

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

Product name	<b>Smart-Jet® 82706</b>
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
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**1.3. Details of the supplier of the safety data sheet**

Company identification	<b>MSSC, LLC.</b> 926 McDonough Lake Road, Collinsville, IL 62234, USA Tel: 618-343-1006 Website: <a href="http://www.msscllc.com">www.msscllc.com</a>
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**1.4. Emergency telephone number**

Phone number:	618-343-1006
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**Section 2: Hazard(s) identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008 [CLP]:**

Physical hazards	Flammable liquids. Category 2, H225
Health hazards	Acute toxicity, Oral (Category 4), H302 Acute toxicity, Inhalation (Category 4), H332 Acute toxicity, Dermal (Category 4), H312 Specific target organ toxicity - single exposure (Category 1), H370 Eye irritation (Category 2), H319 May damage the unborn child (Category 1B), H360D

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

Pictograms

**GHS02****GHS08****GHS07**

Signal word

Danger

Hazard statements

H225- Highly flammable liquid and vapor.  
H302 + H312 + H332- Harmful if swallowed, in contact with skin or if inhaled.  
H319- Causes serious eye irritation  
H370- Causes damage to organs.  
H360D-May damage the unborn child.

Precautionary statements

Prevention

P203- Obtain, read and follow all safety instructions before use.  
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.  
 P243 - Take precautionary measures against static discharge.  
 P260 - Do not breathe dust/fume/gas/mist/vapours/spray.  
 P264 - Wash thoroughly after handling.  
 P270 - Do not eat, drink or smoke when using this product.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response

P301+P317: IF ON SKIN: Get medical help.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor.  
 P308+P313: IF exposed or concerned: Get medical advice/attention.  
 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.

 **WARNING** This product can expose you to chemicals including methanol, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**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
Ethanol	64-17-5	>75	200-578-6 603-002-00-5	Flam. Liq. 2, H225 Eye Irrit. 2, H319  Flam. Liq. 2: H225 Acute Tox.(O) 3: H301 Acute Tox.(D) 3: H311
Methanol	67-56-1	<10	200-659-6 603-001-00-X	Acute Tox.(I) 3: H331 STOT (SE) 1: H370 Concentration limits: STOT SE 1; H370: C ≥ 10 % STOT SE 2; H371: 3 % ≤ C < 10 %
Acetone	67-64-1	<5	200-662-2 606-001-00-8	Flam. Liq. 1: H224 Eye Irrit. 2: H319 STOT SE 3: H336
Solvent black dye	Proprietary	<10	NA	Repr. 1B (unborn child): H360D

**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

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 (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

Special protective equipment and precautions for firefighters Firefighters should wear full protective clothing including self-contained breathing apparatus. Avoid run off into storm sewers and ditches which lead to waterways.

Fire-fighting equipment/instructions Move containers from fire area if you can do it without risk.

### Section 6: Accidental release measures

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

**6.1.1. For non-emergency personnel** Keep unprotected people away, allow only well-trained experts wearing suitable protective clothing to abide in the field of accident.

**6.1.2. For emergency responders** Use personal protective clothing. Keep away sources of ignition.

#### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

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

Take up liquid spill into absorbent material, e.g.: sand/earth. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

#### 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**

Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists of this product.  
Use with adequate ventilation.  
Wear personal protective equipment.

**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.

**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
EU	Methanol	67-56-1		IOELV	200	260			2006/15/EC
IE	Methanol	67-56-1		OELV	200	260			S.I. No. 619 of 2001
EU	Acetone	67-64-1			500	1210			2000/39/EC
	Ethanol	64-17-5	Data are not available						

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

- human health values

	End point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Methanol	DNEL	260mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects
	DNEL	40mg/kg	human, dermal	worker (industry)	acute- systemic effects
	DNEL	260mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute- systemic effects
	DNEL	260mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
	DNEL	40mg/kg	human, dermal	worker (industry)	chronic- systemic effects
	DNEL	260mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
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
Acetone	DNEL	2.400 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute- systemic effects
	DNEL	1 210 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
	DNEL	186 mg/kg	human, dermal	worker (industry)	chronic - systemic effects

- environmental values

	End point	Threshold level	Environmental compartment
Methanol	PNEC	20,8 mg/l	freshwater
	PNEC	2,08 mg/	marine water
	PNEC	100 mg/l	sewage treatment plant (STP)
	PNEC	77 mg/kg	freshwater sediment
	PNEC	7,7 mg/kg	marine sediment
	PNEC	100 mg/kg	soil
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
	PNEC	4.59 mg/kg	soil
Acetone	PNEC	10.6 mg/L	freshwater
	PNEC	1.06 mg/L	marine water
	PNEC	100 mg/L	sewage treatment plant (STP)
	PNEC	30.4 mg/kg	freshwater sediment
	PNEC	29.5 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 protection

### Hand protection



Wear appropriate chemical resistant gloves.

### Other

Wear appropriate chemical resistant clothing.

### 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>	Black
<b>Odor</b>	Characteristic
<b>Melting point/freezing point;</b>	Not available.
<b>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>	10°C (closed-cup)
<b>Decomposition temperature</b>	Not available.

<b>pH</b>	Not available.
<b>Viscosity (cPs)</b>	Not available.
<b>Solubility(ies)</b>	Soluble in ethanol.
<b>Partition coefficient: n-octanol/water</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Density</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

Components	Species	Test results
<b>Ethanol (CAS 64-17-5)</b>		
<b>Acute</b>		
Inhalation (LC50)	Mouse Rat	39 mg/l, 4 Hours 20000 mg/l, 10 Hours
Oral (LD50)	Dog Guinea pig Mouse Rat	5.5 g/kg 5.6 g/kg Mouse 3450 mg/kg Rat 7060 mg/kg 6.2 g/kg
<b>Methanol (CAS 67-56-1)</b>		
<b>Acute</b>		
Inhalation (LC50)	Rat	128.2mg/l, 4 Hours 87.6mg/l, 6 Hours
Oral (LD50, LDLO)	Rat Human	1.187 - 2.769 mg/kg 143mg/kg
Dermal (LD50)	Rabbit	17.100 mg/kg
<b>Acetone (CAS 67-64-1)</b>		
<b>Acute</b>		
Inhalation (LC50)	Rat	50.100 mg/m <sup>3</sup>
Oral (LD50)	Rat	5.800 mg/kg
Dermal (LD50)	Guinea pig	7.426 mg/kg
Skin corrosion/irritation	Not available.	
Serious eye damage/eye irritation	Causes serious eye damage	

Respiratory or skin sensitization	Not available.
Germ cell mutagenicity	Not available.
Reproductive toxicity	May damage the unborn child
Carcinogenicity	Not available.
Specific target organ toxicity - single exposure	Causes damage to organs.
Specific target organ toxicity - 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

##### Ethanol (CAS 64-17-5)

##### Aquatic

Components		Species	Test Results
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	7.7 - 11.2 mg/l, 48 hours
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> )	> 100 mg/l, 96 hours

##### Methanol (CAS 67-56-1)

Fish	LC50 NOEC	<i>Lepomis macrochirus</i> (Bluegill) <i>Oryzias latipes</i>	15.400,0 mg/l - 96 h 7.900 mg/l - 200 h
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	0.000,00 mg/l - 48 h

##### Acetone (CAS 67-64-1)

Fish	LC50	<i>Oncorhynchus mykiss</i> (rainbow trout)	5.540 mg/l - 96 h
Daphnia and other aquatic invertebrates	LC50	<i>Daphnia magna</i> (Water flea)	8,800 mg/l - 48 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 Endocrine disrupting properties** Not available.

**12.7 Other adverse effects** Not available.

## Section 13. Disposal considerations

### 13.1 Waste treatment methods

This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains.

Contaminated packaging

Not available.

**13.2 Relevant provisions relating to waste**

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

**13.3 Remarks**

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

**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 Packaging group**

ADR/RID: II

AND: II

IMDG: II

IATA: II

**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**

4-September-2015

**Revision date**

17-April-2023

**Version #**

5.2

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