

# SAFETY DATA SHEET

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

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Version 1

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

### 1.1. Product identifier

Product Name AM.CO.ZA Premium Ink Yellow

Contains gamma-Butyrolactone, Proprietary Acrylic Ester Derivative

### 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

#### Supplier

Advanced Machinery (Pty) Ltd

For further information, please contact

Contact Point Product safety department

### 1.4. Emergency telephone number

Emergency Telephone During normal opening times: 011 397 1429

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Serious eye damage/eye irritation	Category 1 - (H318)
Specific target organ toxicity (single exposure)	Category 3 - (H336)

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 gamma-Butyrolactone, Proprietary Acrylic Ester Derivative



#### Signal word

Danger

#### Hazard statements

H318 - Causes serious eye damage

H336 - May cause drowsiness or dizziness

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

P280 - Wear eye protection/ face protection

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

**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 Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Diethylene glycol diethyl ether	203-963-7	112-36-7	<40	Eye Irrit. 2 (H319)	No data available
gamma-Butyrolactone	202-509-5	96-48-0	<25	Acute Tox. 4 (H302) Eye Dam. 1 (H318) STOT SE 3 (H336)	No data available
Dipropylene glycol monomethyl ether	252-104-2	34590-94-8	<15	non Hazardous	No data available
Proprietary Acrylic Ester Derivative	Listed	-	<5	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Eye Dam. 1 (H318)	Not applicable
Yellow Pigment	Listed	-	<5	Not hazardous	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**

<b>Inhalation</b>	Remove to fresh air.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.
<b>Ingestion</b>	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 doctors** 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 vapours

### 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**

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Dipropylene glycol monomethyl ether 34590-94-8	TWA 50 ppm TWA 308 mg/m <sup>3</sup> *	TWA: 50 ppm TWA: 308 mg/m <sup>3</sup> STEL: 150 ppm STEL: 924 mg/m <sup>3</sup> Sk*	TWA: 50 ppm TWA: 308 mg/m <sup>3</sup> *	TWA: 50 ppm TWA: 308 mg/m <sup>3</sup> via dérmica*	TWA: 50 ppm TWA: 310 mg/m <sup>3</sup>
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
gamma-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*	-
Dipropylene glycol monomethyl ether 34590-94-8	TWA: 50 ppm TWA: 308 mg/m <sup>3</sup> pelle*	TWA: 50 ppm TWA: 308 mg/m <sup>3</sup> STEL: 150 ppm P*	TWA: 300 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 310 mg/m <sup>3</sup> iho*	TWA: 50 ppm TWA: 309 mg/m <sup>3</sup> H*
Yellow Pigment	-	-	-	TWA: 0.05 mg/m <sup>3</sup> TWA: 0.01 mg/m <sup>3</sup>	-
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Dipropylene glycol monomethyl ether 34590-94-8	TWA: 50 ppm TWA: 307 mg/m <sup>3</sup> STEL 100 ppm STEL 614 mg/m <sup>3</sup> H*	TWA: 50 ppm TWA: 300 mg/m <sup>3</sup> STEL: 50 ppm STEL: 300 mg/m <sup>3</sup>	STEL: 480 mg/m <sup>3</sup> TWA: 240 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 300 mg/m <sup>3</sup> STEL: 75 ppm STEL: 375 mg/m <sup>3</sup> H*	TWA: 50 ppm TWA: 308 mg/m <sup>3</sup> STEL: 150 ppm STEL: 924 mg/m <sup>3</sup> Sk*
Yellow Pigment	-	-	TWA: 0.25 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup> STEL: 0.15 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>

**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**

<b>Physical state</b>	liquid	<b>Odour</b>	Characteristic
<b>Appearance</b>	Liquid	<b>Odour threshold</b>	No information available
<b>Colour</b>	yellow		
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
<b>pH</b>		No information available	
<b>Melting point / freezing point</b>		No information available	
<b>Boiling point / boiling range</b>	100 °C / 212 °F	No information available	
<b>Flash point</b>	> 100 °C / > 212 °F	No information available	
<b>Evaporation rate</b>		No information available	
<b>Flammability (solid, gas)</b>		No information available	

<b>Flammability Limit in Air</b>		
Upper flammability limit:		No information available
Lower flammability limit		No information available
<b>Vapour pressure</b>		No information available
<b>Vapour density</b>		No information available
<b>Relative density</b>		No information available
<b>Water solubility</b>	Immiscible in water	No information available
<b>Solubility(ies)</b>		No information available
<b>Partition coefficient</b>		No information available
<b>Autoignition temperature</b>		No information available
<b>Decomposition temperature</b>		No information available
<b>Kinematic viscosity</b>		No information available
<b>Dynamic viscosity</b>		No information available
<b>Explosive properties</b>	Not an explosive	
<b>Oxidising properties</b>	Not applicable	

**9.2. Other information**

<b>Softening point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC Content (%)</b>	No information available
<b>Density</b>	No information available
<b>Bulk density</b>	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.

<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>	2,300.00
<b>ATEmix (dermal)</b>	4,475.00

**Unknown acute toxicity**

- 95.27699999 % of the mixture consists of ingredient(s) of unknown toxicity.
- 4.45099999 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
- 2.80099999 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
- 75.27699999 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
- 95.27699999 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour).
- 75.27699999 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Diethylene glycol diethyl ether	= 4970 mg/kg ( Rat )	= 6700 µL/kg ( Rabbit )	
Diethylene glycol methyl ethyl ether	= 6500 µL/kg ( Rat ) > 2000 mg/kg ( Rat )	= 7070 µL/kg ( Rabbit ) > 2000 mg/kg ( Rat )	> 5.14 mg/L ( Rat ) 4 h
gamma-Butyrolactone	= 1540 mg/kg ( Rat )		> 5100 mg/m <sup>3</sup> ( Rat ) 4 h
Dipropylene glycol monomethyl ether	= 5.35 g/kg ( Rat )	= 9500 mg/kg ( Rabbit )	
Proprietary Acrylic Ester Derivative	> 215-464 mg/kg ( Rat )	= 519 mg/kg ( Rabbit )	> 776 ppm ( Rat ) 1 h

<b>Skin corrosion/irritation</b>	No information available.
<b>Serious eye damage/eye irritation</b>	No information available.
<b>Sensitisation</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>	Central nervous system, Eyes, lungs, Nasal Cavities, Respiratory system, Skin.
<b>Aspiration hazard</b>	No information available.

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Unknown aquatic toxicity 65.376 % of the mixture consists of component(s) of unknown hazards to the aquatic environment  
65.376 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
gamma-Butyrolactone	360: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50 79: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50	220 - 460: 96 h <i>Leuciscus idus</i> mg/L LC50 static	500: 48 h <i>Daphnia magna</i> Straus mg/L EC50
Dipropylene glycol monomethyl ether	-	10000: 96 h <i>Pimephales promelas</i> mg/L LC50 static	1919: 48 h <i>Daphnia magna</i> mg/L LC50

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

No information available.

Chemical Name	Partition coefficient
gamma-Butyrolactone	-0.566
Dipropylene glycol monomethyl ether	-0.064

**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	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing Group	Not regulated
14.5 Marine pollutant	Not applicable
14.6 Special Provisions	None
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	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	None

**ADR**

14.1 UN/ID no	Not regulated
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<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

**France****Occupational Illnesses (R-463-3, France)**

Chemical Name	French RG number	Title
Diethylene glycol diethyl ether 112-36-7	RG 84	-
gamma-Butyrolactone 96-48-0	RG 84	-
Dipropylene glycol monomethyl ether 34590-94-8	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

**Authorisations and/or restrictions on use:**

This product contains one or more substance(s) 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**

**All of the components in the product are on the following Inventory lists** No information available.

**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**

H319 - Causes serious eye irritation

H301 - Toxic if swallowed



H311 - Toxic in contact with skin  
H318 - Causes serious eye damage  
H302 - Harmful if swallowed  
H336 - May cause drowsiness or dizziness

**Legend**

SVHC: Substances of Very High Concern for Authorisation:

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

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

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**Revision Note** Not applicable.

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

**End of Safety Data Sheet**