

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

1.1. Product identifier

Product name **SoluJET® 2701W**
 Synonym(s) White 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 Serious eye damage (Category 1), H318.
 Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336
 Sensitization, Skin (Category 1), H317
 Hazardous to the aquatic environment, long-term hazard (Category 3), H412

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. H317- May cause an allergic skin reaction. H412- Harmful to aquatic life with long lasting effects
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. P261- Avoid breathing dust/fume/gas/mist/vapors/spray. P272- Contaminated work clothing should not be allowed out of the workplace. P273- Avoid release to the environment. 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. P303+P361+P353: IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water (or shower). P333+P313: IF SKIN irritation or rash occurs: Get medical advice/attention. P310: Immediately call a POISON CENTER or doctor/physician. P363: Wash contaminated clothing before reuse.
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	>60	200-578-6 603-002-00-5	Flam. Liq. 2: H225 Eye Irrit. 2: H319
N-propanol	71-23-8	<15	200-746-9 603-003-00-0	Flam. Liq. 2, H225 Eye Dam. 1, H318 STOT SE 3, H336
1-methoxy-2-propanol	107-98-2	<10	203-539-1 603-064-00-3	Flam. Liq. 3; H226 STOT SE 3; H336
n-Butanol	71-36-3	<3	200-751-6 603-004-00-6	Flam. Liq. 3, H226 Acute Tox. 4, H302 Eye Dam. 1, H318 Skin Irrit. 2: H315 STOT SE 3, H336, H335
Additives	Proprietary	<2	NA	Not classified
White pigment	Proprietary	<10	NA	Skin Sens. 1B: H317 Aquatic Chronic 3: H412

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 (CO₂) or dry chemical.

Unsuitable extinguishing media Not available.

5.2. Special hazards arising from the substance or mixture

Not applicable.

5.3. Advice for firefighters

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.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

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

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.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3. Methods and materials for containment and cleaning up

Not available.

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 ³)	STEL (ppm)	STEL (mg/m ³)	Source
IE	N-propanol	71-23-8		OELV	200	500	250	625	S.I. No. 619 of 2001
IE	n-Butanol	71-36-3		OELV			25	75	S.I. No. 619 of 2001
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 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
N-propanol	DNEL	136 mg/ m ³	human, dermal	worker (industry)	chronic - systemic effects
	DNEL	268 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
	DNEL	1723 mg/m ³	human, inhalatory	worker (industry)	acute- systemic effects
N-butanol	DNEL	310 mg/m ³	human, inhalatory	worker (industry)	chronic – local 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
• 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		
N-propanol	PNEC	1 mg/cm ³	marine water		
	PNEC	22.8 mg/cm ³	freshwater sediment		
	PNEC	10 mg/cm ³	freshwater		
	PNEC	2.2 mg/cm ³	soil		
N-butanol	PNEC	0.082 mg/L	freshwater		
	PNEC	0.0082 mg/L	marine water		
	PNEC	2476 mg/L	sewage treatment plant (STP)		
	PNEC	0.324 mg/kg	freshwater sediment		
	PNEC	0.015 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.

Other

Wear appropriate chemical resistant clothing.

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

Appearance	White liquid
Odor	Characteristic
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point;	Not available.
Initial boiling point and boiling range	>70°C
Flash point	14°C (closed-cup)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or	

explosive limits		
Flammability limit - lower (%)	Not available.	
Flammability limit - upper (%)	Not available.	
Explosive limit - lower (%)	Not available.	
Explosive limit - upper (%)	Not available.	
Vapor pressure	Not available.	
Vapor density	Not available.	
Relative density	Not available.	
Solubility(ies)	Soluble in ethanol.	
Partition coefficient: n-octanol/water	Not available.	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity (cPs)	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 toxicological effects		
Acute toxicity value		
Components	Species	Test results
Ethanol (CAS 64-17-5)		
Acute		

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
N-propanol (CAS 71-23-8)		
Acute		
Dermal (LD50)	Rabbit	5040mg/kg
Oral (LD50)	Rat	1870mg/kg
n-Butanol (CAS 71-36-3)		
Acute		
Inhalation (LC50)	Rat	8000 mg/l, 4 Hours
Oral (LD50)	Rat	790mg/kg
Dermal (LD50)	Rabbit	3,400mg/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
Skin corrosion/irritation	Skin Contact: May cause skin irritation. Skin Absorption: May be harmful if absorbed through the skin.	
Serious eye damage/eye irritation	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.	
Respiratory sensitization	Not available.	
Skin sensitization	Not available.	
Germ cell mutagenicity	Not available.	
Carcinogenicity	Not available.	
Specific target organ toxicity - single exposure	Not available.	
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

N-propanol (CAS 71-23-8)

Fish	LC50	Fathead minnow (Pimephales promelas)	> 4.555 mg/l, 96 hours
Crustacea	EC50	Water flea (Daphnia magna)	3.642 mg/l, 48 hours
Algae	EC50	Pseudokirchneriella subcapitata (green algae)	9.170 mg/l -,48 h

n-Butanol (CAS 71-36-3)

Fish	LC50	Fathead minnow (Pimephales promelas)	1,840 mg/l, 96 hours
Daphnia and other aquatic invertebrates	EC50	Daphnia magna (Water flea)	1,983 mg/l - 48 h

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

Fish	LC50	Oncorhynchus mykiss (rainbow trout)	>1000 mg/l - 96 h
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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.

12.6 Other adverse effects Not available.

Section 13. Disposal considerations

13.1 Waste treatment methods 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.

13.2 Relevant provisions relating to waste The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

13.3 Remarks

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.

Section 14. Transport information**14.1 UN number**

UN1210

14.2 UN proper shipping name

Hazardous ingredients

Printing ink, flammable

(Ethanol, n-Propanol, n-butanol, 1-methoxy-2-propanol)

14.3 Transport hazard class(es)

Class 3

(flammable liquids)

14.4 Packing group

II

14.5 Environmental hazards

none (non-environmentally hazardous acc. to the dangerous goods regulations)

14.6 Special precautions for user

DOT Classification only applies to shipments within the US and Puerto Rico.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC

Not applicable

Code**14.8 Information for each of the UN Model Regulations****• Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)****UN number**

UN1210

UN proper shipping name

Printing ink

Transport hazard class(es)Classes: 3 Flammable liquid
Label :3**Packing group**

II

Danger labels**• International Maritime Dangerous Goods Code (IMDG)****UN number**

UN1210

UN proper shipping name

Printing ink

Transport hazard class(es)Classes: 3 Flammable liquid
Label :3**Packing group**

II

Danger labels**• International Civil Aviation Organization (ICAO-IATA/DGR)**

UN number	UN1210
UN proper shipping name	Printing ink
Transport hazard class(es)	Classes: 3 Flammable liquid Label :3
Packing group	II
Danger labels	

**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	21-September-2015
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