

MATERIAL SAFETY DATA SHEET

SECTION 1: Identification of the Substance and Company/Undertaking

| | | |
|-----|--|---|
| 1.1 | Product Identifier: | 1. Remanufactured HP951 Cyan, Magenta, Yellow Rev 1 17/12/2013 |
| 1.2 | Relevant identified uses of the substance and uses advised against | |
| | Use: | Ink for inkjet printer cartridges |
| | Relevant identified uses: | See above |
| | Environmental release category: | ERC8c (Wide dispersive indoor use resulting in inclusion into or onto a matrix) ERC11a (Wide dispersive indoor use of long-life articles and materials with low release) |
| | Mixture supplied to that use in form of: | A mixture |
| | Product Category by type of chemical: | PC18 (Ink and Toners) |
| | Sector of end use: | SU3, 21, 22 (Industrial, consumer and professional users) |
| | Uses advised against: | All other uses |
| 1.3 | Details of the supplier of the Safety data Sheet | |
| | Address: | Dynamic Cassette International Limited Marsh Lane Boston Lincolnshire PE21 7TX England |
| | Telephone Number: | +44 (0)1205 355555 |
| | Email Address: | sales@dci.co.uk |
| 1.4 | Emergency Telephone: | +44 (0)1205 355555 or 07901 825565 |

SECTION 2: Hazards Identification

2.1 Classification of the mixture

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| | | |
|-------|--|---|
| 2.1.1 | Classification according to Regulation (EC) No 1272/2008 (including amendments): | None |
| 2.1.2 | Classification according to EU Directive 67/548/EEC (including amendments): | None |
| 2.2 | Label elements: | None |
| | Signal word: | None |
| | Hazard statements: | None |
| | Precautionary statements: | None |
| | Prevention: | None |
| | Storage: | None |
| 2.3 | Other Hazards: | The product is a mixture containing mostly water with various other ingredients producing slight risk of irritation in their pure state |
| 2.4 | Additional Information: | The product is not classified as hazardous according to EC and National Regulations |

SECTION 3: Composition / Information on Ingredients

3.1 Substances

| Product identifier type in accordance with Article 18(2) of Regulation (EC) No 1272/2008 | Identifier number | Identification name | Weight % content (or range) | EC Number |
|--|-------------------|---------------------|-----------------------------|-----------|
| CAS Number | 56-81-5 | Glycerol | <10% | 200-289-5 |

SECTION 4: First-Aid Measures

4.1 Description of First Aid Measures

Ingestion:

Give 2-4 cups full of milk or water, do not induce vomiting; seek medical

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advice

Skin contact: Clean affected area with plenty of water, soap or other non-irritating cleanser

Eye contact: Flush eyes with plenty of water until clear; seek medical advice if irritation persists

Inhalation: Move the exposed person to fresh air at once. Seek medical advice

First Aider Protection: None specific

4.2 Most important symptoms and effects, both acute and delayed

Ingestion: Slight irritation of the gastro-intestinal tract

Skin contact: Slight irritation

Eye contact: Slight irritation

Inhalation: Slight irritation of the respiratory tract

4.3 Indication of immediate medical attention and special treatment needed

General advice: None specific

SECTION 5: Fire-Fighting Measures

5.1 Extinguishing media (small and large fires)

Small Fire: Water, water mist, foam, dry powder, CO2

Large Fire: Water, water mist, foam, dry powder, CO2

Avoid: None

5.2.1 Specific Hazards: May create toxic materials, carbon dioxide, carbon monoxide, various hydrocarbons etc. on thermal decomposition
Cartridges may burst if subjected to extreme heat

5.2.2 Protective equipment and advice for fire fighters: Self-contained breathing apparatus and full protective clothing

SECTION 6: Accidental Release Measures

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6.1 Personal precautions, protective equipment and emergency measures

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|---|--|
| 6.1.1 For non-emergency personnel: | During fitting and removal of cartridge apply usual precautions for handling of chemicals. Dispose of used cartridges safely, out of reach of children |
| 6.1.2 For emergency responders: | None specific |
| 6.2 Environmental precautions: | Take precautionary measures against discharges into the environment |
| 6.3 Methods and material for containment and cleaning up | |
| 6.3.1 For containment: | No hazard foreseen due to container size |
| 6.3.2 For cleaning up: | Apply normal mopping up procedures and dispose of waste as appropriate Dispose of bulk spillage via local authority regulations |
| 6.3.3 Other information: | None |
| 6.4 Reference to other sections: | Section 8 |

SECTION 7: Handling and Storage

| | |
|---|---|
| 7.1 Precautions for Safe Handling: | Handle with care Do not store under heavy load conditions or at extremes of temperature Keep out of reach of children |
| 7.2 Conditions for safe storage, including any incompatibilities: | None specific |
| 7.3 Specific end uses: | None |

SECTION 8: Exposure Controls/Personal Protection

8.1 Control Parameters

| Substance | | | | |
|-----------|---------------------------|-------------------|--------------------------|-------------------|
| CAS No. | | | | |
| | Limit value - Eight hours | | Limit value - Short term | |
| | ppm | mg/m ³ | ppm | mg/m ³ |
| | | | | |

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8.2 Exposure controls

| | |
|--|--|
| 8.2.1 Engineering controls: | None specific |
| 8.2.2 Personal protective equipment: | During fitting and removal of cartridge apply usual precautions for handling of chemicals. Dispose of used cartridges safely, out of reach of children |
| 8.2.3 Environmental exposure controls: | Take precautionary measures against discharges into the environment |

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

| | |
|---|----------------------|
| Appearance: | Liquid |
| Odour: | Slight alcohol odour |
| Odour threshold: | Not Applicable |
| pH: | Not Applicable |
| Melting point: | Not Applicable |
| Initial boiling point and boiling range: | Not Applicable |
| Flash point: | Not Applicable |
| Evaporation rate: | Not Applicable |
| Flammability: | Not Applicable |
| Upper/lower flammability or explosive limits: | Not Applicable |
| Vapour pressure: | Not Applicable |
| Relative vapour density (air=1): | Not Applicable |
| Relative density (water=1): | Not Applicable |
| Solubility: | Miscible with water |
| Partition coefficient (n-octanol/water): | Not Applicable |
| Auto-ignition temperature: | Not Applicable |

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Decomposition temperature:

Not Applicable

Viscosity:

Not Applicable

Explosive properties:

Not Applicable

Oxidising properties:

Not Applicable

9.2 Other information

Critical Temperature:

Not Applicable

SECTION 10: Stability and Reactivity

10.1 **Reactivity:**

Product is stable under normal storage and usage conditions

10.2 **Chemical stability:**

See above

10.3 **Possibility of hazardous reactions:**

None

10.4 **Conditions to Avoid:**

Extreme temperatures

10.5 **Incompatible materials:**

None

10.6 **Hazardous decomposition products:**

May create toxic materials, carbon dioxide, carbon monoxide, various hydrocarbons etc. on thermal decomposition

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity:

Not Applicable

Skin corrosion/irritation:

Not Applicable

Serious eye damage/irritation:

Not Applicable

Respiratory or skin sensitisation:

Not Applicable

Germ cell mutagenicity:

Not Applicable

Carcinogenicity:

Not Applicable

Reproductive toxicity:

Not Applicable

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| | |
|--------------------------------|---|
| STOT-single exposure: | No Known Effects |
| STOT-repeated exposure: | No Known Effects |
| Aspiration hazard: | Not Applicable |
| Further information: | Toxicological effects unlikely due to size and nature of product design |

SECTION 12: Ecological Information

| | | |
|------|--|---|
| 12.1 | Toxicity: | Ecological effects unlikely due to size and nature of product design, provided contents not disposed of in large quantities |
| 12.2 | Persistence and degradability: | Not Applicable |
| 12.3 | Bioaccumulative potential: | Not Applicable |
| 12.4 | Mobility in soil: | Not Applicable |
| 12.5 | Results of PBT and vPvB assessment: | The mixture does not contain any ingredients which are PBT, vPvB or Substances of Very high concern |
| 12.6 | Other adverse effects: | Not Applicable |

SECTION 13: Disposal Considerations

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|------|---------------------------------|--|
| 13.1 | Waste treatment methods: | Empty cartridges may be disposed of via local domestic waste regulations Full cartridges should be kept out of reach the of children until safely disposed of |
|------|---------------------------------|--|

SECTION 14: Transport Information

| | | |
|------|--------------------------------------|----------------|
| 14.1 | UN Number: | Not Applicable |
| 14.2 | UN proper shipping name: | Not Applicable |
| 14.3 | Transport hazard class: | Not Applicable |
| 14.4 | Packing group: | Not Applicable |
| 14.5 | Environmental hazards: | Not Applicable |
| 14.6 | Special Precautions for user: | Not Applicable |

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

Remark: not dangerous cargo, but keep separate from foodstuffs. No special transport requirements necessary under Approved Carriage of Dangerous Goods Regulations

SECTION 15: Regulatory Information

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

The information contained in this safety data sheet does not constitute the users own assessment of workplace risks as required by other health and safety regulations
This product has been assessed to ensure of compliance to the EU REACH and CLP Regulations

15.2 **Chemical Safety Assessment:**

The product is determined as not being hazardous

SECTION 16: Other Information

Methods of evaluation:

None specific

References:

None specific

Abbreviations:

REACH – Registration, Evaluation, Authorisation and restriction of Chemicals
CLP – Classification, labelling and Packaging of Substances and Mixtures
EC No – European Commission Number
UN Number - United Nations Committee of Experts
WEL – Workplace Exposure Limit
STOT – Specific Target Organ Toxicity
PBT – Persistent, Bioaccumulative and Toxic
vPvB - very Persistent and very Bioaccumulative

The information contained herein is carefully presented, based on the data we have. However, all precautions described herein are for normal handling, not for special handling. Please establish the safe usage in accordance with your handling procedures by reference to this SDS and applicable laws and guidance. In addition, the description, composition, and physical/chemical properties are typical values and not guaranteed for this product.

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Appendix 1: Exposure Scenarios

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