

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

1.1. Product identifier

Product name **SoluJET® 2720K**

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
 E-mail address: info@mylangroup.com

1.4. Emergency telephone number

Name	Address	City	Telephone	Website
Poison Control Center	Bach Mai Hospital 78 Giai Phong Avenue Dong Da District	Ha Noi	+84 (0)243 869 3731	www.chongdoc.org.vn

Hours of operation: 8.00-17.00 Monday-Friday

Section 2: Hazard(s) identification

2.1. Classification of the substance or mixture

Product definition : Mixture


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

Physical hazards Flammable liquids. Category 2, H225

Health hazards
 Acute toxicity, Oral (Category 3), H301
 Acute toxicity, Inhalation (Category 3), H331
 Acute toxicity, Dermal (Category 3), H311
 Specific target organ toxicity - single exposure (Category 1), H370
 Specific target organ toxicity, single exposure; Narcotic effects (Category 3), H336
 Serious eye damage (Category 1), H318
 May damage the unborn child (Category 1B), H360D

2.2. Label elements

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

Pictograms	
	GHS02 GHS08 GHS06 GHS05 GHS07
Signal word	Danger
Hazard statements	<p>H225 - Highly flammable liquid and vapor H301 + H311 + H331- Toxic if swallowed, in contact with skin or if inhaled. H318- Causes serious eye damage H370- Causes damage to organs H336-May cause drowsiness or dizziness H360D-May damage the unborn child</p>
Precautionary statements	
Prevention	<p>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.</p>
Response	<p>P301+P317: IF SWALLOWED: Get medical help. P302+P352: IF ON SKIN: wash with plenty of water/... P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P316: Get emergency medical help immediately. 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>
Storage	<p>P403 + P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up.</p>
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 57(f) 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	EC Number	Concentration (%)	Classification
Ethanol	64-17-5	200-578-6	>34	Flam. Liq. 2, H225 Eye Irrit. 2, H319
Methanol	67-56-1	200-659-6	≤30	Flam. Liq. 2: H225 Acute Tox.(O) 3: H301 Acute Tox.(D) 3: H311 Acute Tox.(I) 3: H331 STOT (SE) 1: H370 Concentration limits: >= 10 %: STOT SE 1, H370; 3 - < 10 %: STOT SE 2, H371;
γ-Butyrolactone	96-48-0	202-509-5	≤25	Acute Tox. 4: H302 Eye Dam. 1: H318 STOT SE 3: H336
tert-alkyl(C12- C14)ammonium bis(1-((2- hydroxy-5-nitrophenyl)azo)- 2-naphthalenolato(2-))- chromate(1-)	117527-94-3	Proprietary	<6	Repr. 1B (unborn child): H360D
Cyclohexanone	108-94-1	203-631-1	≤5	Flam. Liq. 3: H226 Acute Tox.(I) 4: H332 Acute Tox.(O) 4: H302 Acute Tox.(D) 4: H312 Skin Irrit. 2: H315 Eye Dam. 1: H318

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in 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 (CO₂) 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

For non-emergency personnel

(a) the wearing of suitable protective equipment (including personal protective equipment referred to under section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing;

(b) removal of ignition sources, provision of sufficient ventilation, control of dust; and

(c) emergency procedures such as the need to evacuate the danger area or to consult an expert.

For personal protection see 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

Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Hygiene measures

Change contaminated clothing. Wash hands after working with substance. 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 ³)	STEL (ppm)	STEL (mg/m ³)	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	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

Notation

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

i Inhalable fraction

r Respirable fraction

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 ³	human, inhalatory	worker (industry)	acute- systemic effects
	DNEL	343 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
	DNEL	950 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Methanol	DNEL	260mg/m ³	human, inhalatory	worker (industry)	acute - local effects
	DNEL	40mg/kg	human, dermal	worker (industry)	acute- systemic effects
	DNEL	260mg/m ³	human, inhalatory	worker (industry)	acute- systemic effects
	DNEL	260mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
	DNEL	40mg/kg	human, dermal	worker (industry)	chronic- systemic effects
	DNEL	260mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
γ-Butyrolactone	DNEL	19mg/kg	human, dermal	worker (industry)	chronic- systemic effects
	DNEL	958mg/m ³	human, inhalatory	worker (industry)	acute- systemic effects
	DNEL	130mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Cyclohexanone	DNEL	20 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
	DNEL	20 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
	DNEL	20 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects

- environmental values

	End point	Threshold level	Environmental compartment
Ethanol	PNEC	0,79 mg/cm ³	marine water
	PNEC	2,75 mg/cm ³	air
	PNEC	3,6 mg/cm ³	freshwater sediment
	PNEC	580 mg/cm ³	sewage treatment plant (STP)
	PNEC	0,63 mg/cm ³	soil
	PNEC	0,96 mg/cm ³	freshwater
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
γ-Butyrolactone	PNEC	0.056mg/L	freshwater
	PNEC	0.0056mg/L	marine water
	PNEC	452mg/L	sewage treatment plant (STP)
	PNEC	0.24mg/kg	freshwater sediment
	PNEC	0.02mg/kg	marine sediment
	PNEC	0.014683mg/kg	soil
Cyclohexanone	PNEC	0,0329 mg/cm ³	marine water
	PNEC	0,0951 mg/cm ³	freshwater sediment
	PNEC	0,0329 mg/cm ³	freshwater
	PNEC	0,0143 mg/cm ³	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 and body protection

Protective suit, Safety shoes.

Hand protection



Wear appropriate chemical resistant gloves.

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

Physical state	Liquid
Color	Black
Odor	Characteristic

Melting point/freezing point;	Not available.	
Boiling point or initial boiling point and boiling range	>70°C at 1,013 hPa - lit.	
Flammability (solid, gas)	Not available.	
Lower and upper explosion limit	Not available.	
Flash point	18°C (closed-cup)	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
pH	Not available.	
Viscosity (cPs)	Not available.	
Solubility(ies)	Soluble in ethanol.	
Partition coefficient n-octanol/water (log value)	Not available.	
Vapor pressure	Not available.	
Density and/or relative density	Not available.	
Relative vapour density	Not available.	
Particle characteristics	Not available.	
9.2 Other information	Not available.	
Section 10. Stability and reactivity		
10.1 Reactivity	Not available.	
10.2 Chemical stability	Stable at normal conditions.	
10.3 Possibility of hazardous reactions	None known.	
10.4 Conditions to avoid	Heat, flames and sparks.	
10.5 Incompatible materials	Not available.	
10.6 Hazardous decomposition products	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
Ethanol (CAS 64-17-5)		
Acute		

Inhalation (LC50)	Rat	124.7 mg/l – vapor 4 h
Oral (LD50)	Rat	10,470 mg/kg

Methanol (CAS 67-56-1)

Acute

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

Gamma butyrolactone (CAS 96-48-0)

Acute

Inhalation (LC50)	Rat (male and female)	> 5.1 mg/l, 4 Hours
Oral (LD50, LDLO)	Rat (male and female)	1582 mg/kg
Dermal (LD50)	Guinea pig	>5000 mg/kg

tert-alkyl(C12-C14)ammonium bis(1-((2-hydroxy-5-nitrophenyl)azo)-2-naphthalenolato(2-))-chromate(1-) (CAS: 117527-94-3)

Oral (LD50)	Rat	> 5000 mg/kg
Inhalation (LC50)	Rat	> 5.9 mg/l, 4 Hours
Dermal (LD50)	rabbit	> 2,000 mg/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

Skin corrosion/irritation

Not available.

Serious eye damage/eye irritation

Causes serious eye damage

Respiratory or skin sensitisation

Not available.

Germ cell mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

May damage the unborn child

STOT-single exposure;

Causes damage to organs, May cause drowsiness or dizziness

STOT-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
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
Methanol (CAS 67-56-1)			
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
Gamma butyrolactone (CAS 96-48-0)			
Fish	static test LC50	Lepomis macrochirus (Bluegill sunfish)	56 mg/l - 96 h
Daphnia and other aquatic invertebrates	static test EC50	Daphnia magna (Water flea)	>500 mg/l - 48 h
Algae	IC50	Desmodesmus subspicatus (green algae)	1.000 mg/l - 72 h
Bacteria	EC20	activated sludge	4.518 mg/l - 40 hours
tert-alkyl(C12-C14)ammonium bis(1-((2-hydroxy-5-nitrophenyl)azo)-2-naphthalenolato(2-))-chromate(1-) (CAS: 117527-94-3)			
Fish	LC50	Brachydanio rerio	>100 mg/l - 96 h
Daphnia and other aquatic invertebrates	LC50	Daphnia magna	> 1,000 mg/l- 24 h
Cyclohexanone (CAS 108-94-1)			
Daphnia and other aquatic invertebrates	LC50	Daphnia magna (Water flea)	820 mg/l - 24 h
12.2 Persistence and degradability	Data are not available.		
12.3 Bioaccumulative potential	Does not significantly accumulate in organisms.		
12.4 Mobility in soil	Data are not available.		

12.5 Results of PBT and vPvB assessment	According to the results of its assessment, this substance is not a PBT or a vPvB			
12.6 Endocrine disrupting properties	Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0,1\%$.			
12.7 Other adverse effects	Data are not available.			
Section 13. Disposal considerations				
13.1 Waste treatment methods				
Product	Dispose of waste material in accordance with local, state and federal pollution regulations.			
Contaminated packaging	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	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 Packing 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	2-December-2016
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