

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

1.1. Product identifier

Product name **SoluJET® 2707C**

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 Serious eye damage (Category 1), H318
 Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336

2.2. Label elements

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

Pictograms



GHS02 GHS05 GHS07

Signal word	Danger
Hazard statements	H225- Highly flammable liquid and vapor. H318- Causes serious eye damage H336-May cause drowsiness or dizziness.
Precautionary statements	
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. H261- Avoid breathing dust/fume/gas/mist/vapors/spray. P264+P265 H271-Use only outdoors or in a well-ventilated area. 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. P303+P361+P353: IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water (or shower). P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P317: Get emergency medical help. 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	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
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Ethanol	64-17-5	200-578-6	>66	Flam. Liq. 2, H225 Eye Irrit. 2, H319
1-methoxy-2-propanol	107-98-2	203-539-1	≤ 10	Flam. Liq. 3: H226 STOT SE 3: H336
n-propanol	71-23-8	200-746-9	≤ 10	Flam. Liq. 2, H225 STOT SE 3: H336 Eye Dam. 1, H318
γ-Butyrolactone	96-48-0	202-509-5	≤5	Acute Tox.(O) 4: H302 STOT (SE) 3; H336 Eye Dam. 1, H318
Acetone	67-64-1	200-662-2	<4	Flam. Liq. 2: H225 Eye Irrit. 2: H319 STOT SE 3: H336

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	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
GB	n-propanol	71-23-8		WEL	200	500	250	625	EH40/2005
EU	Acetone	67-64-1		IOELV	500	1210			2000/39/EC
GB	Acetone	67-64-1		WEL	500	1210	1500	3,620	EH40/2005

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
1-methoxy-2-propanol	DNEL	553.5 mg/m ³	human, inhalatory	worker (industry)	acute- systemic effects
	DNEL	369 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
	DNEL	183 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Acetone	DNEL	2.400 mg/m ³	human, inhalatory	worker (industry)	acute- systemic effects
	DNEL	1 210 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
	DNEL	186 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
n-propanol	DNEL	1.723 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
	DNEL	268 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
	DNEL	1.723 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
	DNEL	136 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
γ-Butyrolactone	DNEL	19 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
	DNEL	130 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
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
n-propanol	PNEC	1 mg/L	marine water
	PNEC	2.28 mg/kg	marine sediment
	PNEC	22.8 mg/kg	freshwater sediment
	PNEC	10 mg/L	freshwater
	PNEC	96 mg/L	sewage treatment plant (STP)
	PNEC	2.2 mg/kg	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
γ-Butyrolactone	PNEC	0,02 mg/l	marine sediment
	PNEC	0,0056 mg/l	marine water
	PNEC	0,56 mg/l	air
	PNEC	0,24 mg/l	freshwater sediment
	PNEC	0,056 mg/l	freshwater
	PNEC	452 mg/l	sewage treatment plant (STP)
	PNEC	0,01468 mg/l	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	Cyan
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
Acetone (CAS 67-64-1)		
Acute		
Inhalation (LC50)	Rat	50.100 mg/m ³
Oral (LD50)	Rat	5.800 mg/kg
Dermal (LD50)	Guinea pig	7.426 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
n-propanol (71-23-8)		
Oral (LD50)	Rat	1,870 mg/kg
Dermal (LD50)	Rabbit	5,040 mg/kg
Gamma butyrolactone (CAS 96-48-0)		
Inhalation (LC50)	Rat (male and female)	> 5.1 mg/l, 4 Hours
Dermal (LD50)	Guinea pig	>5000 mg/kg
Oral (LD50)	Rat (male and female)	1582 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	Not available.	
STOT-single exposure;	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 (<i>Daphnia magna</i>)	7.7 - 11.2 mg/l, 48 hours
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>)	> 100 mg/l, 96 hours

Acetone (CAS 67-64-1)

Fish	LC50	<i>Oncorhynchus mykiss</i> (rainbow trout)	5.540 mg/l - 96 h
Daphnia and other aquatic invertebrates	LC50	<i>Daphnia magna</i> (Water flea)	8,800 mg/l - 48 h

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

Fish	LC50	<i>Oncorhynchus mykiss</i> (rainbow trout)	>1000 mg/l - 96 h
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n-propanol (71-23-8)

Fish	EC50	<i>Pimephales promelas</i> (fathead minnow)	4.555 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50	<i>Daphnia magna</i> (Water flea)	3.642 mg/l - 48 h
Toxicity to algae	EC50	<i>Pseudokirchneriella subcapitata</i> (green algae)	9.170 mg/l - 48 h

Gamma butyrolactone (CAS 96-48-0)

Fish	static test LC50	<i>Lepomis macrochirus</i> (Bluegill sunfish)	56 mg/l - 96 h
Daphnia and other aquatic invertebrates	static test EC50	<i>Daphnia magna</i> (Water flea)	>500 mg/l - 48 h
Algae	IC50	<i>Desmodesmus subspicatus</i> (green algae)	1.000 mg/l - 72 h
Bacteria	EC20	activated sludge	4.518 mg/l - 40 hours

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

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Version # 1.1

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