



# Material Safety Data Sheet

## HP 342 CL

Revision 1.0  
Page 1 of 6  
31/03/2015

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product: ink used to fill HP342 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



**GHS08** Health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



**GHS05** corrosion

Eye Dam. 1 H318 Causes serious eye damage.



**GHS07**

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction

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

Not applicable

Information concerning particular hazards for human and environment: No hazards to be particularly mentioned.

The product is considered an eye irritant per OSHA

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:

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

| 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<br>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  |
| Di(tetramethylammonium)(29H, 31H-phthalocyanin-N29,N30,N31,N32)disulfonamide disulfonate,cuprate(2-) complex,derivates | 12222-04-7 | 2.5-5%  | Xn R22-48/22; N R51/53      | STOT RE 2, H373, Acute Tox. 4, H302  |
| 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                       |
| Propan-2-ol  | 67-63-0    | 1-2.5%  | Xi R36; F R11 R67           | Flam. Liq. 2, H225; Eye Irrit. 2A, H319; STOT SE 3, H336   |
| Butanol  | 71-36-3    | 1-2.5%  | Xn R22; Xi R37/38-41 R10-67 | Flam. Liq 3, H226; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336 |
| Ethanol  | 64-17-5    | 1-2.5%  | F R11                       | Flam. Liq. 2, H225   |

### 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

Components with limit values that require monitoring at the workplace:

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

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

56-81-5 glycerol

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

\*total dust\*\*respirable fraction

TLV-TLV withdrawn-insufficient data human occup.exp.

71-36-3 butanol

PEL- Long-term value: 300 mg/m<sup>3</sup>, 100 ppm

REL- Ceiling limit value: 150 mg/m<sup>3</sup>, 50 ppm

Skin

TLV- Long-term value: 61 mg/m<sup>3</sup>, 20 ppm

64-17-5 Ethanol

PEL- Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm

REL- Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm

TLV- Short-term value: 1880 mg/m<sup>3</sup>, 1000 ppm

67-63-0 propan-2-ol

PEL Long-term value: 980 mg/m<sup>3</sup>, 400 ppm

REL Short-term value: 1225 mg/m<sup>3</sup>, 500 ppm

Long-term value: 980 mg/m<sup>3</sup>, 400 ppm

TLV Shor-term value: 984 mg/m<sup>3</sup>, 400 ppm

Long-term value: 492 mg/m<sup>3</sup>, 200 ppm

BEI



Ingredients with biological limit values:  
67-63-0 propan-2-ol  
BEI 40mg/L  
Medium: urine  
Time: end of shift at end of workweek  
Parameter: Acetone (background, nonspecific)

#### Exposure controls

Personal protective equipment:

General protective and hygiene measures:

The usual precautionary measures for handling chemicals should be followed.

Avoid close or long term contact with the skin.

Avoid contact with the eyes.

Clean skin thoroughly immediately after handling the product.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not eat or drink while working.

Respiratory protection: 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: Cyan, Magenta, 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: >100 °C (212 °F)

Ignition temperature: > 350 °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 at 20 °C (68 °F): 23 hPa (17 mm Hg)

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

Viscosity at 20 °C: 2 mPas

## 10. STABILITY AND 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.



Hazardous decomposition 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 preparation itself. The product is considered to be an eye irritant. The product is considered to be an eye and skin irritant and harmful by ingestion.

## 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

Ecotoxicological effects:

Remark: Harmful to fish

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.

Harmful to aquatic organisms

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:

Recommendations: 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. TRANSPORTATION 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:

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

UN "Model Regulation":



## 15. REGULATORY INFORMATION

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

## 16. OTHER INFORMATION

Relevant Phrases

H225 Highly flammable liquid and vapor.

H226 Flammable liquid and vapour

H302 Harmful if swallowed

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage

H319 Causes serious eye

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

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

R10 Flammable

R11 Highly Flammable

R22: Harmful if swallowed

R36 Irritating to yes

R37 Irritating to respiratory system

R38 Irritating to skin

R41 Risk of serious damage to eyes

R43 May cause sensitization by skin contact.

R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed

R50 Very toxic to aquatic organisms.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R67 Vapor may cause drowsiness and dizziness.

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.