



# Material Safety Data Sheet

## HP22 CL

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### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product: ink used to fill HP22 CL reman cartridge

Supplier: Supplies Team

Address: Sheffield Airport Business Park, Europa Link, Sheffield, S9 1 XU

Information Phone: 0114 256 6000

### 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No1272/2008

The product is not classified according to the CLP regulation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Information concerning particular hazards for humans and environment:

The product does not have to be labeled due to the calculation procedure of the "General Classification guideline for the preparations of the EU" in the latest valid version

Classification system:

The classification is according to the latest of the EU-lists, and extended by company and literature data.

Label elements

Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals.

The product is considered to be an eye irritant.

The product has been classified and marked in accordance with national laws.

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### Chemical characterization: Mixtures

Name	CAS-No.	Content	Classification	CLP Classification
Ethane-1,2-diol	107-21-1	2.5-5%	XnR22	STOT RE 2, H373, Acute Tox. 4, H302
Glycerol	56-81-5	1-2.5%		
2,2-dimethylpropane-1,3-diol	126-30-7	2.5-5%	Xi R37-41	Eye Dam. 1, H318 STOT SE 3, H335
2-[2-(2-butoxyethoxy)ethoxy]ethanol	143-22-6	5-10%	Xi R41	Eye Dam. 1, H318
REACT.R 120		<0.1%	Xi R42/43	Resp. Sens. 1, H334; Skin Sens.1, H317
2-pyrrolidone	616-45-5	10-25%	Xi R36	Eye Irrit. 2A, H319
Ethylene glycol		2.5-5%	Xn R22	STOT RE 2, H373; Acute Tox. 4, H302
Di(tetramethylammonium)(29H, 31H-	12222-04-7	2.5-5%	Xi R36	Eye Irrit. 2A, H319



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phthalocyanin-N29,N30,N31,N32)disulfonamide disulfonate,cuprate(2-) complex,derivates				
Tetrasodium ethylenediaminetetraacetate	64-02-8	<1%	Xn R22, R22; Xi R41	Acute Tox. 3, H301; Eye Dam1, H318
1,2-benzisothiazol-3(2H)-one	2634-33-5	<0.1%	Xn R22; Xi R38-41-43; N R50	Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens.1, H317

Additional information: for the wording of the listed risk phrases refer to section 16.

#### 4. FIRST AID MEASURES

General information: no special measures required. In all cases of doubt, when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Skin contact: remove contaminated clothing. Immediately wash with water and soap and rinse thoroughly. Do not use solvents or thinners.

Eye contact: flush eyes thoroughly with water for 15 minutes. Seek medical attention if irritation persists.

Ingestion: keep at rest. Do not induce vomiting. Immediately call for medical help.

Inhalation: no adverse effect anticipated by this route of exposure. If symptoms show up, remove to fresh air.

#### 5. FIRE FIGHTING MEASURES

Extinguishing media: CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Unsuitable extinguishing agents: water with full jet.

Special hazards arising from the substance or mixture: formation of toxic gases is possible during heating or in case of fire.

Advice for firefighters

Protective equipment: mount respiratory protective device.

Additional information: cool endangered receptacles with water spray. Collect contaminated firefighting water separately. It must not enter the sewage system.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Ensure adequate ventilation.

Environmental precautions: Do not allow to enter sewers/surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

Clean-up procedures: absorb with liquid-binding material (sand, diatomite, sawdust). Send for recovery or disposal in suitable containers. Dispose contaminated material as waste according to item 13. Avoid use of solvents.

#### 7. HANDLING AND STORAGE

Precautions for safe handling: no special measures required.

Information about protection against explosions and fires: no special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and containers: store in a cool location.

Ideal storage temperature: 50-90 °F.

Use only containers specifically designed for this product.

Further information about storage conditions:

Store in a cool, dry conditions in well-sealed containers.

Protect from heat and direct sunlight.



## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredients with limit values that require monitoring at the workplace:

56-81-5 Glycerol

PEL Long-term value: 15\*5\*\*mg/m<sup>3</sup>

\*total dust\*\*respirable fraction

TLV- TLV withdraw-insufficient data human occup.exp.

107-21-1 ethane-1,2-diol

TLV Ceiling limit value: 100 mg/m<sup>3</sup>

H

Ethylene glycol

PEL Long-term value: 15\* 5\*\* mg/m<sup>3</sup>

\*total dust \*\* respirable fraction

TLV withdrawn-insufficient data human occup. exp

Exposure controls

Personal protective equipment:

General protective and hygiene measures:

The usual precautionary measures for handling chemicals should be followed.

Wash hands before breaks and at the end of work.

Do not eat or drink while working.

Immediately remove all soiled and contaminated clothing.

Clean skin thoroughly immediately after handling the product.

Breathing equipment: not required.

Protection of hands: Protective gloves

Eye protection: safety glasses

Body protection: protective work clothing

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

General information

Appearance:

Form/State: Fluid

Colour: Magenta, Cyan and Yellow

Odour: Mild

Solubility in water: Miscible

pH value at 20°C: 8.9

Change in condition

Melting point/melting range: undetermined

Boiling point/boiling range: 100 °C (> 212 °F)

Flash point: >150 °C (> 212 °F)

Ignition temperature: > 200 °C (>392 °F)

Auto igniting: not determined

Danger of explosion: product does not present an explosion hazard.

Explosion limits: Lower: not applicable - Upper: not applicable

Vapor pressure: 23 hPa (17 mm Hg)

Density at 20 °C (68 °F): 1 g/cm<sup>3</sup> (8.345 lbs/gal)

Viscosity at 20 °C: 2 mPas



## 10. STABILITY AND REACTIVITY

### Reactivity

#### Chemical stability:

Thermal decomposition/conditions to be avoided: stable under recommended storage and handling conditions.

Possibility of hazardous reactions: no dangerous reactions known if used according to specifications.

Conditions to avoid: No further relevant information available

Incompatible materials: strong oxidizers.

Haz. decomp. Products: in case of fire, carbon and nitrogen oxides are the main combustion gases.

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Acute toxicity:

Sensitization: sensitization possible through skin contact.

#### Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant.

General notes: there is no experimentally determined data available on the preparations itself. The product is considered to be an eye irritant.

## 12. ECOLOGICAL INFORMATION

### Toxicity

Aquatic toxicity: no further relevant information available

Persistence and degradability: no further relevant information available

Behavior in environmental systems:

Bio accumulative potential: no further relevant information available

Mobility in soil: no further relevant information available

#### Additional ecological information:

General notes: at the present there are no Ecotoxicological assessments. Do not allow product to reach ground water, water course or sewage system.

### Results of PBT and vPvB assessment

PBT: not applicable

vPvB: not applicable

Other adverse effects: no further relevant information available.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods:

#### Recommendation

Waste material must be disposed of in accordance with local regulations.

#### Uncleansed packaging:

Recommendation: empty contaminated packaging thoroughly. They can be recycled after thorough and proper cleaning. Packaging that cannot be cleansed are to be disposed of in the same manner as the product.

## 14. TRANSPORT INFORMATION

### UN- number:

DOT, ADR, ADN, IMDG, IATA: None

### UN proper shipping name:

DOT, ADR, ADN, IMDG, IATA: None

### Transport hazard class:

DOT, ADR, ADN, IMDG, IATA: None

### Packing group:



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DOT, ADR, IMDG, IATA: None

Environmental hazards

Marine pollutant: No

Special precautions for user: Not applicable

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

Transport/additional information: not dangerous according to the above specifications.

UN "Model Regulation": -

### 15. REGULATORY INFORMATION

Chemical safety assessment: A chemical safety assessment has not been carried out.

### 16. OTHER INFORMATION

Risk phrases in full

H301 Toxic if swallowed.

H302 Harmful if swallowed

H315 Causes skin irritation

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

R22 Harmful if swallowed.

R36 Irritating to eyes

R37 Irritating to respiratory system

R38 Irritating to skin

R41: Risk of damage to eyes

R42/43 May cause sensitization by inhalation and skin contact.

R43 May cause sensitization by skin contact.

R50 Very toxic to aquatic organisms.

The information contained in this safety data sheet is provided in accordance with the requirements of the regulations. The product as contained within an inkjet cartridge and used according to normal usage, doesn't present environmental or health risks. The cartridge should be treated in such a way so as no ink spills into the environment without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of this product are outside the supplier's control, the user is responsible for ensuring that requirements of relevant legislation are complied with.

The information contained herein is for health and safety guidance only and does not constitute a specification. It is, to the best of our knowledge and belief, accurate. However since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the end user to comply with all applicable laws and regulations.

Nothing contained herein is to be construed as a recommendation for use in violation of any patents or of applicable laws or regulations.



# Material Safety Data Sheet

## HP C9351AE Black

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### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product: ink used to fill HP21 BK reman cartridge

Supplier: Supplies Team

Address: Sheffield Airport Business Park, Europa Link, Sheffield, S9 1 XU

Information Phone: 0114 256 6000

### 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Information concerning particular hazards for humans and environment:

The product does not have to be labeled due to the calculation procedure of the "General Classification guideline for the preparations of the EU" in the latest valid version

Classification system:

The classification is according to the latest of the EU-lists, and extended by company and literature data.

#### Classification according to Directive 67/548/EEC or Directive 1999/45/EC

##### Information concerning particular hazards for humans and environment:

No significant hazard

##### Information concerning particular hazards for human and environment:

No hazards to be particularly mentioned.

Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

#### Label elements

Labelling according to EU guidelines:

The product has been classified and marked in accordance with national laws.

Observe the general safety regulations when handling chemicals.

#### Special labeling of certain preparations:

Safety data sheet available for professional user on request.

#### Other hazards

Results of PBT and vPvB assessment

- PBT: not applicable
- vPvB: not applicable

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Mixtures

Name	Cas No	EC No	Content	Classification	CLP Classification
Diethylene glycol (2,2'-Oxydiethanol)	111-46-6	203-872-2	10-20%	Xn R22	Acute Tox. 4, H302

The full text for all R-phrases are displayed in Section 16



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### 4. FIRST AID MEASURES

**Skin contact:** remove contaminated clothing. Immediately wash with water and soap and rinse thoroughly. Seek medical attention if symptoms persist.

**Eye contact:** flush eyes thoroughly with water for 15 minutes. Seek medical attention if irritation persists.

**Ingestion:** Do not induce vomiting. Rinse mouth thoroughly. May cause irritation to mucous membranes. If you feel unwell seek medical advice.

**Inhalation:** move the exposed person to fresh air. May cause irritation to respiratory system. If you feel unwell seek medical advice.

### 5. FIRE FIGHTING MEASURES

Extinguishing media: use extinguishing media appropriate to the surrounding fire conditions.

Special hazards arising from the substance or mixture: burning produces irritating and toxic fumes.

Advice for firefighters:

Protective equipment: wear self-contained breathing apparatus and protective clothing.

Additional information: cool endangered receptacles with water spray. Collect contaminated firefighting water separately. It must not enter the sewage system.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Ensure adequate ventilation.

Environmental precautions: Do not allow to enter sewers/surface or ground water.

Clean-up procedures: absorb with liquid-binding material (sand, diatomite, sawdust). Send for recovery or disposal in suitable containers. Dispose contaminated material as waste according to item 13. Avoid use of solvents. Clean spillage area thoroughly with plenty of water.

### 7. HANDLING AND STORAGE

Precautions for safe handling: ensure adequate ventilation of the working area. Avoid contact with eyes and skin. Adopt best Manual Handling considerations when handling, carrying and dispensing.

Information about protection against explosions and fires: no special measures required.

Conditions for safe storage, including any incompatibilities: keep containers tightly closed. Keep in a cool dry, well ventilated area. Store in correctly labelled containers.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredients with limit values:

Diethylene glycol

(2,2'-Oxydiethanol) WEL 8-hr limit ppm: 23

WEL 8-hr limit mg/m<sup>3</sup>: 101

Exposure controls:

Appropriate engineering controls: ensure adequate ventilation of the working area.

Individual protection measures: wear protective clothing.

Eye/face protection: approved safety goggles

Skin/hand protection: wear suitable gloves, wear suitable protective clothing

Respiratory protection: wear suitable respiratory equipment when necessary

Occupational exposure controls: keep away from food, drink and animal food.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

General information

Appearance: liquid

Colour: black

Odour: slight



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Solubility in water: Miscible  
pH value: 8-9  
Relative density: 1.02 – 1.06(H<sub>2</sub>O=1 @20°C)  
Viscosity: =3.15 x 10<sup>-6</sup>m<sup>2</sup>/s:@40°C(ISO 3104/3105)  
Solubility: soluble in water

### 10. STABILITY AND REACTIVITY

Reactivity: stable under normal conditions  
Chemical stability: stable under normal conditions  
Possibility of hazardous reactions: no dangerous reactions known if used according to specifications.  
Conditions to avoid: No further relevant information available.  
Incompatible materials: no data is available on this product.  
Haz. decomp. Products: burning produces irritating and toxic fumes.

### 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects  
Skin corrosion: may cause irritation to skin and eyes.  
Toxicological information: no data available

### 12. ECOLOGICAL INFORMATION

Toxicity  
Aquatic toxicity: no further relevant information available  
Persistence and degradability: no further relevant information available  
Behavior in environmental systems:  
Bio accumulative potential: no further relevant information available  
Mobility in soil: no further relevant information available  
Additional ecological information:  
General notes: at the present there are no Ecotoxicological assessments. Do not allow product to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment  
PBT: not applicable  
vPvB: not applicable  
Other adverse effects: no further relevant information available.

### 13. DISPOSAL CONSIDERATIONS

Waste treatment methods:  
Recommendation: waste material must be disposed of in accordance with local and national regulations.

### 14. TRANSPORT INFORMATION

ADR/RD: the product is not classified as dangerous for carriage.  
IMDG: the product is not classified as dangerous for carriage.  
IATA: the product is not classified as dangerous for carriage.  
No special precautions required for user.

### 15. REGULATORY INFORMATION

Regulations:  
Regulation (EC) No 1907/2006 of the European parliament and of the Council of 18<sup>th</sup> December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No





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793/93 and Commission Regulation (EC) No 1488/94 as well as council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

Commission Regulation (EU) No 453/2010 of 20<sup>th</sup> May 2010 amending regulation (EC) No1907/2006 of the European Parliament and of the council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No1488/94 as well as council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC and 2000/21/EC.

### **16. OTHER INFORMATION**

Risk phrases in full

R22 Harmful if swallowed

Acute Tox. 4: H302 harmful if swallowed

The information contained in this safety data sheet is provided in accordance with the requirements of the regulations. The product as contained within an inkjet cartridge and used according to normal usage, doesn't present environmental or health risks. The cartridge should be treated in such a way so as no ink spills into the environment without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of this product are outside the supplier's control, the user is responsible for ensuring that requirements of relevant legislation are complied with.

The information contained herein is for health and safety guidance only and does not constitute a specification. It is, to the best of our knowledge and belief, accurate. However since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the end user to comply with all applicable laws and regulations.

Nothing contained herein is to be construed as a recommendation for use in violation of any patents or of applicable laws or regulations.