

## 1 - Identification

<b>Product identifier</b>	<b>Smart-Jet® 80435</b>
<b>Other means of identification</b>	Orange ink
<b>Synonym(s)</b>	Not available
<b>Recommended use</b>	Inkjet Printing
<b>Recommended restrictions</b>	None Known.
<b>Issue date</b>	12-July-2016
<b>Company identification</b>	<b>MSSC, LLC.</b> 926 McDonough Lake Road, Collinsville, IL 62234, USA Tel: 618-343-1006 Website: www.msscllc.com

## 2 - Hazard(s) identification

**Physical hazards** Flammable liquids. Category 2

**Health hazards** Serious eye damage (Category 2A), H319  
Skin corrosion/irritation (Category 3), H316  
Sensitization, Skin(Category 1), H317

**Label elements**



**Signal word** Danger

**Hazard statement** H225- Highly flammable liquid and vapor.  
H319-Causes serious eye irritation.  
H316-Causes mild skin irritation.

**Precautionary statement**

**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.  
 P243 - Take precautionary measures against static discharge.  
 P260 - Do not breathe dust/fume/gas/mist/vapours/spray.  
 P264 - Wash thoroughly after handling.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.

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.

<b>Response</b>	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. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
<b>Storage</b>	P403 + P235 - Store in a well-ventilated place. Keep cool.
<b>Disposal</b>	P501- Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Environmental hazards</b>	Not available

### 3 - Composition/information on ingredients

Mixtures	CAS Number	%
Ethanol	64-17-5	>82
1-methoxy-2-propanol	107-98-2	≤5
Diacetone Alcohol	123-42-2	≤3
Acetone	67-64-1	≤4
Orange dye mixture	Proprietary	≤6

### 4. First-aid measures

<b>Inhalation</b>	Move person to fresh air immediately. If symptoms persist, get immediate medical attention.
<b>Skin contact</b>	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.
<b>Eye contact</b>	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.
<b>Ingestion</b>	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.
<b>Most important symptoms/ effects, acute and delayed</b>	See section 8.

### 5. Fire-fighting measures

<b>FLASH POINT:</b>	14°C (closed-cup).
<b>Suitable extinguishing media</b>	Suitable extinguishing media: sand, carbon dioxide (CO <sub>2</sub> ) or dry chemical.
<b>Unsuitable extinguishing media</b>	Not available.
<b>Specific hazards arising from the chemical</b>	Not applicable.
<b>Special protective equipment and precautions for firefighters</b>	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.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures** Avoid contact with skin. Avoid inhalation of vapors or mists. Do not touch or walk through spilled material. Ensure adequate ventilation.

Remove all sources of ignition.

Use personal protective equipment to minimize exposure to skin and eye. In the case of vapor formation use a respirator with an approved filter.

**Environmental precautions** Do not flush into surface water or sanitary sewer system.

**Methods and materials for containment and cleaning up** Not available.

## 7. Handling and storage

**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.

**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.

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR1910.1000)

Components	Type	Value
Ethanol (CAS 64-17-5)	PEL	1900 mg/m <sup>3</sup> 1000 ppm
Diacetone alcohol (CAS 123-42-2)	PEL	240mg/m <sup>3</sup> 50ppm
Acetone (CAS 67-64-1)	PEL	2400mg/m <sup>3</sup> 1000ppm

#### US. ACGIH Threshold Limit Values

Components	Type	Value
Ethanol (CAS 64-17-5)	STEL	1000 ppm
1-methoxy-2-propanol (CAS 107-98-2)	STEL	150ppm
Acetone (CAS 67-64-1)	STEL	750ppm

#### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Ethanol (CAS 64-17-5)	TWA	1900 mg/m <sup>3</sup> 1000 ppm
Diacetone alcohol (CAS 123-42-2)	TWA	240mg/m <sup>3</sup> 50ppm
1-methoxy-2-propanol (CAS 107-98-2)	TWA	360mg/m <sup>3</sup> 150ppm
Acetone (CAS 67-64-1)	TWA	590mg/m <sup>3</sup> 250ppm

<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Appropriate engineering Controls</b>	Not available.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Wear safety glasses; chemical goggles (if splashing is possible). Eye wash fountain and emergency showers are recommended.
<b>Skin protection</b>	
<b>Hand protection</b>	Not available.
<b>Other</b>	Wear appropriate chemical resistant clothing. Wear appropriate chemical resistant gloves.
<b>Respiratory protection</b>	Provide adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment.
<b>Thermal hazards</b>	Not available.
<b>General hygiene considerations</b>	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.

## 9. Physical and chemical properties

<b>Appearance</b>	Orange liquid
<b>Odor</b>	Vinous odor
<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>	>70°C
<b>Flash point</b>	14°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>	Soluble in ethanol
<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

## 10. Stability and reactivity

<b>Reactivity</b>	Not available.
<b>Chemical stability</b>	Stable at normal conditions.
<b>Possibility of hazardous reactions</b>	None known.
<b>Conditions to avoid</b>	Heat, flames and sparks.
<b>Incompatible materials</b>	Not available.
<b>Hazardous decomposition products</b>	Not available.

## 11. Toxicological information

**Symptoms related to the physical, chemical and toxicological characteristics** Not available.

### Information on toxicological effects

#### 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>Diacetone alcohol (CAS 123-42-2)</b>		
<b>Acute</b>		
Inhalation		
LC50	Rat	> 10 mg/l, 4 Hours
Dermal		
LD50	rabbit	13.500 mg/kg

Oral			
LD50	Rat		2.520 mg/kg
<b>1-methoxy-2-propanol (CAS 107-98-2)</b>			
<b>Acute</b>			
Inhalation			
LC50	Rat		10,000 mg/l, 5 Hour
Oral			
LD50	Mouse		11,700mg/kg
Dermal			
LC50	Rabbit		13,000mg/kg
<b>Acetone (CAS 67-64-1)</b>			
<b>Acute</b>			
Inhalation			
LC50	Rat		50.100 mg/m3
Oral			
LD50	Rat		5.800 mg/kg
Dermal			
LD50	Guinea pig		7.426 mg/kg
<b>Skin corrosion/irritation</b>	Skin Contact: May cause skin irritation. Skin Absorption: May be harmful if absorbed through the skin.		
<b>Serious eye damage/eye irritation</b>	Eye Contact: May cause eye irritation. Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract. Ingestion: Harmful if swallowed.		
<b>Respiratory sensitization</b>	Based on available data, the classification criteria are not met.		
<b>Skin sensitization</b>	Based on available data, the classification criteria are not met.		
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.		
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.		
<b>Specific target organ toxicity - single exposure</b>	Based on available data, the classification criteria are not met.		
<b>Specific target organ toxicity - repeated exposure</b>	Based on available data, the classification criteria are not met.		
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.		

## 12. Ecological information

### Aquatic toxicity

### Eco toxicity

Components	Species	Test Results
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### Ethanol (CAS 64-17-5)

### Aquatic

Crustacea	EC50 Water flea (Daphnia magna)	7.7 - 11.2 mg/l, 48 hours
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Fish	LC50	Fathead minnow (Pimephales promelas)	> 100 mg/l, 96 hours
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**1-methoxy-2-propanol (CAS 107-98-2)**

Fish	LC50	Oncorhynchus mykiss (rainbow trout)	>1000 mg/l - 96 h
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**Diacetone alcohol (CAS 123-42-2)**

Fish	LC50	Lepomis macrochirus (Bluegill)	420 mg/l - 96 h
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Daphnia and other aquatic invertebrates	EC50	Daphnia magna (Water flea)	9.000 mg/l - 24 h
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**Acetone (CAS 67-64-1)**

Fish	LC50	Oncorhynchus mykiss (rainbow trout)	5.540 mg/l - 96 h
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Daphnia and other aquatic invertebrates	LC50	Daphnia magna (Water flea)	8.800 mg/l - 48 h
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**Persistence and degradability** Not available.

**Bioaccumulative potential** Not available.

**Partition coefficient n-octanol / water (log Kow)**

Ethanol (CAS 64-17-5)	-0.31
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Diacetone alcohol (CAS 123-42-2)	-0.098
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1-methoxy-2-propanol (CAS 107-98-2)	-0.49
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Acetone (CAS 67-64-1)	-0.24
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**Mobility in soil** Not available.

**Other adverse effects** Not available.

**13. Disposal considerations**

**Disposal instructions** Do not dispose of together with general office waste. Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Ensure collection and disposal with an appropriately licensed waste contractor.

**Local disposal regulations** Not available.

**Hazardous waste code** Not available.

**Waste from residues / unused products** Not available.

**Contaminated packaging** Not available

## 14. Transport information

### DOT

<b>UN number</b>	UN1210
<b>UN proper shipping name</b>	Printing ink, flammable
<b>Transport hazard class(es)</b>	3
<b>Subsidiary class(es)</b>	Not available.
<b>Packing group</b>	II
<b>Special precautions for user</b>	Not available.
<b>Labels required</b>	Not available.

### IATA

<b>UN number</b>	UN1210
<b>UN proper shipping name</b>	Printing ink, flammable
<b>Transport hazard class(es)</b>	3
<b>Subsidiary class(es)</b>	-
<b>Packaging group</b>	II
<b>Environmental hazards</b>	No
<b>Labels required</b>	Not available.
<b>ERG Code</b>	Not available.
<b>Special precautions for user</b>	Not available.

### IMDG

<b>UN number</b>	UN1210
<b>UN proper shipping name</b>	Printing ink, flammable
<b>Transport hazard class(es)</b>	3
<b>Subsidiary class(es)</b>	-
<b>Packaging group</b>	II
<b>Environmental hazards</b>	No
<b>Marine pollutant</b>	No
<b>Labels required</b>	Not available.
<b>Ems</b>	Not available.

**Special precautions for user** Not available.

## Section 15 - Regulatory Information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### **Chemical safety assessment**

No chemical safety assessment has been carried out.

## Section 16 - Other Information

**Issue date** 12-July-2016

**Revision date** 9-February-2021

**Version #** 04

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