

# 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 03-Jun-2015

Revision Date 03-Jun-2015

Version 1

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

### 1.1. Product identifier

Product Name Topaz T35-SK-LS Magenta

Contains Butoxyethyl acetate,  $\gamma$ -Butyrolactone

### 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 - Inhalation (Vapors)	Category 4 - (H332)
Serious eye damage/eye irritation	Category 1 - (H318)

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

Full text of R-phrases: see section 16

### Hazard symbols

Xn - Harmful

### R-code(s)

Xn;R20/21 - Xi;R36

### 2.2. Label elements

#### Product identifier

Contains Butoxyethyl acetate,  $\gamma$ -Butyrolactone



#### Signal word

Danger

**Hazard statements**

H318 - Causes serious eye damage

H332 - Harmful if inhaled

EUH210 - Safety data sheet available on request

**Precautionary Statements - EU (§28, 1272/2008)**

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

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P271 - Use only outdoors or in a well-ventilated area

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

**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
Butoxyethyl acetate	203-933-3	112-07-2	<80	Xn; R20/21	Acute Tox. 4 (H312) Acute Tox. 4 (H332)	No data available
Alcohol Derivative Solvent	Listed	-	<10	Xi; R36	Eye Irrit. 2 (H319)	No data available
γ-Butyrolactone	202-509-5	96-48-0	<10	Xn;R22 Xi; R41 R67	Acute Tox. 4 (H302) Eye Dam. 1 (H318) STOT SE 3 (H336)	No data available

Full text of R-phrases: see section 16Full text of H- and EUH-phrases: see section 16**Section 4: FIRST AID MEASURES****4.1. Description of first aid measures****General advice**

If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

**Inhalation**

Remove to fresh air. Call a physician. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician. Move to fresh air in case of accidental inhalation of vapors or decomposition products.

**Skin contact**

Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is not required. If skin irritation persists, call a physician.

**Eye contact**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician. Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Ingestion** Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.

**Self-protection of the first aider** Use personal protective equipment as required.

#### **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. Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray (fog). Alcohol resistant foam.

**Unsuitable extinguishing media**

No information available

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

Keep product and empty container away from heat and sources of ignition Risk of ignition

#### **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**

Use personal protective equipment as required. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges.

**For emergency responders**

Use personal protection recommended in Section 8.

#### **6.2. Environmental precautions**

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional ecological information.

#### **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**

Cover liquid spill with sand, earth or other non-combustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Dam up. Take precautionary measures against static discharges.

#### **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

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation. All equipment used when handling the product must be grounded. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

#### General Hygiene Considerations

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

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

#### Storage Conditions

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Keep away from heat.

#### 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

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Butoxyethyl acetate 112-07-2	TWA 20 ppm TWA 133 mg/m <sup>3</sup> STEL 50 ppm STEL 333 mg/m <sup>3</sup> *	TWA: 20 ppm TWA: 133 mg/m <sup>3</sup> STEL: 50 ppm STEL: 332 mg/m <sup>3</sup> Sk*	TWA: 10 ppm TWA: 66.5 mg/m <sup>3</sup> STEL: 50 ppm STEL: 333 mg/m <sup>3</sup> *	TWA: 20 ppm TWA: 133 mg/m <sup>3</sup> STEL: 50 ppm STEL: 333 mg/m <sup>3</sup> vía dérmica*	TWA: 20 ppm TWA: 130 mg/m <sup>3</sup> H*
Alcohol Derivative Solvent	-	TWA: 50 ppm TWA: 241 mg/m <sup>3</sup> STEL: 75 ppm STEL: 362 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 241 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 96 mg/m <sup>3</sup> H*
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Butoxyethyl acetate 112-07-2	TWA: 20 ppm TWA: 133 mg/m <sup>3</sup> STEL: 50 ppm STEL: 333 mg/m <sup>3</sup> pelle*	TWA: 20 ppm TWA: 133 mg/m <sup>3</sup> STEL: 50 ppm STEL: 333 mg/m <sup>3</sup> P*	TWA: 135 mg/m <sup>3</sup> STEL: 333 mg/m <sup>3</sup> H*	TWA: 20 ppm TWA: 130 mg/m <sup>3</sup> STEL: 50 ppm STEL: 330 mg/m <sup>3</sup> iho*	TWA: 20 ppm TWA: 134 mg/m <sup>3</sup> H*
Alcohol Derivative Solvent	-	TWA: 50 ppm	-	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup> STEL: 75 ppm STEL: 360 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup>
γ-Butyrolactone 96-48-0	-	-	-	TWA: 50 ppm TWA: 14 mg/m <sup>3</sup> STEL: 250 ppm STEL: 70 mg/m <sup>3</sup> iho*	-
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Butoxyethyl acetate 112-07-2	TWA: 20 ppm TWA: 133 mg/m <sup>3</sup> STEL 40 ppm STEL 270 mg/m <sup>3</sup> H*	TWA: 10 ppm TWA: 66 mg/m <sup>3</sup> STEL: 20 ppm STEL: 132 mg/m <sup>3</sup> H*	STEL: 300 mg/m <sup>3</sup> TWA: 100 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 65 mg/m <sup>3</sup> STEL: 20 ppm STEL: 97.5 mg/m <sup>3</sup> H*	TWA: 20 ppm TWA: 133 mg/m <sup>3</sup> STEL: 50 ppm STEL: 333 mg/m <sup>3</sup> Sk*

Alcohol Derivative Solvent	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup> H*	TWA: 20 ppm TWA: 96 mg/m <sup>3</sup> STEL: 40 ppm STEL: 192 mg/m <sup>3</sup> H*	TWA: 240 mg/m <sup>3</sup>	TWA: 25 ppm TWA: 120 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 150 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup> STEL: 75 ppm STEL: 360 mg/m <sup>3</sup>
----------------------------	---	---	----------------------------	--	--

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Butoxyethyl acetate 112-07-2	-	-	-	-	100 mg/L 200 mg/L
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Butoxyethyl acetate 112-07-2	-	100 200	-	-	-

**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. Face protection shield.

#### Skin and body protection

Suitable protective clothing. Apron. Gloves made of plastic or rubber. Wear chemical resistant clothing such as gloves, apron, boots or whole bodysuits made from neoprene, as appropriate. Antistatic footwear.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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

<b>Physical state</b>	liquid	<b>Odor</b>	Characteristic
<b>Appearance</b>	Liquid	<b>Odor threshold</b>	No information available
<b>Color</b>	Magenta		

#### Property

#### Values

#### Remarks • Method

pH		No information available
Melting point / freezing point		No information available
Boiling point / boiling range	146 °C / 295 °F	
Flash point	78 °C / 172 °F	
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		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	No information available	
Oxidizing properties	No information available	

### 9.2. Other information

<b>Softening point</b>	No information available
<b>Molecular weight</b>	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

Heat, flames and sparks.

### 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.

<b>Inhalation</b>	No data available.
<b>Eye contact</b>	No data available.
<b>Skin contact</b>	No data available.
<b>Ingestion</b>	No data available.

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

<b>ATEmix (oral)</b>	15,388.00 mg/kg
<b>ATEmix (dermal)</b>	2,065.00 mg/kg ppm mg/l
<b>ATEmix (inhalation-vapor)</b>	11.24 mg/l

#### **Unknown acute toxicity**

- 27.127195% of the mixture consists of ingredient(s) of unknown toxicity.
- 9.216795 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
- 9.441795 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
- 21.739205 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
- 27.127195 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
- 21.731795 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
---------------	-----------	-------------	-----------------

Butoxyethyl acetate	= 2400mg/kg ( Rat )	= 1500 mg/kg ( Rabbit )	
Alcohol Derivative Solvent	= 4 g/kg ( Rat )	= 13500 mg/kg ( Rabbit )	
$\gamma$ -Butyrolactone	= 1540 mg/kg ( Rat )		> 5100 mg/m <sup>3</sup> ( Rat ) 4 h
Toluene	= 2600 mg/kg ( Rat )	= 12000 mg/kg ( Rabbit )	= 12.5 mg/L ( Rat ) 4 h

<b>Skin corrosion/irritation</b>	No information available.
<b>Serious eye damage/eye irritation</b>	No information available.
<b>Sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Target Organ Effects</b>	blood, Central nervous system, Eyes, Hematopoietic System, kidney, liver, Respiratory system, Skin.
<b>Aspiration hazard</b>	No information available.

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Unknown Aquatic Toxicity 9.73179 % of the mixture consists of components(s) of unknown hazards to the aquatic environment  
 9.73179 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Alcohol Derivative Solvent	-	420: 96 h Lepomis macrochirus mg/L LC50 static 420: 96 h Lepomis macrochirus mg/L LC50	8750: 24 h Daphnia magna mg/L EC50
$\gamma$ -Butyrolactone	360: 72 h Desmodesmus subspicatus mg/L EC50	-	500: 48 h Daphnia magna Straus mg/L EC50

### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

No information available.

Chemical Name	Partition coefficient
Butoxyethyl acetate	1.51
Alcohol Derivative Solvent	1.03
$\gamma$ -Butyrolactone	-0.566

### 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

<b>Waste from residues/unused products</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated packaging</b>	Improper disposal or reuse of this container may be dangerous and illegal.
<b>Other Information</b>	Waste codes should be assigned by the user based on the application for which the product was used.

### Section 14: TRANSPORT INFORMATION

#### IMDG

<b>14.1 UN/ID no</b>	Not regulated
<b>14.2 Proper shipping name</b>	Not regulated
<b>14.3 Hazard Class</b>	Not regulated
<b>14.4 Packing Group</b>	Not regulated
<b>14.5 Marine pollutant</b>	Not applicable
<b>14.6 Special Provisions</b>	None
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	No information available

#### RID

<b>14.1 UN/ID no</b>	Not regulated
<b>14.2 Proper shipping name</b>	Not regulated
<b>14.3 Hazard Class</b>	Not regulated
<b>14.4 Packing Group</b>	Not regulated
<b>14.5 Environmental hazard</b>	Not applicable
<b>14.6 Special Provisions</b>	None

#### ADR

<b>14.1 UN/ID no</b>	Not regulated
<b>14.2 Proper shipping name</b>	Not regulated
<b>14.3 Hazard Class</b>	Not regulated
<b>14.4 Packing Group</b>	Not regulated
<b>14.5 Environmental hazard</b>	Not applicable
<b>14.6 Special Provisions</b>	None

#### IATA

<b>14.1 UN/ID no</b>	Not regulated
<b>14.2 Proper shipping name</b>	Not regulated
<b>14.3 Hazard Class</b>	Not regulated
<b>14.4 Packing Group</b>	Not regulated
<b>14.5 Environmental hazard</b>	Not applicable
<b>14.6 Special Provisions</b>	None

### Section 15: REGULATORY INFORMATION



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

Chemical Name	French RG number	Title
Butoxyethyl acetate 112-07-2	RG 84	-
Alcohol Derivative Solvent	RG 84	-
γ-Butyrolactone 96-48-0	RG 84	-

**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**

<b>TSCA</b>	Does not comply
<b>DSL/NDL</b>	Does not comply
<b>EINECS/ELINCS</b>	Does not comply
<b>ENCS</b>	Does not comply
<b>IECSC</b>	Does not comply
<b>KECL</b>	Does not comply
<b>PICCS</b>	Does not comply
<b>AICS</b>	Does not comply

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**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**

R36 - Irritating to eyes

R67 - Vapors may cause drowsiness and dizziness

R41 - Risk of serious damage to eyes

R22 - Harmful if swallowed

R20/21 - Harmful by inhalation and in contact with skin

**Full text of H-Statements referred to under section 3**

H312 - Harmful in contact with skin  
H332 - Harmful if inhaled  
H319 - Causes serious eye irritation  
H302 - Harmful if swallowed  
H318 - Causes serious eye damage  
H336 - May cause drowsiness or dizziness

**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** 03-Jun-2015

**Revision Date** 03-Jun-2015

**Revision Note** Not applicable.

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

**End of Safety Data Sheet**