


## 1 - Identification

<b>Product identifier</b>	<b>SoluJET®2720R</b>
<b>Other means of identification</b>	Not available
<b>Synonym(s)</b>	Not available
<b>Recommended use</b>	Inkjet Printing
<b>Recommended restrictions</b>	None Known
<b>Issue date</b>	02-December-2016
<b>Company identification</b>	<b>MYLAN GROUP</b> Long Duc Industrial Park Tra Vinh City, Tra Vinh Province, Vietnam Tel. 84-74-3846-997 Fax 84-74-3846-998

## 2 - Hazard(s) identification

<b>Physical hazards</b>	Flammable liquids.	Category 2
<b>Health hazards</b>	Not classified.	
<b>OSHA hazard(s)</b>	Not classified.	
<b>Label elements</b>		
<b>Signal word</b>	Danger	
<b>Hazard statement</b>	H225- Highly flammable liquid and vapor. H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled. H370-H336 Causes damage to the central nervous system and optic nerve. May cause drowsiness or dizziness. H316- Causes mild skin irritation. H320- Causes eye irritation	
<b>Precautionary statement</b>		
<b>Prevention</b>	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. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P273 - Avoid release to the environment. 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>	P302+P305+ P337+P352 : If on Skin/in eyes: Wash with plenty of water	
<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>Hazard(s) not otherwise classified (HNOC)</b>	Not classified.	
<b>Environmental hazards</b>	Hazardous to the aquatic environment, long-term hazard	Category 3
<b>3 - Composition/information on ingredients</b>		
<b>Mixtures</b>	<b>CAS Number</b>	<b>%</b>
Ethanol	64-17-5	>30
Methanol	67-56-1	>20
Cyclohexanone	108-94-1	<20
Red solvent dye	Proprietary	<8
<b>4. First-aid measures</b>		
<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.	
<b>5. Fire-fighting measures</b>		
<b>FLASH POINT:</b>	12°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.	
<b>Fire-fighting equipment/instructions</b>	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
Methanol (CÁS 67-56-1)	PEL	260mg/m <sup>3</sup> 200ppm
Cyclohexanone (CAS 108-94-1)	PEL	200mg/m <sup>3</sup> 50ppm

#### US. ACGIH Threshold Limit Values

Components	Type	Value
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Methanol (CÁS 67-56-1)	STEL	250ppm
Cyclohexanone (CAS 108-94-1)	STEL	50ppm

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

Components	Type	Value
Ethanol (CAS 64-17-5)	TWA	1900 mg/m <sup>3</sup> 1000 ppm
Methanol (CÁS 67-56-1)	TWA	260mg/m <sup>3</sup> 200ppm
Cyclohexanone (CAS 108-94-1)	TWA	100mg/m <sup>3</sup> 25ppm

**Biological limit values** 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.
<b>9. Physical and chemical properties</b>	
<b>Appearance</b>	Red 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>	12°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</b>	Not available.	
<b>10. Stability and reactivity</b>		
<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.	
<b>11. Toxicological information</b>		
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Not available.	
<b>Information on toxicological effects</b>		
<b>Acute toxicity value</b>		
<b>Components</b>	<b>Species</b>	<b>Test results</b>
Ethanol (CAS 64-17-5)		
<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
Other		
LD50	Mouse Rat	933 mg/kg 1440 mg/kg
Methanol (CÁS 67-56-1)		

<b>Acute</b>			
Inhalation			
LC50	Rat		128.2mg/l, 4 Hours 87.6mg/l, 6 Hours
Oral			
LD50	Rat		1.187 - 2.769 mg/kg
LDLO	Human		143mg/kg
Dermal			
LD50	Rabbit		17.100 mg/kg
<b>Cyclohexanone (CAS 108-94-1)</b>			
<b>Acute</b>			
Inhalation			
LC50	Rat		> 6.2 mg/l, 4 Hours
Dermal			
LD50	rabbit		3,160 mg/kg
Oral			
LD50	Rat		1,534 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.		
<b>12. Ecological information</b>			
<b>Aquatic toxicity</b>			
<b>Ecotoxicity</b>			
<b>Components</b>	<b>Species</b>		<b>Test Results</b>
Ethanol (CAS 64-17-5)			
<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
Methanol (CÁS 67-56-1)			
Fish	LC50 NOEC	Lepomis macrochirus (Bluegill) Oryzias latipes	15.400,0 mg/l - 96 h 7.900 mg/l - 200 h
Crustacea	EC50	Water flea (Daphnia magna)	10.000,00 mg/l - 48 h
Cyclohexanone (CAS 108-94-1)			
Daphnia and other aquatic invertebrates	LC50	Daphnia magna (Water flea)	820 mg/l - 24 h
<b>Persistence and degradability</b>		Not available.	
<b>Bioaccumulative potential</b>		Not available.	
<b>Partition coefficient n-octanol / water (log Kow)</b>			
Ethanol (CAS 64-17-5)		-0.31	
Methanol (CÁS 67-56-1)		-0.77	
Cyclohexanone (CAS 108-94-1)		0.81	
<b>Mobility in soil</b>		Not available.	
<b>Other adverse effects</b>		Not available.	
<b>13. Disposal considerations</b>			
<b>Disposal instructions</b>		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.	
<b>Local disposal regulations</b>		Not available.	
<b>Hazardous waste code</b>		Not regulated.	
<b>Waste from residues / unused products</b>		Not available.	
<b>Contaminated packaging</b>		Not available.	
<b>14. Transport information</b>			
<b>DOT</b>			
<b>UN number</b>		UN1210	
<b>UN proper shipping name</b>		Printing ink, flammable (Ethanol, Methanol, Cyclohexanone)	
<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>	<b>Passenger aircraft</b> Quantity limitation: 5 L <b>Cargo aircraft</b> Quantity limitation: 60 L <b>Special provisions</b> 24, IB2, T4, TP1.
<b>Labels required</b>	Not available.
<b>IATA</b>	
<b>UN number</b>	UN1210
<b>UN proper shipping name</b>	Printing ink, flammable (Ethanol, Methanol, Cyclohexanone)
<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>	<b>Passenger and Cargo Aircraft</b> Quantity limitation: 5 L <b>Cargo Aircraft Only</b> Quantity limitation: 60 L <b>Limited Quantities - Passenger Aircraft</b> Quantity limitation: 1 L
<b>IMDG</b>	
<b>UN number</b>	UN1210
<b>UN proper shipping name</b>	Printing ink, flammable (Ethanol, Methanol, Cyclohexanone)
<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.
<b>Special precautions for user</b>	Not available.



## Section 15 - Regulatory Information

**US federal regulations** US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders under TSCA.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)** Not regulated.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)** Not on regulatory list.

### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Methanol (CÁS 67-56-1) Reportable quantity: 5000 lbs.

Cyclohexanone (CÁS 108-94-1) Reportable quantity: 5000 lbs.

### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories** Immediate Hazard - No  
Delayed Hazard - Yes  
Fire Hazard - Yes  
Pressure Hazard - No  
Reactivity Hazard – No

**SARA 302 Extremely hazardous substance** No

**SARA 311/312 Hazardous chemical** No

### **US state regulations**

**US. Massachusetts RTK - Substance List** Ethanol (CAS 64-17-5)  
Methanol (CAS 67-56-1)  
Cyclohexanone (CAS 108-94-1)

**US. New Jersey Worker and Community Right-to-Know Act** Methanol (CÁS 67-56-1)  
Cyclohexanone (CAS 108-94-1)

**US. Pennsylvania RTK - Hazardous Substances** Ethanol (CAS 64-17-5)  
Methanol (CAS 67-56-1)  
Cyclohexanone (CAS 108-94-1)

**US. Rhode Island RTK** Ethanol (CAS 64-17-5)  
Methanol (CAS 67-56-1)  
Cyclohexanone (CÁS 108-94-1)

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance** Methanol (CÁS 67-56-1)

## Section 16 - Other Information

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