



## SAFETY DATA SHEET

### M318 Black Offset Ink

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

##### 1.1. Product identifier

Product name M318 Black Offset Ink  
 Product number 71000466  
 Container size 6 x 1 Liter

##### 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 Not Classified  
 Health hazards Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Repr. 2 - H361  
 Environmental hazards Aquatic Chronic 3 - H412

Classification (67/548/EEC or 1999/45/EC) Xn; R20. Xi; R38. Carc. Cat. 3 R40. Repr. Cat. 3 R62, R63. R52/53

##### 2.2. Label elements

###### Pictogram



Signal word Warning

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<b>Hazard statements</b>	H315 Causes skin irritation. H332 Harmful if inhaled. H361 Suspected of damaging fertility or the unborn child. H412 Harmful to aquatic life with long lasting effects.
<b>Comments</b>	Full list of Hazard Statements is found in Sec. 16
<b>Precautionary statements</b>	P261 Avoid breathing vapour/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P308+P313 IF exposed or concerned: Get medical advice/attention. P332+P313 If skin irritation occurs: Get medical advice/attention. P501 Dispose of contents/container in accordance with national regulations.
<b>Contains</b>	Mineral Seal Oil, Tritolyl Phosphate
<b>Supplementary precautionary statements</b>	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P264 Wash contaminated skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/doctor if you feel unwell. P321 Specific treatment (see medical advice on this label). P362+P364 Take off contaminated clothing and wash it before reuse. P405 Store locked up.

### 2.3. Other hazards

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

##### 3.2. Mixtures

<b>Mineral Seal Oil</b>	<b>30-60%</b>
CAS number: 64742-46-7	EC number: 265-148-2
<b>Classification</b>	
Acute Tox. 3 - H331	
Skin Irrit. 2 - H315	
<b>Tritolyl Phosphate</b>	<b>1-5%</b>
CAS number: 1330-78-5	EC number: 215-548-8
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Acute Tox. 3 - H311	T; R24. Xn; R68/20/21/22. Repr. Cat. 3 R62, R63. N; R51/53
Acute Tox. 3 - H331	
Repr. 2 - H361	
STOT SE 2 - H371	
Aquatic Chronic 2 - H411	

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

**General information** Consult a physician for specific advice. Show this Safety Data Sheet to the medical personnel.

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<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. Get medical attention immediately.
<b>Ingestion</b>	Do not induce vomiting. Aspiration hazard if swallowed. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Get medical attention immediately.
<b>Skin contact</b>	Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Take off contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur 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>	May cause respiratory system irritation. Vapours may irritate throat/respiratory system.
<b>Ingestion</b>	Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis. Liquid irritates mucous membranes and may cause abdominal pain if swallowed.
<b>Skin contact</b>	May be slightly irritating to skin. Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.
<b>Eye contact</b>	May cause eye irritation. Vapour or spray in the eyes may cause irritation and smarting.

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

### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	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.
<b>Special protective equipment for firefighters</b>	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

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**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

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

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.

#### Eye/face protection

Wear tight-fitting, chemical splash goggles or face shield.

#### Hand protection

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.

#### Other skin and body protection

Wear appropriate clothing to prevent repeated or prolonged skin contact.

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<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>	Hydrocarbons.
<b>Odour threshold</b>	Not available.
<b>pH</b>	pH (concentrated solution): 6.0 - 8.5
<b>Melting point</b>	-46°C/-51°F
<b>Initial boiling point and range</b>	150°C/302°F @ 760 mm Hg
<b>Flash point</b>	135°C/275°F CC (Closed cup).
<b>Evaporation rate</b>	> 1 (butyl acetate = 1)
<b>Upper/lower flammability or explosive limits</b>	Upper flammable/explosive limit: 6 % vol Lower flammable/explosive limit: 1 % vol
<b>Vapour pressure</b>	0.01 mm Hg @ 20°C/68°F
<b>Vapour density</b>	> 1
<b>Relative density</b>	1.027 g/cc 1027 g/l 8.55 lbs/gal
<b>Solubility(ies)</b>	Soluble in the following materials: Hydrocarbons. Insoluble in water.
<b>Partition coefficient</b>	log Pow: 3.9
<b>Auto-ignition temperature</b>	220°C/428°F
<b>Decomposition Temperature</b>	Not applicable.
<b>Explosive properties</b>	Not applicable.
<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 487 g/l. This product contains a maximum VOC content of 4.06 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

**Stability** Stable at normal ambient temperatures and when used as recommended.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** The following materials may react with the product: Strong acids. Strong oxidising agents.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid the following conditions: Heat, sparks, flames.

### 10.5. Incompatible materials

**Materials to avoid** Avoid contact with the following materials: Strong acids. Strong oxidising agents.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Heating may generate the following products: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Toxicological effects** Data based on literature. Product not tested.

#### Acute toxicity - dermal

**ATE dermal (mg/kg)** 9,146.34

#### Acute toxicity - inhalation

**ATE inhalation (vapours mg/l)** 14.34

#### Specific target organ toxicity - single exposure

**Target organs** Eyes Respiratory system, lungs Skin

#### Specific target organ toxicity - repeated exposure

**Target organs** No specific target organs known.

#### Aspiration hazard

**Aspiration hazard** Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

### Toxicological information on ingredients.

#### Mineral Seal Oil

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 5,000.0

**Species** Rat

**ATE oral (mg/kg)** 5,000.0

##### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 2,001.0

**Species** Rabbit

**ATE dermal (mg/kg)** 2,001.0

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### Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l) 7.2

Species Rat

ATE inhalation (vapours mg/l) 7.2

### Tritolyl Phosphate

### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 3,000.0

Species Rat

ATE oral (mg/kg) 3,000.0

### Acute toxicity - dermal

ATE dermal (mg/kg) 300.0

### Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 3.0

### Carcinogenicity

IARC carcinogenicity Not listed.

NTP carcinogenicity Not listed.

## SECTION 12: Ecological Information

Ecotoxicity Data based on literature. Product not tested.

### Ecological information on ingredients.

#### Mineral Seal Oil

Ecotoxicity Toxic to aquatic life.

#### Tritolyl Phosphate

Ecotoxicity Very toxic to aquatic life with long lasting effects.

### 12.1. Toxicity

### 12.2. Persistence and degradability

### Ecological information on ingredients.

#### Mineral Seal Oil

Persistence and degradability The degradability of the product is not known.

### 12.3. Bioaccumulative potential

Partition coefficient log Pow: 3.9

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### Ecological information on ingredients.

#### Mineral Seal Oil

**Bioaccumulative potential** Not known.

#### 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

##### **General**

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

#### 14.1. UN number

Not applicable.

#### 14.2. UN proper shipping name

Not applicable.

#### 14.3. Transport hazard class(es)

No transport warning sign required.

#### 14.4. Packing group

Not applicable.

#### 14.5. Environmental hazards

##### **Environmentally hazardous substance/marine pollutant**

No.

#### 14.6. Special precautions for user

Not applicable.

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78  
and the IBC Code

### SECTION 15: Regulatory information

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



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### 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/NDL

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:

##### Japan - MITI

The following ingredients are listed or exempt:

##### Korea - KECI

The following ingredients are listed or exempt:

##### China - IECSC

The following ingredients are listed or exempt:

##### Philippines – PICCS

The following ingredients are listed or exempt:

### SECTION 16: Other information

#### General information

Containers of this material may be hazardous when emptied, all hazard precautions given in the data sheet must be observed.

#### Issued by

Matthews Marking Systems - Chemical Services Department

#### Revision date

31/12/2015

#### Revision

2

#### Supersedes date

01/06/2015

#### SDS number

5666

#### SDS status

Approved.

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### Risk phrases in full

R20 Harmful by inhalation.  
R24 Toxic in contact with skin.  
R38 Irritating to skin.  
R40 Limited evidence of a carcinogenic effect.  
R45 May cause cancer.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R62 Possible risk of impaired fertility.  
R63 Possible risk of harm to the unborn child.  
R68/20/21/22 Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

### Hazard statements in full

H311 Toxic in contact with skin.  
H315 Causes skin irritation.  
H331 Toxic if inhaled.  
H332 Harmful if inhaled.  
H361 Suspected of damaging fertility or the unborn child.  
H371 May cause damage to organs (Nervous system, Respiratory tract, Gastro-intestinal tract, Skin).  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

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.