

**Section 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product name **Smart-Jet® 80318**

Synonym(s) Not available.

Registration number REACH Not applicable (mixture)

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

Recommended use Ink for inkjet printing

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

Company identification **MSSC, LLC.**  
926 McDonough Lake Road, Collinsville, IL 62234, USA  
Tel: 618-343-1006  
Website: www.msscllc.com

**1.4. Emergency telephone number**

Phone number: 618-343-1006

**Section 2: Hazard(s) identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008 [CLP]:**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

**2.2. Label elements****Labeling according to Regulation (EC) No 1272/2008 [CLP]:**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

**2.3. Other hazards**

PBT Substances None

vPvB Substances: None

Other hazards No other hazards

**Section 3: Composition/information on ingredients**

**3.1. Substance** No

**3.2. Mixtures**

Hazardous Components (Chemical Name)/ REACH Registration No.	CAS Number	Concentration (%)	EC No./ EC index No	Classification
Water	7732-18-5	>79	231-791-2	Not Classified
1,2 hexanediol	6920-22-5	≤5	230-029-6	Eye Irrit. 2,H319
1,3-propanediol	504-63-2	≤10	207-997-3	Not Classified

**Section 4: First-aid measures**

**4.1. Description of first aid measures**

**In case of:**

Inhalation	No data available
Skin contact	Wash off with soap and plenty of water.
Eye contact	Flush eyes with water as a precaution.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water.

**4.2. Most important symptoms/ effects, acute and delayed**

See section 11

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

No special treatment needed, treat symptomatically.

**Section 5. Fire-fighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media** sand, carbon dioxide (CO2) or dry chemical.

**Unsuitable extinguishing media** Not available.

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

Not available.

**5.3. Advice for firefighters**

Wear suitable protective suit and self-contained breathing apparatus.

**Section 6: Accidental release measures**

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

Wear appropriate personal protective equipment as specified in section 8.

**6.2. Environmental precautions**

Do not flush into surface water or sanitary sewer system.

**6.3. Methods and materials for containment and cleaning up**

Absorb or cover with dry earth, sand or other non-combustible material and transfer to sealable containers for disposal.

**6.4. Reference to other sections**

For further and detailed information see section 8 and 13.

**Section 7. Handling and storage**

**7.1 Precautions for safe handling** For further precautions information see section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities** Keep containers tightly closed in a dry, cool and well-ventilated place.

**7.3 Specific end uses** No specific uses are stipulated.

**Section 8. Exposure controls/personal protection**

**8.1 Control parameters National limit values**

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Notation	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Source

	1,3-propanediol	504-63-2	Data are not available		
	1,2 hexanediol	6920-22-5	Data are not available		
<b>Relevant DNELs/DMELs/PNECs and other threshold levels</b>					
• human health values					
	End point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
1,3-propanediol	DNEL	12 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic – systemic effects
	DNEL	200 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
1,2 hexanediol	DNEL	17.5 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
	DNEL	123 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
• environmental values					
	End point	Threshold level	Environmental compartment		
1,3-propanediol	PNEC	7,417 mg/l	freshwater		
	PNEC	0,742 mg/l	marine water		
	PNEC	6000 mg/l	sewage treatment plant (STP)		
	PNEC	26,96 mg/kg	freshwater sediment		
	PNEC	1,488 mg/kg	soil		

## 8.2 Exposure controls

### Individual protection measures, such as personal protective equipment

#### Eye/face protection



Wear safety glasses; chemical goggles (if splashing is possible).  
Eye wash fountain and emergency showers are recommended.

#### Skin and body protection

Protective suit, Safety shoes.

#### Hand protection



Wear appropriate chemical resistant gloves.

#### Respiratory protection

Provide adequate ventilation.

#### Thermal hazards

Not available.

#### General hygiene considerations

When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.  
Launder contaminated clothing before reuse.

## Section 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Black liquid.
<b>Odor</b>	Characteristic
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point;</b>	Not available.

<b>Initial boiling point and boiling range</b>	>90°C
<b>Flash point</b>	>93.3°C (closed-cup)
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit – lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit – lower (%)</b>	Not available.
<b>Explosive limit – upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	Miscible in water.
<b>Partition coefficient: n-octanol/water</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity (cPs)</b>	Not available.
<b>9.2 Other information</b>	Not available.

## Section 10. Stability and reactivity

<b>10.1 Reactivity</b>	Not available.
<b>10.2 Chemical stability</b>	Stable at normal conditions.
<b>10.3 Possibility of hazardous reactions</b>	None known.
<b>10.4 Conditions to avoid</b>	Not available.
<b>10.5 Incompatible materials</b>	Not available.
<b>10.6 Hazardous decomposition products</b>	Hazardous combustion products: see section 5

## Section 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity value

Components	Species	Test results
<b>1,2 hexanediol (6920-22-5)</b>		
Oral (LD50)	Rat - male	5.339 - 6.470 mg/kg
	Rat - female	6.166 mg/kg
<b>1,3-propanediol (CAS 504-63-2)</b>		
Oral (LD50)	Rat-Male and female	10.500 mg/kg
Dermal (LD50)	Rat-Male and female	>4.200 mg/kg
<b>Skin corrosion/irritation</b>	No	

**Serious eye damage/eye irritation**

1,2 hexanediol (6920-22-5) Rabbit Irritating to eyes.

**Respiratory sensitization** No

**Skin sensitization** No

**Germ cell mutagenicity** No

**Carcinogenicity** No

**Specific target organ toxicity - single exposure** No

**Specific target organ toxicity - repeated exposure** No

**Aspiration hazard** No

**Section 12. Ecological information****12.1 Toxicity****Aquatic toxicity**

Components		Species	Test Results
<b>1,2 hexanediol (CAS 6920-22-5)</b>			
Fish	LC50	Oncorhynchus mykiss (rainbow trout)	> 1,000 mg/l
Daphnia and other aquatic invertebrates	EC10	Freshwater algae	> 110 mg/L - 48h
Microorganisms	EC0	Activated sludge	>1000 mg/L – 3h
<b>1,3-propanediol (CAS 504-63-2)</b>			
Fish	LC50	Pimephales promelas (fathead minnow)	>9.720 mg/l - 96 h
Daphnia and other aquatic invertebrates	EC50	Daphnia magna (Water flea)	7.417 mg/l - 48 h
Algae	EC50	Desmodesmus subspicatus (green algae)	1.600 mg/l - 72 h

**12.2 Persistence and degradability** Not available.

**12.3 Bioaccumulative potential** Not available.

**12.4 Mobility in soil** Not available.

**12.5 Results of PBT and vPvB assessment** Not available.

**12.6 Other adverse effects** Not available.

**Section 13. Disposal considerations****13.1 Waste treatment methods**

**Product** Dispose of waste material in accordance with local, state and federal pollution regulations.

**Contaminated packaging** When disposing of an empty container, dispose after removing contents materials completely. Only store in correctly labelled containers.

**Section 14. Transport information**

<b>ADR/RID:</b>	Not dangerous goods
<b>IMDG:</b>	Not dangerous goods
<b>ICAO-IATA/DGR</b>	Not dangerous goods

## Section 15 - Regulatory Information

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

<b>EU legislation</b>	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).
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<b>Guidance</b>	Workplace Exposure Limits EH40. Safety Data Sheets for Substances and Preparations.
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### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## Section 16 - Other Information

<b>Issue date</b>	27-June-2019
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