



## SAFETY DATA SHEET

### JAM6950 Black Ink

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

**Product name** JAM6950 Black Ink

**Product number** 71002118,71002115,71002117,71002116,71011516

**Container size** 6 x 1 Liter,2 x 4 Liter,5 Gallon Pail,5 Gallon Pail,55 Gallon Drum

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

**Identified uses** Printing ink.

**Uses advised against** No specific uses advised against are identified.

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

**Supplier** Matthews Marking Systems  
6515 Penn Avenue  
Pittsburgh, PA 15206  
412.665.2500  
412.828.4545  
info@matw.com

**Manufacturer** Matthews Marking Systems  
101 Fairview Ave.  
Pittsburgh, PA 15238

##### 1.4. Emergency telephone number

**Emergency telephone** Chemtrec US : 1-800-424-9300 Chemtrec World: 1-703-527-3887

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification

**Physical hazards** Flam. Liq. 2 - H225

**Health hazards** Eye Irrit. 2 - H319 STOT SE 3 - H336 STOT RE 2 - H373

**Environmental hazards** Not Classified

**Classification (67/548/EEC or 1999/45/EC)** F; R11. Xi; R36. R67

##### 2.2. Label elements

###### Pictogram



**Signal word**

**Danger**

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<b>Hazard statements</b>	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H373 May cause damage to organs through prolonged or repeated exposure.
<b>Comments</b>	Full list of Hazard Statements is found in Sec. 16
<b>Precautionary statements</b>	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280 Wear protective gloves/protective clothing/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. P308+P313 IF exposed or concerned: Get medical advice/attention. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/container in accordance with national regulations.
<b>Contains</b>	Ethyl acetate, EB Acetate
<b>Supplementary precautionary statements</b>	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P260 Do not breathe vapour/spray. P261 Avoid breathing vapour/spray. P264 Wash contaminated skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/doctor if you feel unwell. P314 Get medical advice/attention if you feel unwell. P337+P313 If eye irritation persists: Get medical advice/attention. P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.

### 2.3. Other hazards

#### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>Ethyl acetate</b>	<b>30-60%</b>
CAS number: 141-78-6	EC number: 205-500-4
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Flam. Liq. 2 - H225	F; R11. Xi; R36. R67, R66
Eye Irrit. 2 - H319	
STOT SE 3 - H336	

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<b>EB Acetate</b>		<b>30-60%</b>
CAS number: 112-07-2	EC number: 203-933-3	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Acute Tox. 4 - H312	Xn; R21, R68/20/21/22	
Acute Tox. 4 - H332		
STOT SE 3 - H336		
STOT RE 2 - H373		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	Consult a physician for specific advice. Show this Safety Data Sheet to the medical personnel.
<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Consult a physician for specific advice.
<b>Ingestion</b>	Consult a physician for specific advice.
<b>Skin contact</b>	Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing. Wash clothing and clean shoes thoroughly before reuse.
<b>Eye contact</b>	Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical attention.
<b>Protection of first aiders</b>	First aid personnel should wear appropriate protective equipment during any rescue.

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

<b>General information</b>	See Section 11 for additional information on health hazards.
<b>Inhalation</b>	Gas or vapour in high concentrations may irritate the respiratory system.
<b>Ingestion</b>	The product is considered to be a low hazard under normal conditions of use.
<b>Skin contact</b>	Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.
<b>Eye contact</b>	May irritate eyes.

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

<b>Notes for the doctor</b>	Treat symptomatically.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
<b>Unsuitable extinguishing media</b>	None known.

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

<b>Specific hazards</b>	Flammable liquid and vapour. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.
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**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO).

### 5.3. Advice for firefighters

**Protective actions during firefighting** Evacuate area. Stop leak if safe to do so. Use water to keep fire exposed containers cool and disperse vapours. Use water spray to reduce vapours.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

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

**Personal precautions** No smoking, sparks, flames or other sources of ignition near spillage. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapours. Wash thoroughly after dealing with a spillage.

### 6.2. Environmental precautions

**Environmental precautions** Avoid release to the environment.

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

**Methods for cleaning up** Eliminate all sources of ignition. Stop leak if safe to do so. Contain and absorb spillage with sand, earth or other non-combustible material. Dilute contained spill with water. Collect and place in suitable waste disposal containers and seal securely.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

**Advice on general occupational hygiene** Do not eat, drink or smoke when using this product. Provide eyewash station and safety shower. Good personal hygiene procedures should be implemented. Wash skin thoroughly after handling.

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

**Storage precautions** Keep only in the original container in a cool, well-ventilated place.

**Storage class** Flammable liquid storage.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

Ethyl acetate

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Long-term exposure limit (8-hour TWA): WEL 300 ppm 1050 mg/m<sup>3</sup> Austria  
 Long-term exposure limit (8-hour TWA): WEL 400 ppm 1461 mg/m<sup>3</sup> Belgium  
 Long-term exposure limit (8-hour TWA): WEL 150 ppm 540 mg/m<sup>3</sup> Denmark  
 Long-term exposure limit (8-hour TWA): WEL 300 ppm 1100 mg/m<sup>3</sup> Finland  
 Long-term exposure limit (8-hour TWA): WEL 400 ppm 1400 mg/m<sup>3</sup> France, Switzerland  
 Long-term exposure limit (8-hour TWA): WEL 400 ppm 1500 mg/m<sup>3</sup> Germany (AGS), Germany (DFG)  
 Long-term exposure limit (8-hour TWA): WEL 1400 mg/m<sup>3</sup> Hungary  
 Long-term exposure limit (8-hour TWA): WEL 200 ppm Ireland  
 Long-term exposure limit (8-hour TWA): WEL 200 mg/m<sup>3</sup> Latvia, Poland  
 Long-term exposure limit (8-hour TWA): WEL 400 ppm 1460 mg/m<sup>3</sup> Spain  
 Long-term exposure limit (8-hour TWA): WEL 150 ppm 500 mg/m<sup>3</sup> Sweden  
 Long-term exposure limit (8-hour TWA): WEL 200 ppm 730 mg/m<sup>3</sup> United Kingdom  
 Short-term exposure limit (15-minute): WEL 600 ppm 2100 mg/m<sup>3</sup> Austria  
 Short-term exposure limit (15-minute): WEL 300 ppm 1080 mg/m<sup>3</sup> Denmark  
 Short-term exposure limit (15-minute): WEL 500 ppm 1800 mg/m<sup>3</sup> Finland  
 Short-term exposure limit (15-minute): WEL 800 ppm 3000 mg/m<sup>3</sup> Germany (AGS), Germany (DFG)  
 Short-term exposure limit (15-minute): WEL 1400 mg/m<sup>3</sup> Hungary  
 Short-term exposure limit (15-minute): WEL 400 ppm Ireland  
 Short-term exposure limit (15-minute): WEL 600 mg/m<sup>3</sup> Poland  
 Short-term exposure limit (15-minute): WEL 300 ppm 1100 mg/m<sup>3</sup> Sweden  
 Short-term exposure limit (15-minute): WEL 800 ppm 2800 mg/m<sup>3</sup> Switzerland  
 Short-term exposure limit (15-minute): WEL 400 ppm 1460 mg/m<sup>3</sup> United Kingdom

### EB Acetate

Long-term exposure limit (8-hour TWA): WEL 20 ppm 133 mg/m<sup>3</sup> Austria, Belgium, European Union, Ireland, Italy, Latvia, Spain  
 Long-term exposure limit (8-hour TWA): WEL 20 ppm 130 mg/m<sup>3</sup> Denmark, Finland, Germany (AGS)  
 Long-term exposure limit (8-hour TWA): WEL 135 mg/m<sup>3</sup> Hungary, The Netherlands  
 Long-term exposure limit (8-hour TWA): WEL 100 mg/m<sup>3</sup> Poland  
 Long-term exposure limit (8-hour TWA): WEL 10 ppm 70 mg/m<sup>3</sup> Sweden  
 Long-term exposure limit (8-hour TWA): WEL 10 ppm 66 mg/m<sup>3</sup> Switzerland  
 Long-term exposure limit (8-hour TWA): WEL 20 ppm 147 mg/m<sup>3</sup> United Kingdom  
 Short-term exposure limit (15-minute): WEL 40 ppm 270 mg/m<sup>3</sup> Austria  
 Short-term exposure limit (15-minute): WEL 50 ppm 332 mg/m<sup>3</sup> Belgium, European Union, France, Ireland, Italy, Latvia, Spain  
 Short-term exposure limit (15-minute): WEL 40 ppm 260 mg/m<sup>3</sup> Denmark  
 Short-term exposure limit (15-minute): WEL 50 ppm 330 mg/m<sup>3</sup> Finland  
 Short-term exposure limit (15-minute): WEL 80 ppm 520 mg/m<sup>3</sup> Germany (AGS)  
 Short-term exposure limit (15-minute): WEL 20 ppm 132 mg/m<sup>3</sup> Germany (DFG)  
 Short-term exposure limit (15-minute): WEL 333 mg/m<sup>3</sup> Hungary, The Netherlands  
 Short-term exposure limit (15-minute): WEL 300 mg/m<sup>3</sup> Poland  
 Short-term exposure limit (15-minute): WEL 20 ppm 140 mg/m<sup>3</sup> Sweden  
 Short-term exposure limit (15-minute): WEL 20 ppm 132 mg/m<sup>3</sup> Switzerland  
 Short-term exposure limit (15-minute): WEL 50 ppm 367 mg/m<sup>3</sup> United Kingdom  
 Sk

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

## 8.2. Exposure controls

### Protective equipment



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<b>Appropriate engineering controls</b>	As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist. Use explosion-proof ventilating equipment.
<b>Eye/face protection</b>	Wear tight-fitting, chemical splash goggles or face shield.
<b>Hand protection</b>	It is recommended that chemical-resistant, impervious gloves are worn. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. It is recommended that gloves are made of the following material: Butyl rubber. Nitrile rubber. Rubber (natural, latex). Frequent changes are recommended.
<b>Other skin and body protection</b>	Wear appropriate clothing to prevent repeated or prolonged skin contact.
<b>Hygiene measures</b>	Provide eyewash station and safety shower.
<b>Respiratory protection</b>	If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Organic vapour filter.
<b>Thermal hazards</b>	If there is a risk of contact with hot product, all protective equipment worn should be suitable for use with high temperatures.
<b>Environmental exposure controls</b>	Keep container tightly sealed when not in use. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

### SECTION 9: Physical and Chemical Properties

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

<b>Appearance</b>	Coloured liquid.
<b>Colour</b>	Black.
<b>Odour</b>	Sweetish. Ester.
<b>Odour threshold</b>	Not available.
<b>pH</b>	pH (concentrated solution): 6.0 - 8.5
<b>Melting point</b>	-83°C/-117°F
<b>Initial boiling point and range</b>	78°C/172°F @ 760 mm Hg
<b>Flash point</b>	2°C/36°F CC (Closed cup).
<b>Evaporation rate</b>	4.1 (butyl acetate = 1)
<b>Upper/lower flammability or explosive limits</b>	Upper flammable/explosive limit: 11 % vol Lower flammable/explosive limit: 2.2 % vol
<b>Vapour pressure</b>	86 mm Hg @ 20°C/68°F
<b>Vapour density</b>	3
<b>Relative density</b>	0.944 g/ml 944 g/l 787 lbs/gal
<b>Solubility(ies)</b>	Soluble in the following materials: Esters. Slightly soluble in water.
<b>Partition coefficient</b>	log Pow: 0.73
<b>Auto-ignition temperature</b>	340°C/644°F
<b>Decomposition Temperature</b>	Not applicable.
<b>Explosive properties</b>	Not applicable.

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<b>Oxidising properties</b>	Not applicable.
<b>Comments</b>	Data based on literature. Product not tested. Information given is applicable to the product as supplied. Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures.

### 9.2. Other information

<b>Volatile organic compound</b>	This product contains a maximum VOC content of 883 g/l. This product contains a maximum VOC content of 7.39 lbs/gal.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
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### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
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### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	The following materials may react with the product: Strong acids. Strong alkalis. Strong oxidising agents.
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### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid the following conditions: Heat, sparks, flames.
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### 10.5. Incompatible materials

<b>Materials to avoid</b>	Avoid contact with the following materials: Strong acids. Strong alkalis. Strong oxidising agents.
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### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	Heating may generate the following products: Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO).
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Toxicological effects</b>	Data based on literature. Product not tested.
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#### Acute toxicity - dermal

<b>ATE dermal (mg/kg)</b>	2,365.59
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#### Acute toxicity - inhalation

<b>ATE inhalation (vapours mg/l)</b>	23.66
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#### Specific target organ toxicity - single exposure

<b>Target organs</b>	Eyes Respiratory system, lungs Skin
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#### Specific target organ toxicity - repeated exposure

<b>Target organs</b>	Gastro-intestinal tract Skin
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#### Aspiration hazard

<b>Aspiration hazard</b>	Not anticipated to present an aspiration hazard, based on chemical structure.
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#### Toxicological information on ingredients.

#### Ethyl acetate

#### Acute toxicity - oral

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<b>Notes (oral LD<sub>50</sub>)</b>	LD <sub>50</sub> 5600 mg/kg, Oral, Rat
<b><u>Acute toxicity - dermal</u></b>	
<b>Notes (dermal LD<sub>50</sub>)</b>	LD <sub>50</sub> > 20 ml, kg, Dermal, Rabbit
<b><u>Acute toxicity - inhalation</u></b>	
<b>Notes (inhalation LC<sub>50</sub>)</b>	LD <sub>50</sub> 16,000 ppm, Inhalation, Rat

### EB Acetate

<b><u>Acute toxicity - oral</u></b>	
<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	2,400.0
<b>Species</b>	Rat
<b>ATE oral (mg/kg)</b>	2,400.0
<b><u>Acute toxicity - dermal</u></b>	
<b>ATE dermal (mg/kg)</b>	1,100.0
<b><u>Acute toxicity - inhalation</u></b>	
<b>ATE inhalation (vapours mg/l)</b>	11.0
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen
<b>IARC carcinogenicity</b>	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen
<b>NTP carcinogenicity</b>	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen

## SECTION 12: Ecological Information

**Ecotoxicity** Data based on literature. Product not tested.

### Ecological information on ingredients.

#### EB Acetate

**Ecotoxicity** No information available.

### 12.1. Toxicity

#### Ecological information on ingredients.

#### Ethyl acetate

**Acute toxicity - fish** LC<sub>50</sub>, 48 hours: 270 mg/l, Leuciscus idus (Golden orfe)  
LC<sub>50</sub>, 48 hours: 333 mg/l, Leuciscus idus (Golden orfe)



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**Acute toxicity - aquatic invertebrates**

LC<sub>50</sub>, 24 hours: 3090 mg/l, Daphnia magna  
EC<sub>50</sub>, 24 hours: 3090 mg/l, Daphnia magna

### 12.2. Persistence and degradability

### 12.3. Bioaccumulative potential

Partition coefficient                      log Pow: 0.73

### Ecological information on ingredients.

#### Ethyl acetate

Partition coefficient                      Pow: 5.4 log Pow: 0.73

### 12.4. Mobility in soil

### 12.5. Results of PBT and vPvB assessment

### 12.6. Other adverse effects

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information**                      Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

**Disposal methods**                      Dispose of contents/container in accordance with national regulations. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. When handling waste, the safety precautions applying to handling of the product should be considered.

## SECTION 14: Transport information

### 14.1. UN number

UN No. (ADR/RID)                      1210

UN No. (IMDG)                          1210

UN No. (ICAO)                          1210

UN No. (ADN)                          1210

### 14.2. UN proper shipping name

Proper shipping name                      PRINTING INK  
(ADR/RID)

Proper shipping name                      PRINTING INK  
(IMDG)

Proper shipping name (ICAO)              PRINTING INK

Proper shipping name (ADN)              PRINTING INK

### 14.3. Transport hazard class(es)

ADR/RID class                          3

ADR/RID classification code              F1

ADR/RID label                          3

IMDG class                              3

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ICAO class/division 3

ADN class 3

### Transport labels



### 14.4. Packing group

ADR/RID packing group II

IMDG packing group II

ICAO packing group II

ADN packing group II

### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

EmS F-E, S-D

ADR transport category 2

Emergency Action Code •3YE

Hazard Identification Number 33  
(ADR/RID)

Tunnel restriction code (D/E)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

## SECTION 15: Regulatory information

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

**EU legislation** Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

### 15.2. Chemical safety assessment

#### Inventories

##### EU - EINECS/ELINCS

All the ingredients are listed or exempt.

##### Canada - DSL/NDSL

All the ingredients are listed or exempt.

##### US - TSCA

All the ingredients are listed or exempt.

##### Australia - AICS

The following ingredients are listed or exempt:

**EB Acetate**

**Ethyl acetate**

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### Japan - MITI

The following ingredients are listed or exempt:

**EB Acetate**

**Ethyl acetate**

### Korea - KECI

The following ingredients are listed or exempt:

**EB Acetate**

### China - IECSC

The following ingredients are listed or exempt:

### Philippines – PICCS

The following ingredients are listed or exempt:

## SECTION 16: Other information

<b>General information</b>	Containers of this material may be hazardous when emptied, all hazard precautions given in the data sheet must be observed.
<b>Issued by</b>	Matthews Marking Systems - Chemical Services Department
<b>Revision date</b>	31/12/2015
<b>Revision</b>	2
<b>Supersedes date</b>	01/06/2015
<b>SDS number</b>	4979
<b>SDS status</b>	Approved.
<b>Risk phrases in full</b>	R11 Highly flammable. R20/21 Harmful by inhalation and in contact with skin. R36 Irritating to eyes. R66 Repeated exposure may cause skin dryness or cracking. R67 Vapours may cause drowsiness and dizziness.
<b>Hazard statements in full</b>	H225 Highly flammable liquid and vapour. H312 Harmful in contact with skin. H319 Causes serious eye irritation. H332 Harmful if inhaled. H336 May cause drowsiness or dizziness. H373 May cause damage to organs through prolonged or repeated exposure. H373 May cause damage to organs (Skin) through prolonged or repeated exposure.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.