# SAFETY DATA SHEET

This safety data sheet complies with the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

**Issue Date** 08-Mar-2018 **Revision Date** 08-Mar-2018 **Version** 1

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

*Product Name* IJ4500 - Magenta

Contains Proprietary Acrylic Ester Derivative, Acrylic Acid Ester, Multifunctional Amine Acrylate, Urethane Acrylate, Morpholine, 4-(1-oxo-2-propenyl)-, phenylbis(2,4,6-trimethylbenzoyl)-phosphine oxide, Diphenyl(2,4,6-trimethylbenzoyl) phosphine oxide

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended Use** Digital Printing

**Uses advised against** No information available

### 1.3. Details of the supplier of the safety data sheet

**Manufacturer** NUTEC DIGITAL INK (PTY) LTD. 1 CLIFFORD STREET OTTERY, 7800 SOUTH AFRICA
For further information, please contact

**Contact Point** Regulatory Department

### 1.4. Emergency telephone number

Emergency Telephone During normal opening times: +27 21 763 6990
24 Hours: +27 83 326 0774

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

*Regulation (EC) No 1272/2008*

| | |
|---|---|
| **Acute toxicity - Oral** | Category 4 - (H302) |
| **Skin corrosion/irritation** | Category 1 - (H314) |
| **Serious eye damage/eye irritation** | Category 1 - (H318) |
| **Skin sensitization** | Category 1 - (H317) |
| **Specific target organ toxicity (single exposure)** | Category 3 - (H335) |
| **Specific target organ toxicity (repeated exposure)** | Category 2 - (H373) |
| **Chronic aquatic toxicity** | Category 3 - (H412) |

**Classification according to Directive 67/548/EEC or 1999/45/EC**
*Full text of R-phrases: see section 16*

### 2.2. Label elements

**Product identifier**
Contains Proprietary Acrylic Ester Derivative, Acrylic Acid Ester, Multifunctional Amine Acrylate, Urethane Acrylate, Morpholine, 4-(1-oxo-2-propenyl)-, phenylbis(2,4,6-trimethylbenzoyl)-phosphine oxide, Diphenyl(2,4,6-trimethylbenzoyl) phosphine oxide

**Signal word**

Danger

**Hazard statements**
H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H335 - May cause respiratory irritation
H373 - May cause damage to organs through prolonged or repeated exposure
H412 - Harmful to aquatic life with long lasting effects
Contains 2-phenoxyethyl acrylate, Propoxylated neopentyl glycol, Oxybis(methyl-2,1-ethanediyl diacylate, 1,6-Hexanediol diacrylate EUH208 - May produce an allergic reaction

**Precautionary Statements - EU (§28, 1272/2008)**
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor
P314 - Get medical advice/attention if you feel unwell
P501 - Dispose of contents/container to industrial incineration plant
P260 - Do not breathe dust/fume/gas/mist/vapors/spray

**2.3. Other hazards**
No information available

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.1 Substances**

| Chemical Name | EC No | CAS No | Weight-% | Classification according to Directive 67/548/EEC or 1999/45/EC | Classification according to Regulation (EC) No. 1272/2008 [CLP] | REACH Registration Number |
|---|---|---|---|---|---|---|
| Propietary Acrylic Ester Derivative | Listed | - | <60 | Xi; R36/37/38. N; R51/53. | STOT SE 3 (H335)<br>Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) | No data available |
| Morpholine, 4-(1-oxo-2-propenyl)- | 418-140-1 | 5117-12-4 | <25 | Xn; R22-48/22<br>Xi; R41<br>R43 | Acute Tox. 4 (H302)<br>Eye Dam. 1 (H318)<br>Skin Sens. 1 (H317)<br>STOT RE 2 (H373) | No data available |
| Acrylic Acid Ester | Listed | - | <15 | Xn;R22 - C;R34 - R43 - R52/53 | Acute Tox. 4 (H302)<br>Skin Corr. 1A (H314)<br>Skin Sens. 1 (H317)<br>Aquatic Chronic 3 (H412) | No data available |
| phenylbis(2,4,6-trimethylbenzoyl)-phosphine oxide | 423-340-5 | 162881-26-7 | <10 | R43<br>R53 | Skin Sens. 1 (H317)<br>Aquatic Chronic 4 (H413) | No data available |
| Multifunctional Amine Acrylate | - | 67906-98-3 | <5 | Xi; R36/38 | Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319) | No data available |
| Diphenyl(2,4,6-trimethylbenzoyl) phosphine oxide | 278-355-8 | 75980-60-8 | <5 | Repr.Cat.3; R62<br>R43<br>N;51/53 | Skin Sens. 1 (H317)<br>Repr. 2 (H361)<br>Aquatic Chronic 2 (H411) | No data available |

| | | | | | | |
|---|---|---|---|---|---|---|
| Urethane Acrylate | 289-200-9 | 86178-38-3 | <5 | Xi;R36/38 | Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319) | No data available |
| 2-Benzyl-2-dimethylamino-1-(4-morpholinphenyl)butan-1-one | 404-360-3 | 119313-12-1 | <5 | N; R50-53 | Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) | No data available |
| 2-phenoxyethyl acrylate | 256-360-6 | 48145-04-6 | <1 | - | Eye Dam. 1 (H318)<br>Skin Sens. 1 (H317)<br>Aquatic Chronic 2 (H411) | No data available |
| Propoxylated neopentyl glycol | - | 84170-74-1 | <10 | Xi; R36/37/38 | Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>Skin Sens. 1 (H317)<br>STOT SE 3 (H335) | No data available |
| Oxybis(methyl-2,1-ethanediyl diacylate | 260-754-3 | 57472-68-1 | <10 | Xi;R41,38<br>R43 | Skin Irrit. 2 (H315)<br>Eye Dam. 1 (H318)<br>Skin Sens. 1 (H317) | No data available |
| 1,6-Hexanediol diacrylate | 235-921-9 | 13048-33-4 | <10 | Xi; R36/38<br>R43 | Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>Skin Sens. 1 (H317)<br>Aquatic Chronic 3 (H412) | No data available |

**Full text of R-phrases: see section 16**

**Full text of H- and EUH-phrases: see section 16**

## Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

**Inhalation** Remove to fresh air.

**Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

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

**Symptoms** No information available.

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

**Note to physicians** Treat symptomatically.

## Section 5: FIRE FIGHTING MEASURES

### 5.1. Extinguishing media

**Suitable extinguishing media**
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media**
No information available

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

Thermal decomposition can lead to release of irritating and toxic gases and vapors

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

## Section 6: ACCIDENTAL RELEASE MEASURES

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

**Personal precautions**
Ensure adequate ventilation, especially in confined areas.

**For emergency responders**
Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

Collect spillage.

### 6.3. Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal.

### 6.4. Reference to other sections

See section 8 for more information. See section 13 for more information.

## Section 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

**Advice on safe handling**
Ensure adequate ventilation, especially in confined areas.

**General Hygiene Considerations**
Handle in accordance with good industrial hygiene and safety practice.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions**
Keep container tightly closed in a dry and well-ventilated place.

**Incompatible materials**
None known based on information supplied.

### 7.3. Specific end use(s)

**Risk Management Methods (RMM)**
The information required is contained in this Material Safety Data Sheet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control parameters**

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

**8.2. Exposure controls**

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

**Eye/face protection** Tight sealing safety goggles.

**Skin and body protection** Suitable protective clothing.

**Environmental exposure controls** No information available.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1. Information on basic physical and chemical properties**

| | | | |
|---|---|---|---|
| **Physical state** | liquid | | |
| **Appearance** | Liquid | **Odor** | Characteristic |
| **Color** | Magenta | **Odor threshold** | No information available |

| **Property** | **Values** | **Remarks • Method** |
|---|---|---|
| **pH** | | No information available |
| **Melting point / freezing point** | | No information available |
| **Boiling point / boiling range** | 200 °C / 392 °F | No information available |
| **Flash point** | 100 °C / 212 °F | No information available |
| **Evaporation rate** | | No information available |
| **Flammability (solid, gas)** | | No information available |
| **Flammability Limit in Air** | | |
| **Upper flammability limit:** | | No information available |
| **Lower flammability limit:** | | No information available |
| **Vapor pressure** | | No information available |
| **Vapor density** | | No information available |
| **Relative density** | | No information available |
| **Water solubility** | Immiscible in water | No information available |
| **Solubility(ies)** | | No information available |
| **Partition coefficient** | | No information available |
| **Autoignition temperature** | | No information available |
| **Decomposition temperature** | | No information available |
| **Kinematic viscosity** | | No information available |
| **Dynamic viscosity** | | No information available |
| **Explosive properties** | Not an explosive | |
| **Oxidizing properties** | Not applicable | |

**9.2. Other information**

| | |
|---|---|
| **Softening point** | No information available |
| **Molecular weight** | No information available |
| **VOC Content (%)** | No information available |
| **Density** | No information available |
| **Bulk density** | No information available |

## Section 10: STABILITY AND REACTIVITY

**10.1. Reactivity**

No data available.

**10.2. Chemical stability**

Stable under normal conditions.

Explosion data
Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

**10.3. Possibility of hazardous reactions**

**Possibility of Hazardous Reactions**
None under normal processing.

**10.4. Conditions to avoid**

None known.

**10.5. Incompatible materials**

No information available.

**10.6. Hazardous decomposition products**

None under normal use conditions.

## Section 11: TOXICOLOGICAL INFORMATION

**11.1. Information on toxicological effects**

**Acute toxicity**

**Product Information**
Product does not present an acute toxicity hazard based on known or supplied information.

**Inhalation** No data available.
**Eye contact** No data available.
**Skin contact** No data available.
**Ingestion** No data available.

**The following values are calculated based on chapter 3.1 of the GHS document**

**ATEmix (oral)** 1,350.00

**Unknown acute toxicity**

98.544 % of the mixture consists of ingredient(s) of unknown toxicity.
18.294 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
28.294 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
98.544 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
98.544 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
95.644 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Propietary Acrylic Ester Derivative | = 4890 mg/kg ( Rat ) | > 5 g/kg ( Rabbit ) | |
| Diphenyl(2,4,6-trimethylbenzoyl) phosphine oxide | >5000 mg/kg | >2000 mg/kg | |
| 2-phenoxyethyl acrylate | = 4660 µL/kg ( Rat ) | = 2540 µL/kg ( Rabbit ) | |
| Oxybis(methyl-2,1-ethanediyl diacylate | = 4600 mg/kg ( Rat ) | > 2 g/kg ( Rabbit ) | |
| 1,6-Hexanediol diacrylate | = 5 g/kg ( Rat ) | = 3600 µL/kg ( Rabbit ) | |

**Skin corrosion/irritation** No information available.

**Serious eye damage/eye irritation** No information available.

**Sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Unknown aquatic toxicity 27.3966 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

27.3966 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

| Chemical Name | Algae/aquatic plants | Fish | Crustacea |
|---|---|---|---|
| Propietary Acrylic Ester Derivative | 72 hours: 4.2 mg/l, Algae | - | - |

### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

No information available.

### 12.4. Mobility in soil

**Mobility in soil**
No information available.

### 12.5. Results of PBT and vPvB assessment

No information available.

### 12.6. Other adverse effects

No information available

## Section 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste from residues/unused products** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** Improper disposal or reuse of this container may be dangerous and illegal.

## Section 14: TRANSPORT INFORMATION

**IMDG**

| | |
|---|---|
| **14.1 UN/ID no** | UN3082 |
| **14.2 Proper Shipping Name** | Environmentally hazardous substance, liquid, n.o.s. |
| **14.3 Hazard Class** | 9 |
| **14.4 Packing Group** | III |
| **Description** | UN3082, Environmentally hazardous substance, liquid, n.o.s. (Isobornyl acrylate monomer, diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide), 9, III, Marine Pollutant |
| **14.5 Marine pollutant** | Not applicable |
| **14.6 Special Provisions** | 274, 335 |
| **EmS-No** | F-A, S-F |
| **14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** | No information available |

**RID**

| | |
|---|---|
| **14.1 UN/ID no** | UN3082 |
| **14.2 Proper Shipping Name** | Not regulated |
| **14.3 Hazard Class** | 9 |
| **14.4 Packing Group** | III |
| **Description** | &UN3082, & (<TNR00012>), 9, III |
| **14.5 Environmental hazard** | Not applicable |
| **14.6 Special Provisions** | None |
| **Classification code** | M6 |

**ADR**

| | |
|---|---|
| **14.1 UN/ID no** | UN3082 |
| **14.2 Proper Shipping Name** | Not regulated |
| **14.3 Hazard Class** | 9 |
| **Labels** | 9 |
| **14.4 Packing Group** | III |
| **Description** | &UN3082, & (<TNA00012>), 9, III, (E) |
| **14.5 Environmental hazard** | Not applicable |
| **14.6 Special Provisions** | 274, 335, 601, 375 |
| **Classification code** | M6 |
| **Tunnel restriction code** | (E) |

**IATA**

| | |
|---|---|
| **14.1 UN/ID no** | UN3082 |
| **14.2 Proper Shipping Name** | Environmentally hazardous substance, liquid, n.o.s. |
| **14.3 Hazard Class** | 9 |
| **14.4 Packing Group** | III |
| **Description** | UN3082, Environmentally hazardous substance, liquid, n.o.s. (Isobornyl acrylate monomer, diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide), 9, III |
| **14.5 Environmental hazard** | Not applicable |
| **14.6 Special Provisions** | A97, A158, A197 |
| **ERG Code** | 9L |

## Section 15: REGULATORY INFORMATION

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

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents

at work

**Authorizations and/or restrictions on use:**
This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

**Persistent Organic Pollutants**
Not applicable

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009** Not applicable

**International Inventories**
**15.2. Chemical safety assessment**

No information available

## Section 16: OTHER INFORMATION

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Full text of R-phrases referred to under sections 2 and 3**
No information available

**Full text of H-Statements referred to under section 3**
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H317 - May cause an allergic skin reaction
H412 - Harmful to aquatic life with long lasting effects
H413 - May cause long lasting harmful effects to aquatic life
H318 - Causes serious eye damage
H411 - Toxic to aquatic life with long lasting effects
H302 - Harmful if swallowed
H373 - May cause damage to organs through prolonged or repeated exposure if inhaled
H335 - May cause respiratory irritation
H314 - Causes severe skin burns and eye damage
H361 - Suspected of damaging fertility or the unborn child if inhaled

**Legend**
SVHC: Substances of Very High Concern for Authorization:

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

| | | | |
|---|---|---|---|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | * | Skin designation |

**Issue Date** 08-Mar-2018

**Revision Date** 08-Mar-2018

**Revision Note** Not applicable.

**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**End of Safety Data Sheet**