

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

Product name **Smart-Jet® 80320**

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**

**Product definition : Mixture**

**Classification according to Regulation (EC) No 1272/2008 [CLP]:**

Physical hazards Flammable liquids. Category 3, H226

Health hazards None

**2.2. Label elements**

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

Pictograms



GHS02

Signal word

**Warning**

Hazard statements

H226- Flammable liquid and vapor.

Precautionary statements

Prevention

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P233 - Keep container tightly closed.  
P240 - Ground/Bond container and receiving equipment.  
P241 - Use explosion-proof electrical/ventilating/lighting/equipment.  
P242 - Use only non-sparking tools.  
P264 - Wash thoroughly after handling.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response

P303+P361+P353- IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].  
P370+P378- In case of fire: for small fires, use dry chemical, carbon dioxide,

water spray or alcohol-resistant foam to extinguish. For large fires, use water spray, fog, or alcohol-resistant foam to extinguish. Use water spray to cool fire-exposed containers. Water may be ineffective. Do NOT use straight streams of water.

Storage P403 + P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.

Disposal P501- Dispose of contents/container in accordance with local/regional/national/international regulations.

### 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 59(1) 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 No	Concentration (%)	Classification
Water	7732-18-5	231-791-2	>72	Not Classified
Propylene glycol	57-55-6	200-338-0	<10	Not Classified
Ethanol	64-17-5	200-578-6	<10	Flam. Liq. 2, H225 Eye Irrit. 2, H319
Glycerol	56-81-5	200-289-5	<5	Not Classified
FD&C Green 3	2353-45-9	219-091-5	≤3	Not Classified

## 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/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Source
IE	Propylene glycol	57-55-6		OELV	150	470 10			S.I. No. 619 of 2001
	Ethanol	64-17-5	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

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

- human health values

	End point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Ethanol	DNEL	1.900 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute- systemic effects
	DNEL	343 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
	DNEL	950 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Propylene glycol	DNEL	168 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects

- environmental values

	End point	Threshold level	Environmental compartment
Ethanol	PNEC	0,79 mg/cm <sup>3</sup>	marine water
	PNEC	2,75 mg/cm <sup>3</sup>	air
	PNEC	3,6 mg/cm <sup>3</sup>	freshwater sediment
	PNEC	580 mg/cm <sup>3</sup>	sewage treatment plant (STP)
	PNEC	0,63 mg/cm <sup>3</sup>	soil
	PNEC	0,96 mg/cm <sup>3</sup>	freshwater
Propylene glycol	PNEC	50 mg/kg	soil
	PNEC	260 mg/l	freshwater
	PNEC	26 mg/L	marine water
	PNEC	20 000 mg/L	sewage treatment plant (STP)
	PNEC	572 mg/kg	Fresh water sediment

**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

<b>Physical state</b>	Liquid
<b>Color</b>	Green
<b>Odor</b>	Characteristic
<b>Melting point/freezing point;</b>	Not available.
<b>Boiling point or initial boiling point and boiling range</b>	>70°C at 1,013 hPa - lit.
<b>Flammability (solid, gas)</b>	Not available.
<b>Lower and upper explosion limit</b>	Not available.
<b>Flash point</b>	60°C (closed-cup)
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>pH</b>	Not available.
<b>Viscosity (cPs)</b>	Not available.
<b>Solubility(ies)</b>	Soluble in water.
<b>Partition coefficient n-octanol/water (log value)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Density and/or relative density</b>	Not available.
<b>Relative vapour density</b>	Not available.
<b>Particle characteristics</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>	Heat, flames and sparks.
<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 hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity value

<b>Components</b>	<b>Species</b>	<b>Test results</b>
<b>Ethanol (CAS 64-17-5)</b>		
<b>Acute</b>		
Inhalation (LC50)	Rat	124.7 mg/l – vapor 4 h

Oral (LD50)	Rat	10,470 mg/kg
<b>Propylene glycol (CAS 57-55-6)</b>		
Dermal (LD50)	Rabbit	20.800 mg/kg
Oral (LD50)	Rat (male and female)	20.000 mg/kg
<b>Glycerol (56-81-5)</b>		
Dermal (LD50)	Rabbit	> 10.000 mg/kg
Oral (LD50)	Rat (male and female)	27.200 mg/kg
<b>FD&amp;C Green 3 (2353-45-9)</b>		
Oral (LD50)	Rat (male and female)	> 2000 mg/kg
<b>Skin corrosion/irritation</b>	Not available.	
<b>Serious eye damage/eye irritation</b>	Not available.	
<b>Respiratory or skin sensitisation</b>	Not available.	
<b>Germ cell mutagenicity</b>	Not available.	
<b>Carcinogenicity</b>	Not available.	
<b>Reproductive toxicity</b>	Not available.	
<b>STOT-single exposure;</b>	Not available.	
<b>STOT-repeated exposure;</b>	Not available.	
<b>Aspiration hazard</b>	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
<b>Ethanol (CAS 64-17-5)</b>			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	7.7 - 11.2 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	> 100 mg/l, 96 hours
<b>Propylene glycol (CAS 57-55-6)</b>			
Fish	NOEC	Pimephales promelas (fathead minnow)	52.930 mg/l - 96 h
Daphnia and other aquatic invertebrates	EC50 NOEC	Daphnia (water flea)	> 10.000 mg/l - 48 h 13.020 mg/l - 48 h
<b>Glycerol (56-81-5)</b>			
Fish	LC50	Oncorhynchus mykiss (rainbow trout)	54.000 mg/l - 96 h

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Fish	LC50	-	12400000 mg/kg- 96 h
Daphnia and other aquatic invertebrates	EC50	Daphnia (water flea)	366000 mg/l- 48 h
<b>12.2 Persistence and degradability</b>	Data are not available.		
<b>12.3 Bioaccumulative potential</b>	Does not significantly accumulate in organisms.		
<b>12.4 Mobility in soil</b>	Data are not available.		
<b>12.5 Results of PBT and vPvB assessment</b>	According to the results of its assessment, this substance is not a PBT or a vPvB		
<b>12.6 Endocrine disrupting properties</b>	Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0,1\%$ .		
<b>12.7 Other adverse effects</b>	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: UN1210      AND: UN1210      IMDG: UN1210      IATA: UN1210

### 14.2 UN proper shipping name

ADR/RID: Printing Ink      AND: Printing Ink      IMDG: Printing Ink      IATA: Printing Ink

### 14.3 Transport hazard class(es)

ADR/RID: Class 3      AND: Class 3      IMDG: Class 3      IATA: Class 3

### 14.4 Packing group

ADR/RID: III      AND: III      IMDG: III      IATA: III

### 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

**Issue date** 05-April-2022

Product name: Smart-Jet® 80320  
Version: 1.2

**Revision date**

28-June-2024

**Version #**

1.2

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