


1 - Identification

Product identifier	SoluJET®2701W
Other means of identification	Not available
Synonym(s)	2701 White solvent pigment ink
Recommended use	Inkjet Printing
Recommended restrictions	None Known
Issue date	21-September-2015
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

2 - Hazard(s) identification

Physical hazards	Flammable liquids	Category 2
Health hazards	Eye irritation (Category 2), H319 Mild skin irritation (category 3), H316 Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336	
Label elements		
Signal word	Danger	
Hazard statement	H225- Highly flammable liquid and vapor. H319- Causes serious eye irritation. H316- Cause mild skin irritation H336- May cause drowsiness or dizziness.	
Precautionary statement		
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.	

Response	<p>P243 - Take precautionary measures against static discharge. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P273 - Avoid release to the environment. 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> <p>P302+P305+ P337+P352 : If on Skin/in eyes: Wash with plenty of water P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.</p>
Storage	P403 + P235 - Store in a well-ventilated place. Keep cool.
Disposal	P501- Dispose of contents/container in accordance with local/regional/national/international regulations.
Environmental hazards	Not available

3 - Composition/information on ingredients

Mixtures

Hazardous components Chemical name	CAS Number	%
Ethanol	64-17-5	>60
n-Propanol	71-23-8	<15
1-Methoxy-2-propanol	107-98-2	<10
n-Butanol	71-36-3	<3
White pigment	Proprietary	<10
Additives	Proprietary	<2

4. First-aid measures

Inhalation	<p>Move person to fresh air immediately. If symptoms persist, get immediate medical attention.</p>
Skin contact	<p>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.</p>
Eye contact	<p>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.</p>
Ingestion	<p>Rinse mouth out with water. If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.</p>

Most important symptoms/ effects, acute and delayed	Never give anything by mouth to an unconscious person. Get medical attention immediately. See section 8.
5. Fire-fighting measures	
FLASH POINT:	14°C (closed-cup)
Suitable extinguishing media	Suitable extinguishing media: sand, carbon dioxide (CO ₂) or dry chemical.
Unsuitable extinguishing media	Not available.
Specific hazards arising from the chemical	Not applicable.
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.
6. Accidental release measures	
Personal precautions, protective equipment and emergency procedures	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.
Environmental precautions	Use personal protective equipment to minimize exposure to skin and eye. In the case of vapor formation use a respirator with an approved filter. Do not flush into surface water or sanitary sewer system.
Methods and materials for containment and cleaning up	Not available.
7. Handling and storage	
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.
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. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR1910.1000)

Components	Type	Value
Ethanol (CAS 64-17-5)	PEL	1900 mg/m ³ 1000 ppm
n-Propanol (CAS 71-23-8)	PEL	200 ppm
n-Butanol (CAS 71-36-3)	TWA	300 mg/m ³ 100 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
Ethanol (CAS 64-17-5)	STEL	1000 ppm
n-Propanol (CAS 71-23-8)	STEL	250ppm
n-Butanol (CAS 71-36-3)	TWA	20ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Ethanol (CAS 64-17-5)	TWA	1900 mg/m ³ 1000 ppm
n-Butanol (CAS 71-36-3)	REL	50ppm 150mg/m ³
1-methoxy-2-propanol (CAS 107-98-2)	REL	360mg/m ³ 100ppm

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls Not available.

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	Not available.
Other	Wear appropriate chemical resistant clothing. 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.

9. Physical and chemical properties

Appearance	White liquid
Odor	Vinous odor
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	Not available	
10. Stability and reactivity		
Reactivity	Not available.	
Chemical stability	Stable at normal conditions.	
Possibility of hazardous reactions	None known.	
Conditions to avoid	Heat, flames and sparks.	
Incompatible materials	Not available.	
Hazardous decomposition products	Not available.	
11. Toxicological information		
Symptoms related to the physical, chemical and toxicological characteristics	Not available.	
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	5.5 g/kg 5.6 g/kg

	Mouse Rat	Mouse 3450 mg/kg Rat 7060 mg/kg 6.2 g/kg
Other		
LD50	Mouse Rat	933 mg/kg 1440 mg/kg
n-Propanol (CAS 71-23-8)		
Acute		
Inhalation		
LC50	Rat	20000 mg/l, 1 Hour
Oral		
LD50	Rat	8.038mg/kg
Dermal		
LC50	Rabbit	4.000mg/kg
n-Butanol (CAS 71-36-3)		
Acute		
Inhalation		
LC50	Rat	8000 mg/l, 4 Hours
Dermal		
LD50	Rabbit	3,400mg/kg
Oral		
LD50	Rat	790mg/kg
1-methoxy-2-propanol (CAS 107-98-2)		
Acute		
Inhalation		
LC50	Rat	10000 mg/l, 5 Hours
Dermal		
LD50	Rabbit	13000 mg/kg
Oral		
LD50	Mouse	11700 mg/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: May be harmful if swallowed.
Respiratory sensitization	Based on available data, the classification criteria are not met.
Skin sensitization	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.

12. Ecological information

Aquatic toxicity

Ecotoxicity

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

n-Propanol (CAS 71-23-8)

Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>)	4.555 mg/l, 96 hours
Daphnia and other aquatic invertebrates	EC50	<i>Daphnia magna</i> (Water flea)	3.642 mg/l - 48 h

n-Butanol (CAS 71-36-3)

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

Persistence and degradability	Not available.
Bioaccumulative potential	Not available.
Partition coefficient n-octanol / water (log Kow)	
Ethanol (CAS 64-17-5)	-0.31
n-Propanol (CAS 71-23-8)	0.25
n-Butanol (CAS 71-36-3)	0.88
1-methoxy-2-propanol (CAS 107-98-2)	No data available
Mobility in soil	Not available.
Other adverse effects	Not available.
13. Disposal considerations	
Disposal instructions	Do not dispose of together with general office waste. Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Ensure collection and disposal with an appropriately licensed waste contractor.
Local disposal regulations	Not available.
Hazardous waste code	Not regulated.
Waste from residues / unused products	Not available.
Contaminated packaging	Not available.
14. Transport information	
DOT	
UN number	UN1210
UN proper shipping name	Printing ink, flammable (Ethanol, n-Propanol, n-butanol, 1-methoxy-2-propanol)
Transport hazard class(es)	3
Subsidiary class(es)	Not available.
Packing group	II

Special precautions for user	<p>Passenger aircraft Quantity limitation: 5 L</p> <p>Cargo aircraft Quantity limitation: 60 L</p> <p>Special provisions 24, IB2, T4, TP1</p>
Labels required	Not available.
IATA	
UN number	UN1210
UN proper shipping name	Printing ink, flammable (Ethanol, n-Propanol, n-butanol, 1-methoxy-2-propanol)
Transport hazard class(es)	3
Subsidiary class(es)	-
Packaging group	II
Environmental hazards	No
Labels required	Not available.
ERG Code	Not available.
Special precautions for user	<p>Passenger and Cargo Aircraft Quantity limitation: 5 L</p> <p>Cargo Aircraft Only Quantity limitation: 60 L</p> <p>Limited Quantities - Passenger Aircraft Quantity limitation: 1 L</p>
IMDG	
UN number	UN1210
UN proper shipping name	Printing ink, flammable (Ethanol, n-Propanol, n-butanol, 1-methoxy-2-propanol)
Transport hazard class(es)	3
Subsidiary class(es)	-
Packaging group	II
Environmental hazards	No
Marine pollutant	No
Labels required	Not available.

EmS Not available.

Special precautions for user Not available.

Section 15 - Regulatory Information

US federal regulations US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders under TSCA.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) n-Butanol (CAS 71-36-3)

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not on regulatory list.

CERCLA Hazardous Substance List (40 CFR 302.4) Not on regulatory list.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No
SARA 302 Extremely hazardous substance-No
SARA 311/312
Hazardous chemical-No

US state regulations

US. Massachusetts RTK - Substance List Ethanol (CAS 64-17-5)
n-Propanol (CAS 71-23-8)
n-Butanol (CAS 71-36-3)

US. New Jersey Worker and Community Right-to-Know Act n-Propanol (CAS 71-23-8)
n-Butanol (CAS 71-36-3)

US. Pennsylvania RTK - Hazardous Substances Ethanol (CAS 64-17-5)
n-Propanol (CAS 71-23-8)
n-Butanol (CAS 71-36-3)

US. Rhode Island RTK Ethanol (CAS 64-17-5)

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT) Not on regulatory list.

Listed substance:

Section 16 - Other Information

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