

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

Product name **Smart-Jet® 81702**

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](http://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**

**Product definition : 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.

**Additional Labelling**

EUH210: Safety data sheet available on request.

**2.3. Other hazards**

PBT Substances None

vPvB Substances: None

Other hazards The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

**3.1. Substance** No

### 3.2. Mixtures

Hazardous Components (Chemical Name)/ REACH Registration No.	CAS Number	EC Number	Concentration (%)	Classification
Water	7732-18-5	231-791-2	≤85	Not Classified
1,2 hexanediol	6920-22-5	230-029-6	≤10	Eye Irrit. 2,H319
Diethylene glycol	111-46-6	203-872-2	≤5	Acute Tox. 4: H302

## Section 4: First-aid measures

### 4.1. Description of first aid measures

#### In case of:

Inhalation	Move person to fresh air immediately. If symptoms persist, get immediate medical attention.
Skin contact	In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water. Wash clothing separately before reuse. Get medical attention, if needed.
Eye contact	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately.
Ingestion	Rinse mouth out with water. If the material is swallowed, get immediate medical attention or advice - Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in 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 (CO<sub>2</sub>), or dry chemical.

**Unsuitable extinguishing media** Not available.

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

In case of fire, smoke and other combustion products may be formed, the inhalation of such combustion products can have serious adverse effects on health.

### 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

For non-emergency personnel

- (a) the wearing of suitable protective equipment (including personal protective equipment referred to under section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing;
- (b) removal of ignition sources, provision of sufficient ventilation, control of dust; and
- (c) emergency procedures such as the need to evacuate the danger area or to consult an expert.

For personal protection see 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. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

**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**

**Advice on protection against fire and explosion**

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

**Hygiene measures**

Change contaminated clothing. Wash hands after working with substance. 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. Keep away from heat, sparks and flame.

**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/m³]	STEL [ppm]	STEL [mg/m³]	Source
GB	Diethylene Glycol	111-46-6		WEL	23	101			EH40/2005
	1,2 hexanediol	6920-22-5	Data are not available						

**Notation**

**STEL** Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

**TWA** Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

**i** Inhalable fraction

**r** Respirable fraction

**particle** as airborne particles

**H** absorbed through the skin

**Relevant DNELs/DMELs/PNECs and other threshold levels**

- human health values

	End point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
1,2 hexanediol	DNEL	17.5 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
	DNEL	123 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Diethylene Glycol	DNEL	106 mg/kg	human, dermal	worker (industry)	chronic - systemic effects

- environmental values

	End point	Threshold level	Environmental compartment
Diethylene Glycol	PNEC	10 mg/l	freshwater
	PNEC	1 mg/l	marine water
	PNEC	10 mg/l	sewage treatment plant (STP)

**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. In case of insufficient ventilation wear suitable respiratory equipment.

### Thermal hazards

Not available.

### General hygiene considerations

Do not get this material in contact with skin. Avoid contact with skin, eyes and clothing.

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

Physical state	Liquid
Color	Black
Odor	Characteristic
Melting point/freezing point;	Not available.
Boiling point or initial boiling point and boiling range	>90°C
Flammability (solid, gas)	Not available.
Lower and upper explosion limit	Not available.
Flash point	>93.3°C (closed-cup)
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
pH	8-10
Viscosity (cPs)	Not available.
Solubility(ies)	Soluble in water
Partition coefficient n-octanol/water (log value)	Not available.
Vapor pressure	Not available.
Density and/or relative density	Not available.
Relative vapour density	Not available.

Particle characteristics Not available.

9.2 Other information Not available.

## Section 10. Stability and reactivity

10.1 Reactivity Not available.

10.2 Chemical stability Stable at normal conditions.

10.3 Possibility of hazardous reactions None known.

10.4 Conditions to avoid Heat, flames and sparks.

10.5 Incompatible materials Not available.

10.6 Hazardous decomposition products Hazardous combustion products: see section 5

## Section 11. Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### 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
Dermal (LD50)	Rat - female	6.166 mg/kg

#### Diethylene Glycol (CAS 111-46-6)

Oral (LD50)	Rat (male and female)	500.1 mg/kg
Dermal (LD50)	Rabbit	11,890 mg/kg

Skin corrosion/irritation Not available.

Serious eye damage/eye irritation Not available.

Respiratory or skin sensitisation Not available.

Germ cell mutagenicity Not available.

Carcinogenicity Not available.

Reproductive toxicity Not available.

STOT-single exposure; Not available.

STOT-repeated exposure; Not available.

Aspiration hazard Not available.

### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

Not available.

#### 11.2.2 Other information

Not available.

## Section 12. Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

Components	Species	Test Results
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**1,2 hexanediol (CAS 6920-22-5)**

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

**Diethylene Glycol (CAS 111-46-6)**

Fish	LC50	Pimephales promelas (fathead minnow)	75,200 mg/l - 96 h
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**12.2 Persistence and degradability**

Data are not available.

**12.3 Bioaccumulative potential**

Does not significantly accumulate in organisms.

**12.4 Mobility in soil**

Data are not available.

**12.5 Results of PBT and vPvB assessment**

According to the results of its assessment, this substance is not a PBT or a vPvB

**12.6 Endocrine disrupting properties**Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq 0,1\%$ .**12.7 Other adverse effects**

Data are 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****14.1 UN number**

ADR/RID: -                      AND:-                      IMDG: -                      IATA: -

**14.2 UN proper shipping name**

ADR/RID: Not dangerous goods                      AND: Not dangerous goods                      IMDG: Not dangerous goods                      IATA: Not dangerous goods

**14.3 Transport hazard class(es)**

ADR/RID: -                      AND: -                      IMDG: -                      IATA: -

**14.4 Packing group**

ADR/RID: -                      AND: -                      IMDG: -                      IATA: -

**14.5 Environmental hazards**

ADR/RID: None                      AND: None                      IMDG: None                      IATA: None

**14.6 Special precautions for user**

Not applicable

**14.7 Maritime transport in bulk according to IMO instruments**

Not applicable

**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).

**Guidance** Workplace Exposure Limits EH40. Safety Data Sheets for Substances and Preparations.

**15.2. Chemical safety assessment** No chemical safety assessment has been carried out.

**Section 16 - Other Information**

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**Version #** 6.2

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