

## Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product name **SoluJET® 2707K**

Synonym(s) Black ink

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 **MYLAN GROUP**  
Long Duc Industrial Park  
Tra Vinh City, Tra Vinh Province, Vietnam  
Tel. +84-294-3846-997  
Fax +84-294-3846-998

### 1.4. Emergency telephone number

Phone number: +84-294-3846-997

## 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 Eye irritation (Category 2), H319  
Reproductive toxicity (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.  
H319- Causes serious eye damage.  
H360D-May damage the unborn child

Precautionary statements

Prevention P203- Obtain, read and follow all safety instructions before use.

Response	<p>P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking.</p> <p>P233 - Keep container tightly closed.</p> <p>P240 - Ground/Bond container and receiving equipment.</p> <p>P241 - Use explosion-proof electrical/ventilating/lighting/equipment.</p> <p>P242 - Use only non-sparking tools.</p> <p>P243 - Take precautionary measures against static discharge.</p> <p>P260 - Do not breathe dust/fume/gas/mist/vapours/spray.</p> <p>P264 - Wash thoroughly after handling.</p> <p>P270 - Do not eat, drink or smoke when using this product.</p> <p>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</p>
Storage	<p>P301+P317: IF ON SKIN: Get medical help.</p> <p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor.</p> <p>P308+P313: IF exposed or concerned: Get medical advice/attention.</p> <p>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</p>
Disposal	<p>P403 + P235 - Store in a well-ventilated place. Keep cool.</p> <p>P405 - Store locked up.</p> <p>P501- Dispose of contents/container in accordance with local/regional/national/ international regulations.</p>
<b>2.3. Other hazards</b>	
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	Concentration (%)	EC No./ EC index No	Classification
Ethanol	64-17-5	>72	200-578-6 603-002-00-5	Flam. Liq. 2, H225 Eye Irrit. 2, H319
1-methoxy-2-propanol	107-98-2	<10	203-539-1 603-064-00-3	Flam. Liq. 3:H226 STOT SE 3: H336
Cyclohexanone	108-94-1	<5	20203-631-1 606-010-00-7	Flam. Liq. 3: H226 Acute Tox. 4: H332

Acetone	67-64-1	<5	200-662-2 606-001-00-8	Flam. Liq. 1: H225 Eye Irrit. 2: H319 STOT SE 3: H336
Black dye	Proprietary	<8	NA	Repr. 1B (unborn child): H360D
<b>Section 4: First-aid measures</b>				
<b>4.1. Description of first aid measures</b>				
<b>In case of:</b>				
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.			
<b>4.2. Most important symptoms/ effects, acute and delayed</b>				
See section 11				
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>				
No special treatment needed, treat symptomatically.				
<b>Section 5. Fire-fighting measures</b>				
<b>5.1. Extinguishing media</b>				
<b>Suitable extinguishing media</b>	sand, carbon dioxide (CO <sub>2</sub> ) or dry chemical.			
<b>Unsuitable extinguishing media</b>	Not available.			
<b>5.2. Special hazards arising from the substance or mixture</b>				
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.				
<b>5.3. Advice for firefighters</b>				
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.			
<b>Section 6: Accidental release measures</b>				
<b>6.1. Personal precautions, protective equipment and emergency procedures</b>				
<b>6.1.1. For non-emergency personnel</b>	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	Cyclohexanone	108-94-1		IOELV	10	40.8	20	81.6	2000/39/EC
MT	Cyclohexanone	108-94-1		OELV	10	40.8	20	81.6	L.N. 227
EU	Acetone	67-64-1			500	1210			2000/39/EC
EU	1-methoxy-2-propanol	107-98-2		IOELV	100	375	150	568	2000/39/EC
MT	1-methoxy-2-propanol	107-98-2		OELV	100	375	150	568	CAP. 424
	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
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
Cyclohexanone	DNEL	20 mg/kg	human, dermal	worker (industry)	chronic - systemic effects

	DNEL	20 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic – local effects
	DNEL	20 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
1-methoxy-2-propanol	DNEL	553.5 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute- systemic effects
	DNEL	369 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
	DNEL	183 mg/kg	human, dermal	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
Cyclohexanone	PNEC	0,0329 mg/cm <sup>3</sup>	marine water
	PNEC	0,0951 mg/cm <sup>3</sup>	freshwater sediment
	PNEC	0,0329 mg/cm <sup>3</sup>	freshwater
	PNEC	0,0143 mg/cm <sup>3</sup>	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
1-methoxy-2-propanol	PNEC	10 mg/L	freshwater
	PNEC	1 mg/L	marine water
	PNEC	100 mg/L	sewage treatment plant (STP)
	PNEC	5.2 mg/kg	freshwater sediment
	PNEC	4.59 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.



<b>Other</b>	Wear appropriate chemical resistant clothing.
<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.

## 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>	16°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)	Rat	20000 mg/l, 10 Hours
Oral (LD50)	Rat	7060 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>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
<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 (LD50)	Rabbit	13,000mg/kg
<b>Skin corrosion/irritation</b>	Not available.	
<b>Serious eye damage/eye irritation</b>	Causes serious eye damage	
<b>Respiratory or skin sensitization</b>	Not available.	
<b>Germ cell mutagenicity</b>	Not available.	
<b>Reproductive toxicity</b>	May damage the unborn child	
<b>Carcinogenicity</b>	Not available.	

**Specific target organ toxicity - single exposure** Not available.

**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		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>Cyclohexanone (CAS 108-94-1)</b>			
Daphnia and other aquatic invertebrates	LC50	Daphnia magna (Water flea)	820 mg/l - 24 h
<b>Acetone (CAS 67-64-1)</b>			
Fish	LC50	Oncorhynchus mykiss (rainbow trout)	5.540 mg/l - 96 h
Daphnia and other aquatic invertebrates	LC50	Daphnia magna (Water flea)	8,800 mg/l - 48 h
<b>1-methoxy-2-propanol (CAS 107-98-2)</b>			
Fish	LC50	Oncorhynchus mykiss (rainbow trout)	>1000 mg/l - 96 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.



<b>12.6 Endocrine disrupting properties</b>	Not available.		
<b>12.7 Other adverse effects</b>	Not available.		
<b>Section 13. Disposal considerations</b>			
<b>13.1 Waste treatment methods</b>	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.		
<b>13.2 Relevant provisions relating to waste</b>	The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.		
<b>13.3 Remarks</b>	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.		
<b>Section 14. Transport information</b>			
<b>14.1 UN number</b>			
ADR/RID: UN1210	AND: UN1210	IMDG: UN1210	IATA: UN1210
<b>14.2 UN proper shipping name</b>			
ADR/RID: Printing Ink	AND: Printing Ink	IMDG: Printing Ink	IATA: Printing Ink
<b>14.3 Transport hazard class(es)</b>			
ADR/RID: Class 3	AND: Class 3	IMDG: Class 3	IATA: Class 3
<b>14.4 Packaging group</b>			
ADR/RID: II	AND: II	IMDG: II	IATA: II
<b>14.5 Environmental hazards</b>			
ADR/RID: None	AND: None	IMDG: None	IATA: None
<b>14.6 Special precautions for user</b>			
Not applicable			
<b>14.7 Maritime transport in bulk according to IMO instruments</b>			
Not applicable			
<b>Section 15 - Regulatory Information</b>			
<b>15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture</b>			
<b>EU legislation</b>	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** 16-October-2018

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**Version #** 3.3

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