Occupational exposure limits, if available, are listed in Section 8.

# **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

| Eye contact                | :   | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.   |
|----------------------------|-----|---|
| Inhalation                 | :   | Remove victim to fresh air and keep at rest in a position comfortable for breathing.<br>Get medical attention if symptoms occur.  |
| Skin contact               | :   | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.  |
| Ingestion                  | :   | Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| Protection of first-aiders | 1.1 | No action shall be taken involving any personal risk or without suitable training.  |

#### 4.2 Most important symptoms and effects, both acute and delayed

| Potential acute health | n effects   |
|------------------------|---|
| Eye contact            | : No known significant effects or critical hazards. |
| Inhalation             | : No known significant effects or critical hazards. |
| Skin contact           | : No known significant effects or critical hazards. |
| Ingestion              | : No known significant effects or critical hazards. |
| Over-exposure signs    | /symptoms   |
| Eye contact            | : No specific data.                                 |
| Inhalation             | : No specific data.                                 |
| Skin contact           | : No specific data.                                 |
| Ingestion              | : No specific data.                                 |

#### 4.3 Indication of any immediate medical attention and special treatment needed

| Notes to physician  | : Treat symptomatically. Contact poison treatment specialist immediately if large<br>quantities have been ingested or inhaled. |
|---------------------|--|
| Specific treatments | : No specific treatment.   |

# **SECTION 5: Firefighting measures**

| 5.1 Extinguishing media<br>Suitable extinguishing<br>media | : Use an extinguishing agent suitable for the surrounding fire. |
|--|---|
| Unsuitable extinguishing media                             | : None known.   |

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the : In a fire or if heated, a pressure increase will occur and the container may burst. substance or mixture

# **SECTION 5: Firefighting measures**

| Hazardous combustion<br>products | : | Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide |
|----------------------------------|---|--|
|                                  |   |  |

| 5.3 Advice for firefighters                       |   |   |
|---|---|---|
| Special precautions for<br>fire-fighters          | : | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.   |
| Special protective<br>equipment for fire-fighters | : | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |

# **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

| For non-emergency<br>personnel  | :   | No action shall be taken involving any personal risk or without suitable training.<br>Evacuate surrounding areas. Keep unnecessary and unprotected personnel from<br>entering. Do not touch or walk through spilt material. Put on appropriate personal<br>protective equipment.   |
|---------------------------------|-----|--|
| For emergency responders        | :   | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".  |
| 6.2 Environmental precautions   | :   | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains<br>and sewers. Inform the relevant authorities if the product has caused environmental<br>pollution (sewers, waterways, soil or air).  |
| 6.3 Methods and materials fo    | r c | ontainment and cleaning up   |
| Small spill                     | :   | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.  |
| Large spill                     | •   | Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal. |
| 6.4 Reference to other sections | :   | See Section 1 for emergency contact information.<br>See Section 8 for information on appropriate personal protective equipment.<br>See Section 13 for additional waste treatment information.  |

# **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

| Protective measures                    | : Put on appropriate personal protective equipment (see Section 8).   |
|--|---|
| Advice on general occupational hygiene | : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |

# **SECTION 7: Handling and storage**

| 7.2 Conditions for safe<br>storage, including any<br>incompatibilities | : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. |
|--|---|
| 7.3 Specific end use(s)  |   |
| Recommendations  | : Not available.  |
| and the second second second   | NEW AND A STATEMENT   |

Industrial sector specific : Not available. solutions

# **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 8.1 Control parameters

#### **Occupational exposure limits**

No exposure limit value known.

**Recommended monitoring** procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

#### **Derived effect levels**

No DELs available.

#### **Predicted effect concentrations**

No PECs available.

| 8.2 Exposure controls            |   |  |
|----------------------------------|---|--|
| Appropriate engineering controls | : No special ventilation requirements. Good general ventilation should be sufficient control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation other engineering controls to keep worker exposure below any recommended or statutory limits.                                   |  |
| Individual protection meas       | <u>es</u>   |  |
| Hygiene measures                 | : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothin Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. |  |
| Eye/face protection              | : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists gases or dusts.  |  |
| Skin protection                  |   |  |
| Hand protection                  | : Chemical-resistant, impervious gloves complying with an approved standard shoul be worn at all times when handling chemical products if a risk assessment indicate this is necessary.   |  |
| Body protection                  | : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.   |  |
| Other skin protection            | : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.   |  |
| Data of incurs/Data of revisio   | - 1 April 2012  |  |

# **SECTION 8: Exposure controls/personal protection**

| Respiratory protection          | : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and   |
|---------------------------------|---|
|                                 | the safe working limits of the selected respirator.   |
| Environmental exposure controls | : Emissions from ventilation or work process equipment should be checked to ensure<br>they comply with the requirements of environmental protection legislation. In some<br>cases, fume scrubbers, filters or engineering modifications to the process<br>equipment will be necessary to reduce emissions to acceptable levels. |

# **SECTION 9: Physical and chemical properties**

| 9.1 Information on basic physical and chemical properties |   |  |  |  |  |
|---|---|--|--|--|--|
| Appearance  |   |  |  |  |  |
| Physical state  | 1 | Liquid. [Ink Cartridge.]               |  |  |  |
| Colour  | 1 | Magenta                                |  |  |  |
| Odour   | 1 | Faint odour.                           |  |  |  |
| Odour threshold   | 1 | Not available.                         |  |  |  |
| рН  | 1 | 7 to 8.5                               |  |  |  |
| Melting point/freezing point                              | 1 | 0°C                                    |  |  |  |
| Initial boiling point and boiling range                   | : | Not available.                         |  |  |  |
| Flash point   | 1 | [Product does not sustain combustion.] |  |  |  |
| Evaporation rate  | : | Not available.                         |  |  |  |
| Flammability (solid, gas)                                 | 1 | Not available.                         |  |  |  |
| Burning time  | 1 | Not applicable.                        |  |  |  |
| Burning rate  | 1 | Not applicable.                        |  |  |  |
| Upper/lower flammability or<br>explosive limits           | : | Not available.                         |  |  |  |
| Vapour pressure   | : | Not available.                         |  |  |  |
| Vapour density  | : | Not available.                         |  |  |  |
| Relative density  | ÷ | Not available.                         |  |  |  |
| Solubility(ies)   | : | Not available.                         |  |  |  |
| Partition coefficient: n-<br>octanol/water                | : | Not available.                         |  |  |  |
| Auto-ignition temperature                                 | ÷ | Not available.                         |  |  |  |
| Decomposition temperature                                 | : | Not available.                         |  |  |  |
| Viscosity   | : | Not available.                         |  |  |  |
| Explosive properties                                      | ÷ | Not available.                         |  |  |  |
| Oxidising properties                                      | : | Not available.                         |  |  |  |
|   |   |  |  |  |  |

#### 9.2 Other information

Г

No additional information.

| SECTION 10: Stabil                         | ity and reactivity  |  |  |  |  |  |
|--|---|--|--|--|--|--|
| 10.1 Reactivity                            | No specific test data related to reactivity available for this product or its ingredients |  |  |  |  |  |
| 10.2 Chemical stability                    | : The product is stable.  |  |  |  |  |  |
| 10.3 Possibility of<br>hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur.         |  |  |  |  |  |
| 10.4 Conditions to avoid                   | : No specific data.   |  |  |  |  |  |
| Date of issue/Date of revision             | on : 1 April 2012 6/1   |  |  |  |  |  |

# SECTION 10: Stability and reactivity

#### **10.5 Incompatible materials** : Reactive or incompatible with the following materials: oxidizing materials. No specific data.

#### **10.6 Hazardous** decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### **Acute toxicity**

| Product/ingredient name                                    | Result         | Species | Dose        | Exposure |
|--|----------------|---------|-------------|----------|
| 100/108/150/160 Magenta<br>Cartridge PN: 14N0901           | LD50 Oral      | Rat     | >2000 mg/kg | -        |
| Water Soluble Organic<br>Solvent [NJTSRN<br>80100451-5052] | LD50 Oral      | Rat     | 2 g/kg      | -        |
| Conclusion/Summary   | Not available. |         |             |          |

**Conclusion/Summary** 

Acute toxicity estimates

Not available.

#### Irritation/Corrosion

| Product/ingredient name                                     | Result                        | Species | Score | Exposure                 | Observation |
|---|-------------------------------|---------|-------|--------------------------|-------------|
| Water Soluble Organic<br>Solvent [NJTSRN 80100451-<br>505]  | Skin - Moderate irritant      | Human   | -     | 168 hours<br>100 Percent | -           |
|   | Skin - Moderate irritant      | Human   | -     | 48 hours 100<br>Percent  | -           |
| Water Soluble Organic<br>Solvent [NJTSRN 80100451-<br>5052] | Skin - Mild irritant          | Rabbit  | -     | 495<br>milligrams        | -           |
| Conclusion/Summary  |                               |         |       |                          |             |
| Skin  | : Non-irritating to the skin. |         |       |                          |             |
| Eyes  | : Non-irritating to the eyes. |         |       |                          |             |
| <u>Sensitiser</u>   |                               |         |       |                          |             |
| Conclusion/Summary  |                               |         |       |                          |             |
| Skin  | : Not sensitizing             |         |       |                          |             |
| Mutagenicity  |                               |         |       |                          |             |
| Conclusion/Summary<br>Carcinogenicity                       | : Not available.              |         |       |                          |             |

**Conclusion/Summary** : Not available. Reproductive toxicity

#### **Conclusion/Summary** : Not available.

**Teratogenicity** 

: Not available. **Conclusion/Summary** 

#### Specific target organ toxicity (single exposure)

| Product/ingredient name   | Category   | Route of exposure | Target organs                |
|---------------------------|------------|-------------------|------------------------------|
| 2,2',2"-nitrilotriethanol | Category 3 | Not determined    | Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

# **SECTION 11: Toxicological information**

| Information on the likely routes of exposure | Routes of entry anticipated:Oral, Dermal.               |     |
|--|---|-----|
| Potential acute health effect                |   |     |
| Inhalation                                   | No known significant effects or critical hazards.       |     |
| Ingestion                                    | No known significant effects or critical hazards.       |     |
| Skin contact                                 | No known significant effects or critical hazards.       |     |
| Eye contact                                  | No known significant effects or critical hazards.       |     |
|  | cal, chemical and toxicological characteristics         |     |
| Inhalation                                   | No specific data.                                       |     |
| Ingestion                                    | No specific data.                                       |     |
| Skin contact                                 | No specific data.                                       |     |
| Eye contact                                  | No specific data.                                       |     |
| Delayed and immediate effe                   | and also chronic effects from short and long term expos | ure |
| Short term exposure                          |   |     |
| Potential immediate<br>effects               | Not available.  |     |
| Potential delayed effects                    | Not available.  |     |
| Long term exposure                           |   |     |
| Potential immediate<br>effects               | Not available.  |     |
| Potential delayed effects                    | Not available.  |     |
| Potential chronic health effe                | <u>3</u>  |     |
| Not available.                               |   |     |
| Conclusion/Summary                           | Not available.  |     |
| General                                      | No known significant effects or critical hazards.       |     |
| Carcinogenicity                              | No known significant effects or critical hazards.       |     |
| Mutagenicity                                 | No known significant effects or critical hazards.       |     |
| Teratogenicity                               | No known significant effects or critical hazards.       |     |
| <b>Developmental effects</b>                 | No known significant effects or critical hazards.       |     |
| Fertility effects                            | No known significant effects or critical hazards.       |     |
| Other information                            | Not available.  |     |

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

| Product/ingredient name                                    | Result  | Species                                    | Exposure             |
|--|---|--|----------------------|
| Water Soluble Organic<br>Solvent [NJTSRN 80100451-<br>505] | Acute EC50 7417000 to 8555000 ug/L<br>Fresh water           | Daphnia - Daphnia magna - 6 to<br>24 hours | 48 hours             |
| 2,2',2"-nitrilotriethanol                                  | Acute EC50 609.98 to 658.3 mg/L<br>Acute LC50 >100000 ug/L  | Daphnia<br>Crustaceans                     | 48 hours<br>48 hours |
| Conclusion/Summary   | : No significant toxicity to wastewater to<br>Toxicity Test | reatment organisms. Aerobic HA-5           | 0 Bacterial          |

#### 12.2 Persistence and degradability

Conclusion/Summary

: Not available.

#### **12.3 Bioaccumulative potential**

|   | Product/ingredient name       | LogPow         | BCF | Potential |
|---|-------------------------------|----------------|-----|-----------|
|   |                               |                |     |           |
| D | ate of issue/Date of revision | : 1 April 2012 | •   | 8/11      |

# **SECTION 12: Ecological information**

| Water Soluble Organic<br>Solvent [NJTSRN 80100451-<br>505] | -1.04 | - | low |
|--|-------|---|-----|

| 12.4 Mobility in soil                  |                   |
|--|-------------------|
| Soil/water partition coefficient (Koc) | : Not available.  |
| Mobility                               | : Not available.  |
| 12.5 Results of PBT and v              | PvB assessment    |
| PBT                                    | : Not applicable. |

| vPvB | : Not applicable. |
|------|-------------------|

**12.6 Other adverse effects** : No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### **13.1 Waste treatment methods**

| Product             |   |
|---------------------|---|
| Methods of disposal | : The generation of waste should be avoided or minimised wherever possible.<br>Significant quantities of waste product residues should not be disposed of via the<br>foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus<br>and non-recyclable products via a licensed waste disposal contractor. Disposal of<br>this product, solutions and any by-products should at all times comply with the<br>requirements of environmental protection and waste disposal legislation and any<br>regional local authority requirements. |
| Hazardous waste     | : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.   |
| Packaging           |   |
| Methods of disposal | : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.  |
| Special precautions | : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.   |

# **SECTION 14: Transport information**

|                                    | ADR/RID               | ADN/ADNR       | IMDG           | ΙΑΤΑ           |
|------------------------------------|-----------------------|----------------|----------------|----------------|
| 14.1 UN number                     | Not regulated.        | Not regulated. | Not regulated. | Not regulated. |
| 14.2 UN proper<br>shipping name    | -                     | -              | -              | -              |
| 14.3 Transport<br>hazard class(es) | -                     | -              | -              | -              |
| 14.4 Packing<br>group              | -                     | -              | -              | -              |
| 14.5<br>Environmental<br>hazards   | No.                   | No.            | No.            | No.            |
|                                    |                       |                |                |                |
| Date of issue/Date                 | of revision : 1 April | 2012           |                | 9/             |

| Conforms to Regulation (EC) No.       | 1907/2006 (REACH), Annex II - | United Kingdom (UK) |
|---------------------------------------|-------------------------------|---------------------|
| · · · · · · · · · · · · · · · · · · · |                               |                     |

# **SECTION 14: Transport information**

| SECTION 14: Transport Information       |                |                |                |                |
|---|----------------|----------------|----------------|----------------|
| 14.6 Special<br>precautions for<br>user | Not available. | Not available. | Not available. | Not available. |
| Additional information                  | -              | -              | -              | -              |

14.7 Transport in bulk: Not available.according to Annex II ofMARPOL 73/78 and the IBCCode

# **SECTION 15: Regulatory information**

| 15.1 Safety, health and enviro  | nme | ental regulations/legislation specific for the substance or mixture                       |  |
|---|-----|---|--|
| EU Regulation (EC) No. 1907/2006 (REACH)  |     |   |  |
| Annex XIV - List of substar   | ces | subject to authorisation  |  |
| Substances of very high o   |     |   |  |
| None of the components a  |     |   |  |
| Annex XVII - Restrictions<br>on the manufacture,<br>placing on the market and<br>use of certain dangerous<br>substances, mixtures and<br>articles | : N | Not applicable.   |  |
| Other EU regulations  |     |   |  |
| Europe inventory  | : A | All components are listed or exempted.  |  |
| Black List Chemicals  | : N | Not listed  |  |
| Priority List Chemicals   | : N | Not listed  |  |
| Integrated pollution<br>prevention and control<br>list (IPPC) - Air   | : N | Not listed  |  |
| Integrated pollution<br>prevention and control<br>list (IPPC) - Water   | : N | Not listed  |  |
| International regulations   |     |   |  |
| Chemical Weapons<br>Convention List Schedule I<br>Chemicals   | : N | Not listed  |  |
| Chemical Weapons<br>Convention List Schedule II<br>Chemicals  | : N | Not listed  |  |
| Chemical Weapons<br>Convention List Schedule III<br>Chemicals   | : N | Not listed  |  |
| 15.2 Chemical Safety<br>Assessment  |     | This product contains substances for which Chemical Safety Assessments are still equired. |  |

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# **SECTION 16: Other information**

**Indicates information that has changed from previously issued version.** 

| Abbreviations and acronyms | <ul> <li>ATE = Acute Toxicity Estimate<br/>CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.<br/>1272/2008]<br/>DNEL = Derived No Effect Level<br/>EUH statement = CLP-specific Hazard statement<br/>PNEC = Predicted No Effect Concentration</li> </ul> |
|----------------------------|--|
|                            | PNEC = Predicted No Effect Concentration<br>RRN = REACH Registration Number  |

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification Justification              |   | Justification  |
|---|---|--|
| Not classified.                           |   |  |
| Full text of abbreviated H statements     | : H302 Harmful if swallo<br>H315 Causes skin irrit<br>H317 May cause an a<br>H319 Causes serious<br>H335 May cause resp | ation.<br>Ilergic skin reaction.<br>eye irritation.  |
| Full text of classifications<br>[CLP/GHS] | : Acute Tox. 4, H302<br>Eye Irrit. 2, H319<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>STOT SE 3, H335              | ACUTE TOXICITY: ORAL - Category 4<br>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2<br>SKIN CORROSION/IRRITATION - Category 2<br>SKIN SENSITIZATION - Category 1<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE<br>EXPOSURE) [Respiratory tract irritation] - Category 3 |
| Full text of abbreviated R phrases        | : R22- Harmful if swallowed<br>R41- Risk of serious dam<br>R38- Irritating to skin.<br>R37/38- Irritating to respir     | age to eyes.   |
| Full text of classifications [DSD/DPD]    | : Xn - Harmful<br>Xi - Irritant   |  |
| Date of issue/ Date of revision           | : 1 April 2012  |  |
| Date of previous issue<br>Version         | : No previous validation<br>: 1   |  |

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



100/108/150/160 Yellow Cartridge PN: 14N0902

SAFETY DATA SHEET

# **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

| 1.1 Product identifier  |   |
|---|---|
| Product name  | : 100/108/150/160 Yellow Cartridge PN: 14N0902  |
| Description of the product t  | ype : Part number :   |
| 100<br>100A<br>100XL<br>100XLA<br>108<br>108XL<br>108XLA<br>150<br>150XL<br>150XLA<br>160<br>160XL<br>160XLA            | 14N0902 (A,E)<br>14N0922 (A,E)<br>14N1071 (A,E)<br>14N1095 (A,E)<br>14N0342 (A,E)<br>14N0484 (A,E)<br>14N0484 (A,E)<br>14N1610 (A,E) 14N1795<br>14N1618 (A,E) 14N1799<br>14N1650 (A,E)<br>14N1914 (A,E)<br>14N1885 (A,E)<br>14N1905 (A,E) |
| REACH Status  | : EU (REACH): All components of the toner formulation are registered, pre-registered or exempt under REACH. Pre-registered chemicals will be registered between 2011 and 2018.  |
| Product type  | : Liquid.   |
| 1.2 Relevant identified uses of<br>Product use<br>Area of application   | <ul> <li>of the substance or mixture and uses advised against</li> <li>: Inkjet printer</li> <li>: Consumer applications.</li> </ul>  |
| <b>1.3 Details of the supplier of</b><br>Lexmark International, Inc.<br>740 West New Circle Road<br>Lexington, Ky 40550 | he safety data sheet  |
| e-mail address of person responsible for this SDS   | : caldwell@lexmark.com  |
| 1.4 Emergency telephone nu<br>Supplier  | nber  |
| Telephone number  | : Informations :1-859-232-3000  |
|   | Emergency :1-859-232-3333   |
| Hours of operation  | : 24/7  |
| SECTION 2. Hazarda  | identification  |

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture Product definition : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Not classified. Ingredients of unknown toxicity: roxicity

| Conforms to Regulation (EC         | C) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)  |  |  |  |
|------------------------------------|---|--|--|--|
| 100/108/150/160 Yellow Car         | rtridge PN: 14N0902   |  |  |  |
| <b>SECTION 2: Hazard</b>           | s identification  |  |  |  |
| Ingredients of unknown ecotoxicity | <ul> <li>Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 3%</li> </ul> |  |  |  |
| Classification according t         | o Directive 1999/45/EC [DPD]  |  |  |  |
| The product is not classifie       | ed as dangerous according to Directive 1999/45/EC and its amendments.   |  |  |  |
| Classification                     | Classification : Not classified.  |  |  |  |
| See Section 16 for the full te     | ext of the R phrases or H statements declared above.  |  |  |  |
| See Section 11 for more de         | tailed information on health effects and symptoms.  |  |  |  |
|                                    |   |  |  |  |
| 2.2 Label elements                 |   |  |  |  |
| Hazard pictograms                  | : Not applicable.   |  |  |  |
| Signal word                        | : No signal word.   |  |  |  |
| Hazard statements                  | : No known significant effects or critical hazards.   |  |  |  |
| Precautionary statements           |   |  |  |  |
| Prevention                         | : Not applicable.   |  |  |  |
| Response                           | : Not applicable.   |  |  |  |
| Storage                            | : Not applicable.   |  |  |  |
| Disposal                           | : Not applicable.   |  |  |  |
| Hazardous ingredients              | : Not applicable.   |  |  |  |
| Supplemental label<br>elements     | : Safety data sheet available for professional user on request.   |  |  |  |

| 2.3 Other hazards            |                  |
|------------------------------|------------------|
| Other hazards which do       | : Not available. |
| not result in classification |                  |

# **SECTION 3: Composition/information on ingredients**

| Substance/mixture  | : Mixture   |      |  |   |      |
|--|-------------|------|--|---|------|
|  |             |      | Classification   |   |      |
| Product/ingredient<br>name                                   | Identifiers | %    | 67/548/EEC   | Regulation (EC) No.<br>1272/2008 [CLP]  | Туре |
| Water Soluble Organic -<br>Solvent [NJTSRN<br>80100451-5051] |             | 5-10 | Xi; R38  | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319                                     | [1]  |
| Water Soluble Organic -<br>Solvent [NJTSRN<br>80100451-5052] |             | 3-7  | Xn; R22  | Acute Tox. 4, H302  | [1]  |
|  |             |      | See section 16 for<br>the full text of the R-<br>phrases declared<br>above | See Section 16 for the<br>full text of the H<br>statements declared<br>above. |      |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

Occupational exposure limits, if available, are listed in Section 8.

| SECTION 4: First aid measures  |   |  |
|--------------------------------|---|--|
| 4.1 Description of first aid m | leasures  |  |
| Eye contact                    | : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.   |  |
| Inhalation                     | : Remove victim to fresh air and keep at rest in a position comfortable for breathing.<br>Get medical attention if symptoms occur.  |  |
| Skin contact                   | : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.  |  |
| Ingestion                      | : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |  |
| Protection of first-aiders     | : No action shall be taken involving any personal risk or without suitable training.  |  |
|                                | ns and effects, both acute and delayed  |  |
| Potential acute health effect  | <u>xs</u>   |  |
| Eye contact                    | : No known significant effects or critical hazards.   |  |
| Inhalation                     | : No known significant effects or critical hazards.   |  |
| Skin contact                   | : No known significant effects or critical hazards.   |  |
| Ingestion                      | : No known significant effects or critical hazards.   |  |
| Over-exposure signs/symp       | <u>itoms</u>  |  |
| Eye contact                    | : No specific data.   |  |
| Inhalation                     | : No specific data.   |  |
| Skin contact                   | : No specific data.   |  |
| Ingestion                      | : No specific data.   |  |
| 4.3 Indication of any immed    | iate medical attention and special treatment needed   |  |
| Notes to physician             | <ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large<br/>quantities have been ingested or inhaled.</li> </ul>   |  |
| Specific treatments            | : No specific treatment.  |  |
| <b>SECTION 5: Firefigh</b>     | ting measures   |  |
| 5.1 Extinguishing media        |   |  |
| Suitable extinguishing media   | : Use an extinguishing agent suitable for the surrounding fire.   |  |
| Unsuitable extinguishing media | : None known.   |  |

#### 5.2 Special hazards arising from the substance or mixture

| Hazards from the substance or mixture    | : In a fire or if heated, a pressure increase will occur and the container may burst.   |
|--|---|
| Hazardous combustion products            | : Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide  |
| 5.3 Advice for firefighters              |   |
| Special precautions for<br>fire-fighters | <ul> <li>Promptly isolate the scene by removing all persons from the vicinity of the incident if<br/>there is a fire. No action shall be taken involving any personal risk or without suitable<br/>training.</li> </ul> |

# **SECTION 5: Firefighting measures**

| Special protective          | : Fire-fighters should wear appropriate protective equipment and self-contained     |
|-----------------------------|---|
| equipment for fire-fighters | breathing apparatus (SCBA) with a full face-piece operated in positive pressure     |
|                             | mode. Clothing for fire-fighters (including helmets, protective boots and gloves)   |
|                             | conforming to European standard EN 469 will provide a basic level of protection for |
|                             | chemical incidents.   |

# **SECTION 6: Accidental release measures**

| 6.1 Personal precautions, prot  | ective equipment and emergency procedures  |
|---------------------------------|--|
| For non-emergency<br>personnel  | : No action shall be taken involving any personal risk or without suitable training.<br>Evacuate surrounding areas. Keep unnecessary and unprotected personnel from<br>entering. Do not touch or walk through spilt material. Put on appropriate personal<br>protective equipment.   |
| For emergency responders        | : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".  |
| 6.2 Environmental precautions   | : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).  |
| 6.3 Methods and materials for   | containment and cleaning up  |
| Small spill                     | : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.  |
| Large spill                     | : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal. |
| 6.4 Reference to other sections | <ul> <li>See Section 1 for emergency contact information.</li> <li>See Section 8 for information on appropriate personal protective equipment.</li> <li>See Section 13 for additional waste treatment information.</li> </ul>  |

# **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

| Protective measures  | : Put on appropriate personal protective equipment (see Section 8).   |
|--|---|
| Advice on general occupational hygiene                                 | : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.   |
| 7.2 Conditions for safe<br>storage, including any<br>incompatibilities | : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. |
| 7.3 Specific end use(s)  |   |
| Recommendations  | : Not available.  |

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# SECTION 7: Handling and storage

Industrial sector specific : Not available. solutions

# SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 8.1 Control parameters

#### **Occupational exposure limits**

No exposure limit value known.

procedures

**Recommended monitoring** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

#### **Derived effect levels**

No DELs available.

#### **Predicted effect concentrations**

No PECs available.

#### 8.2 Exposure controls

| Appropriate engineering controls | :    | No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.   |
|----------------------------------|------|---|
| Individual protection measured   | ures | <u>i</u>  |
| Hygiene measures                 | :    | Wash hands, forearms and face thoroughly after handling chemical products, before<br>eating, smoking and using the lavatory and at the end of the working period.<br>Appropriate techniques should be used to remove potentially contaminated clothing.<br>Wash contaminated clothing before reusing. Ensure that eyewash stations and<br>safety showers are close to the workstation location. |
| Eye/face protection              | -    | Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.   |
| Skin protection                  |      |   |
| Hand protection                  | :    | Chemical-resistant, impervious gloves complying with an approved standard should<br>be worn at all times when handling chemical products if a risk assessment indicates<br>this is necessary.   |
| Body protection                  | :    | Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.   |
| Other skin protection            | :    | Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.   |
| Respiratory protection           | :    | Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.   |
| Environmental exposure controls  | :    | Emissions from ventilation or work process equipment should be checked to ensure<br>they comply with the requirements of environmental protection legislation. In some<br>cases, fume scrubbers, filters or engineering modifications to the process<br>equipment will be necessary to reduce emissions to acceptable levels.   |

# **SECTION 9: Physical and chemical properties**

| 9.1 Information on basic physica                | l a | nd chemical properties                 |
|---|-----|--|
| Appearance                                      |     |  |
| Physical state                                  | :   | Liquid.                                |
| Colour  | :   | Yellow.                                |
| Odour   | 1   | Faint odour.                           |
| Odour threshold                                 | 1   | Not available.                         |
| рН  | 1   | 7 to 8.5                               |
| Melting point/freezing point                    | 1   | 0°C                                    |
| Initial boiling point and boiling range         | :   | Not available.                         |
| Flash point                                     | :   | [Product does not sustain combustion.] |
| Evaporation rate                                | :   | Not available.                         |
| Flammability (solid, gas)                       | :   | Not available.                         |
| Burning time                                    | 1   | Not applicable.                        |
| Burning rate                                    | 1   | Not applicable.                        |
| Upper/lower flammability or<br>explosive limits | :   | Not available.                         |
| Vapour pressure                                 | 1   | Not available.                         |
| Vapour density                                  | :   | Not available.                         |
| Relative density                                | :   | Not available.                         |
| Solubility(ies)                                 | :   | Not available.                         |
| Partition coefficient: n-<br>octanol/water      | :   | Not available.                         |
| Auto-ignition temperature                       | :   | Not available.                         |
| Decomposition temperature                       | :   | Not available.                         |
| Viscosity                                       | :   | Not available.                         |
| Explosive properties                            | :   | Not available.                         |
| Oxidising properties                            | 1   | Not available.                         |

#### 9.2 Other information

No additional information.

# **SECTION 10: Stability and reactivity**

| 10.1 Reactivity                            | : | No specific test data related to reactivity available for this product or its ingredients.           |
|--|---|--|
| 10.2 Chemical stability                    | : | The product is stable.   |
| 10.3 Possibility of<br>hazardous reactions | : | Under normal conditions of storage and use, hazardous reactions will not occur.                      |
| 10.4 Conditions to avoid                   | : | No specific data.  |
| 10.5 Incompatible materials                | : | Reactive or incompatible with the following materials: oxidizing materials.<br>No specific data.     |
| 10.6 Hazardous<br>decomposition products   | : | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

# **SECTION 11: Toxicological information**

#### **11.1 Information on toxicological effects**

#### **Acute toxicity**

| Product/ingredient name                                    | Result         | Species | Dose        | Exposure |
|--|----------------|---------|-------------|----------|
| 100/108/150/160 Yellow<br>Cartridge PN: 14N0902            | LD50 Oral      | Rat     | >2000 mg/kg | -        |
| Water Soluble Organic<br>Solvent [NJTSRN<br>80100451-5052] | LD50 Oral      | Rat     | 2 g/kg      | -        |
| Conclusion/Summary   | Not available. |         |             |          |

**Conclusion/Summary** 

Acute toxicity estimates

Not available.

#### Irritation/Corrosion

| Product/ingredient name                                     | Result                            | Species           | Score        | Exposure                 | Observation |  |  |
|---|-----------------------------------|-------------------|--------------|--------------------------|-------------|--|--|
| Water Soluble Organic<br>Solvent [NJTSRN 80100451-<br>5051] | Skin - Moderate irritant          | Human             | -            | 168 hours<br>100 Percent | -           |  |  |
|   | Skin - Moderate irritant          | Human             | -            | 48 hours 100<br>Percent  | -           |  |  |
| Water Soluble Organic<br>Solvent [NJTSRN 80100451-<br>5052] | Skin - Mild irritant              | Rabbit            | -            | 495<br>milligrams        | -           |  |  |
| Conclusion/Summary  |                                   |                   |              |                          |             |  |  |
| Skin  | : Non-irritating to the skin.     |                   |              |                          |             |  |  |
| Eyes  | : Non-irritating to the eyes.     |                   |              |                          |             |  |  |
| <u>Sensitiser</u>   |                                   |                   |              |                          |             |  |  |
| <b>Conclusion/Summary</b>                                   |                                   |                   |              |                          |             |  |  |
| Skin  | : Not sensitizing                 |                   |              |                          |             |  |  |
| Mutagenicity  |                                   |                   |              |                          |             |  |  |
| <b>Conclusion/Summary</b>                                   | : Not available.                  |                   |              |                          |             |  |  |
| Carcinogenicity   |                                   |                   |              |                          |             |  |  |
| <b>Conclusion/Summary</b>                                   | : Not available.                  |                   |              |                          |             |  |  |
| Reproductive toxicity                                       |                                   |                   |              |                          |             |  |  |
| <b>Conclusion/Summary</b>                                   | Not available.                    |                   |              |                          |             |  |  |
| <b>Teratogenicity</b>                                       |                                   |                   |              |                          |             |  |  |
| Conclusion/Summary : Not available.                         |                                   |                   |              |                          |             |  |  |
| Specific target organ toxicity                              | <u>y (single exposure)</u>        |                   |              |                          |             |  |  |
| Not available.  |                                   |                   |              |                          |             |  |  |
| Specific target organ toxicity                              | y (repeated exposure)             |                   |              |                          |             |  |  |
| Not available.  |                                   |                   |              |                          |             |  |  |
| Aspiration hazard   |                                   |                   |              |                          |             |  |  |
| Not available.  |                                   |                   |              |                          |             |  |  |
| Not available.  |                                   |                   |              |                          |             |  |  |
| Information on the likely<br>routes of exposure             | : Routes of entry anticipated:O   | ral, Dermal.      |              |                          |             |  |  |
| Potential acute health effect                               | <u>s</u>                          |                   |              |                          |             |  |  |
| Inhalation  | : No known significant effects of | or critical hazar | ds.          |                          |             |  |  |
| Ingestion   | : No known significant effects of | or critical hazar | ds.          |                          |             |  |  |
| Skin contact  | : No known significant effects of | or critical hazar | ds.          |                          |             |  |  |
| Eye contact   | : No known significant effects of | or critical hazar | ds.          |                          |             |  |  |
| Symptoms related to the phy                                 | ysical, chemical and toxicologi   | cal characteri    | <u>stics</u> |                          |             |  |  |
|   |                                   |                   |              |                          |             |  |  |

# **SECTION 11: Toxicological information**

| Inhalation   | 1   | No specific data.                                 |  |
|--|-----|---|--|
| Ingestion  | :   | No specific data.                                 |  |
| Skin contact   | :   | No specific data.                                 |  |
| Eye contact  | :   | No specific data.                                 |  |
| Delayed and immediate effects and also chronic effects from short and long term exposure |     |   |  |
| Short term exposure  |     |   |  |
| Potential immediate effects  | :   | Not available.                                    |  |
| Potential delayed effects  | :   | Not available.                                    |  |
| Long term exposure   |     |   |  |
| Potential immediate<br>effects   | :   | Not available.                                    |  |
| Potential delayed effects  | :   | Not available.                                    |  |
| Potential chronic health effe  | ect | <u>s</u>  |  |
| Not available.   |     |   |  |
| Conclusion/Summary   | :   | Not available.                                    |  |
| General  | :   | No known significant effects or critical hazards. |  |
| Carcinogenicity  | :   | No known significant effects or critical hazards. |  |
| Mutagenicity   | :   | No known significant effects or critical hazards. |  |
| Teratogenicity   | :   | No known significant effects or critical hazards. |  |
| Developmental effects  | :   | No known significant effects or critical hazards. |  |
| Fertility effects  | :   | No known significant effects or critical hazards. |  |
| Other information  | :   | Not available.                                    |  |
|  |     |   |  |

# **SECTION 12: Ecological information**

#### **12.1 Toxicity**

| Product/ingredient name                                     | Result   | Species   | Exposure             |
|---|--|---|----------------------|
| 100/108/150/160 Yellow<br>Cartridge PN: 14N0902             | Acute EC50 >1000 mg/L  | Daphnia   | 24 hours             |
| Water Soluble Organic<br>Solvent [NJTSRN 80100451-<br>5051] | Acute EC50 >1000 mg/L<br>Acute EC50 7417000 to 8555000 ug/L<br>Fresh water | Daphnia<br>Daphnia - Daphnia magna - 6 to<br>24 hours | 48 hours<br>48 hours |
| Conclusion/Summary  | : No significant toxicity to wastewater tr<br>Toxicity Test                | eatment organisms. Aerobic HA-5                       | 0 Bacterial          |

#### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

#### **12.3 Bioaccumulative potential**

| Product/ingredient name                                     | LogPow | BCF | Potential |
|---|--------|-----|-----------|
| Water Soluble Organic<br>Solvent [NJTSRN 80100451-<br>5051] | -1.04  | -   | low       |

#### 12.4 Mobility in soil

| Soil/water partition coefficient (Koc) | : Not available. |
|--|------------------|
| Mobility                               | : Not available. |

#### 12.5 Results of PBT and vPvB assessment

| Date of is | ssue/Date of | revision | 2.1 | 1 April 2012 |  |
|------------|--------------|----------|-----|--------------|--|
|------------|--------------|----------|-----|--------------|--|

100/108/150/160 Yellow Cartridge PN: 14N0902

# **SECTION 12: Ecological information**

| PBT  | : Not applicable. |
|------|-------------------|
| vPvB | : Not applicable. |

**12.6 Other adverse effects** : No known significant effects or critical hazards.

# **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

# 13.1 Waste treatment methods

| Product             |   |
|---------------------|---|
| Methods of disposal | : The generation of waste should be avoided or minimised wherever possible.<br>Significant quantities of waste product residues should not be disposed of via the<br>foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus<br>and non-recyclable products via a licensed waste disposal contractor. Disposal of<br>this product, solutions and any by-products should at all times comply with the<br>requirements of environmental protection and waste disposal legislation and any<br>regional local authority requirements. |
| Hazardous waste     | <ul> <li>Within the present knowledge of the supplier, this product is not regarded as<br/>hazardous waste, as defined by EU Directive 91/689/EEC.</li> </ul>   |
| Packaging           |   |
| Methods of disposal | : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.  |
| Special precautions | : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.   |

# **SECTION 14: Transport information**

|   | ADR/RID        | ADN/ADNR       | IMDG           | ΙΑΤΑ           |
|---|----------------|----------------|----------------|----------------|
| 14.1 UN number                          | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| 14.2 UN proper<br>shipping name         | -              | -              | -              | -              |
| 14.3 Transport<br>hazard class(es)      | -              | -              | -              | -              |
| 14.4 Packing<br>group                   | -              | -              | -              | -              |
| 14.5<br>Environmental<br>hazards        | No.            | No.            | No.            | No.            |
| 14.6 Special<br>precautions for<br>user | Not available. | Not available. | Not available. | Not available. |
| Additional information                  | -              | -              | -              | -              |

14.7 Transport in bulk : according to Annex II of MARPOL 73/78 and the IBC Code

: Not available.

Date of issue/Date of revision : 1 April 2012

# **SECTION 15: Regulatory information**

| 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture   |  |  |  |  |  |  |
|---|--|--|--|--|--|--|
| EU Regulation (EC) No. 1907/2006 (REACH)  |  |  |  |  |  |  |
| Annex XIV - List of substances subject to authorisation   |  |  |  |  |  |  |
| Substances of very high concern   |  |  |  |  |  |  |
| None of the components are listed.  |  |  |  |  |  |  |
| Annex XVII - Restrictions<br>on the manufacture,<br>placing on the market and<br>use of certain dangerous<br>substances, mixtures and<br>articles | : Not applicable.                        |  |  |  |  |  |
| Other EU regulations  |  |  |  |  |  |  |
| Europe inventory  | : All components are listed or exempted. |  |  |  |  |  |
| Black List Chemicals  | : Not listed                             |  |  |  |  |  |
| Priority List Chemicals   | : Not listed                             |  |  |  |  |  |
| Integrated pollution<br>prevention and control<br>list (IPPC) - Air   | : Not listed                             |  |  |  |  |  |
| Integrated pollution<br>prevention and control<br>list (IPPC) - Water   | : Not listed                             |  |  |  |  |  |
| International regulations   |  |  |  |  |  |  |
| Chemical Weapons<br>Convention List Schedule I<br>Chemicals   | : Not listed                             |  |  |  |  |  |
| Chemical Weapons<br>Convention List Schedule II<br>Chemicals  | : Not listed                             |  |  |  |  |  |
| Chemical Weapons<br>Convention List Schedule III<br>Chemicals   | : Not listed                             |  |  |  |  |  |
|   |  |  |  |  |  |  |

| 15.2 Chemical Safety | 1 | This product contains substances for which Chemical Safety Assessments are still |
|----------------------|---|--|
| Assessment           |   | required.  |

# **SECTION 16: Other information**

| Indicates information the | at has changed from previously issued version.                                |
|---------------------------|---|
| Abbreviations and         | : ATE = Acute Toxicity Estimate   |
| acronyms                  | CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. |
|                           | 1272/2008]  |
|                           | DNEL = Derived No Effect Level  |
|                           | EUH statement = CLP-specific Hazard statement                                 |
|                           | PNEC = Predicted No Effect Concentration                                      |
|                           |   |

RRN = REACH Registration Number

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification                            |   | Justification  |
|---|---|--|
| Not classified.                           |   |  |
| Full text of abbreviated H statements     | : H302 Harmful if swall<br>H315 Causes skin irri<br>H319 Causes serious | tation.  |
| Full text of classifications<br>[CLP/GHS] | : Acute Tox. 4, H302<br>Eye Irrit. 2, H319<br>Skin Irrit. 2, H315       | ACUTE TOXICITY: ORAL - Category 4<br>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2<br>SKIN CORROSION/IRRITATION - Category 2 |

# **SECTION 16: Other information**

| Full text of abbreviated R phrases        | : R22- Harmful if swallowed.<br>R38- Irritating to skin. |
|---|--|
| Full text of classifications<br>[DSD/DPD] | : Xn - Harmful<br>Xi - Irritant                          |
| Date of issue/ Date of revision           | : 1 April 2012   |
| Date of previous issue                    | : No previous validation                                 |
| Version                                   | : 1  |
| Notice to reader                          |  |

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.