

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

### 1.1. Product identifier

Product name **SoluJET® 2770K**  
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 **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 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  
Serious eye damage (Category 1), H318  
Skin corrosion/irritation(Category 2), H315  
May damage the unborn child (Category 1B), H360D

### 2.2. Label elements

#### Labeling according to Regulation (EC) No 1272/2008 (CLP):

Pictograms



GHS02

GHS08

GHS05

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. H318- Causes serious eye damage H315- Causes skin irritation H370- Causes damage to organs. H360D-May damage the unborn child.
Precautionary statements	
Prevention	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. 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	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	No other hazards

## 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
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Ethanol	64-17-5	>50	200-578-6 603-002-00-5	Flam. Liq. 2, H225 Eye Irrit. 2, H319
Methanol	67-56-1	≤20	200-659-6 603-001-00-X	Flam. Liq. 2: H225 Acute Tox.(O) 3: H301 Acute Tox.(D) 3: H311 Acute Tox.(I) 3: H331 STOT (SE) 1: H370
n-butanol	71-36-3	≤5	200-751-6 603-004-00-6	Flam. Liq. 3: H226 Acute Tox. 4: H302 STOT SE 3: H335 STOT SE 3: H336 Skin Irrit. 2: H315 Eye Dam. 1: H318
1-methoxy-2-propanol	107-98-2	<5	203-539-1 603-064-00-3	Flam. Liq. 3: H226 STOT SE 3: H336
Cyclohexanone	108-94-1	≤5	203-631-1 606-010-00-7	Flam. Liq. 3: H226 Acute Tox.(I) 4: H332 Acute Tox.(O) 4: H302 Acute Tox.(D) 4: H312 Acute Tox.(I) 4: H332 Skin Irrit. 2: H315 Eye Dam. 1: 318
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	<10	Proprietary	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

Wear suitable protective suit and self-contained breathing apparatus.

## Section 6: Accidental release measures

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

Wear appropriate personal protective equipment as specified in 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** 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
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
IE	N-Butanol	71-36-3		OELV	20				S.I. No. 619
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

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
	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
N-Butanol	DNEL	310 mg/kg	human, inhalatory	worker (industry)	chronic - local 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
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

- 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
N-Butanol	PNEC	0,0082 mg/l	marine water
	PNEC	0,178 mg/kg	freshwater sediment
	PNEC	2.476 mg/l	sewage treatment plant (STP)
	PNEC	0,015 mg/kg	soil
	PNEC	0,082 mg/l	freshwater
	PNEC	2,25 mg/l	Water
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
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

## 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.

<b>Skin and body protection</b>	Protective suit, Safety shoes.
<b>Hand protection</b>	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.

## Section 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Black liquid
<b>Odor</b>	Characteristic
<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>	13°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.
<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 toxicological effects

#### Acute toxicity value

Components	Species	Test results
<b>Ethanol (CAS 64-17-5)</b>		
<b>Acute</b>		
Inhalation (LC50)	Rat	124.7 mg/l , 4 Hours
Oral (LD50)	Rat	10,470 mg/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 100 mg/kg
Dermal (LD50)	Rabbit	17.100 mg/kg
<b>N-Butanol (71-36-3)</b>		
Oral (LD50)	Rat	790 mg/kg
Dermal (LD50)	Rabbit	3.430 mg/kg

**1-methoxy-2-propanol  
(CAS 107-98-2)**

**Acute**

Inhalation (LC50)	Rat	10,000 mg/l, 5 Hour
Oral (LD50)	Mouse	11,700mg/kg
Dermal (LD50)	Rabbit	13,000mg/kg

**Cyclohexanone (CAS 108-94-1)**

**Acute**

Inhalation (LC50)	Rat	> 6.2 mg/l, 4 Hours
Dermal (LD50)	rabbit	3,160 mg/kg
Oral (LD50)	Rat	1,534 mg/kg

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

**Acute**

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**

Causes skin irritation

**Serious eye damage/eye irritation**

Causes serious eye damage

**Respiratory sensitization**

Not available.

**Skin sensitization**

Not available.

**Germ cell mutagenicity**

Not available.

**Carcinogenicity**

Not available.

**Reproductive toxicity**

May damage the unborn child

**Specific target organ toxicity - single exposure**

Causes damage to organs

**Specific target organ toxicity - repeated exposure**

Not available.

**Aspiration hazard**

Not available.

**Section 12. Ecological information**

**12.1 Toxicity**

**Aquatic toxicity**

**Components**

**Species**

**Test Results**

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

**Aquatic**

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>Methanol (CAS 67-56-1)</b>			
Fish	LC50	Lepomis macrochirus (Bluegill)	15.400,0 mg/l - 96 h
	NOEC	Oryzias latipes	7.900 mg/l - 200 h
Crustacea	EC50	Water flea (Daphnia magna)	0.000,00 mg/l - 48 h
<b>N-Butanol (CAS 71-36-3)</b>			
Fish	LC50	Pimephales promelas (fathead minnow)	1.376 mg/l; 96 h
Daphnia and other aquatic invertebrates	EC50 NOEC	Daphnia and other aquatic invertebrates	1.328 mg/l; 48 h 4.1 mg/l - 21d
<b>1-methoxy-2-propanol (CAS 107-98-2)</b>			
Fish	LC50	Oncorhynchus mykiss (rainbow trout)	>1000 mg/l - 96 h
<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>12.2 Persistence and degradability</b>	Not available.		
<b>12.3 Bioaccumulative potential</b>	Not available.		
<b>12.4 Mobility in soil</b>	Not available.		
<b>12.5 Results of PBT and vPvB assessment</b>	Not available.		
<b>12.6 Other adverse effects</b>	Not available.		
<b>Section 13. Disposal considerations</b>			
<b>13.1 Waste treatment methods</b>			
<b>Product</b>	Dispose of waste material in accordance with local, state and federal pollution regulations.		
<b>Contaminated packaging</b>	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

**IMDG:** UN1210

**ICAO-IATA/DGR:** UN1210

### 14.2 UN proper shipping name

**ADR/RID:** Printing Ink

**IMDG:** Printing Ink

**ICAO-IATA/DGR:** Printing Ink

### 14.3 Transport hazard class(es)

**ADR/RID:** Class 3

**IMDG:** Class 3

**ICAO-IATA/DGR:** Class 3

### 14.4 Packing group

**ADR/RID:** II

**IMDG:** II

**ICAO-IATA/DGR:** II

### 14.5 Environmental hazards

None

### 14.6 Special precautions for user

None

## 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

22-August-2018

### Revision date

15-September-2022

### Version #

4.2

### Disclaimer

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