

1 - Identification

Product identifier	SoluJET® 2704B
Other means of identification	Not available.
Synonym(s)	Not available.
Recommended use	Inkjet Printing
Recommended restrictions	None Known.
Issue date	14-Oct-2015
Company identification	MYLAN GROUP Long Duc Industrial Park Tra Vinh City, Tra Vinh Province, Vietnam Tel. 84-74-3846-997 Fax 84-74-3846-998

2 - Hazard(s) identification

Classification according to Regulation (EC) No 1272/2008 [CLP]: Flammable liquids. Category 2

Health hazards Not classified.

OSHA hazard(s) Not classified.

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



GHS02 GHS06 GHS08

GHS signal word Danger

GHS hazard statement H225- Highly flammable liquid and vapor.
H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.
H370-H336 Causes damage to the central nervous system and optic nerve.
May cause drowsiness or dizziness.

GHS 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.
P243 - Take precautionary measures against static discharge.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face

	<p>protection. P273 - Avoid release to the environment.</p> <p>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>
Response	P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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.
Hazard(s) not otherwise classified (HNOC)	Not classified.
Environmental hazards	Hazardous to the aquatic environment, long-term hazard Category 3
Additional information:	EUH209 Can become highly flammable in use. EUH210 Safety data sheet available on request.

3 - Composition/information on ingredients

Hazardous Components (Chemical Name)/ REACH Registration No.	CAS Number	%	EC No./ EC index No	GHS Classification
Ethyl alcohol	64-17-5	>55	200-578-6 603-002-00-5	Flam. Liq. 2, H225 Eye Irrit. 2, H319
Methyl alcohol	67-56-1	<30	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 TOST (SE) 1: H370
N-Hexanol	111-27-3	<5	203-852-3 603-059-00-6	Flam. Liq. 3: H226 Acute Tox.(O) 4: H302 Acute Tox.(D) 4: H312 Eye Irrit. 2, H319
Blue solvent dye	Proprietary	<10	NA	Not classified

4. First-aid measures

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.			
Most important symptoms/ effects, acute and delayed	See section 8.			
5. Fire-fighting measures				
FLASH POINT:	20°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. Use personal protective equipment to minimize exposure to skin and eye. In the case of vapor formation use a respirator with an approved filter.			
Environmental precautions	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.			
8. Exposure controls/personal protection				
Occupational exposure limits				
Component	CAS	US	EU	UK
Ethyl alcohol	64-17-5	1000 ppm TWA OSHA PEL 1000 ppm STEL ACGIH TLV	None Established	1000 ppm TWA
Methyl alcohol	67-56-1	200 ppm TWA OSHA PEL	200 ppm TWA skin	200 ppm TWA, 250 ppm STEL

200 ppm TWA,
250 ppm STEL skin
ACGIH TLV

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

Biological limit values

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



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.



9. Physical and chemical properties

Appearance	Blue 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	20°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 ethyl alcohol, methyl alcohol.		
Partition coefficient: n-octanol/water	Not available.		
Auto-ignition temperature	Not available.		
Decomposition temperature	Not available.		
Viscosity (cPs)	1.0 - 2.0		
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	
Ethyl alcohol (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
Methyl alcohol (CAS 67-56-1)		
Acute		
Inhalation		
LC50	Rat	128.2mg/l, 4 Hours 87.6mg/l, 6 Hours
Oral		
LD50	Rat	1.187 - 2.769 mg/kg
LDLO	Human	143mg/kg
Dermal		
LD50	Rabbit	17.100 mg/kg
N-Hexanol (CAS 111-27-3)		
Acute		
Oral		
LD50	Rat	720 mg/kg
Dermal		
LD50	Rabbit (male)	1.5 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: 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		

Eco toxicity			
Components		Species	Test Results
Ethyl alcohol (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
Methyl alcohol (CAS 67-56-1)			
Fish	LC50 NOEC	<i>Lepomis macrochirus</i> (Bluegill) <i>Oryzias latipes</i>	15.400,0 mg/l - 96 h 7.900 mg/l - 200 h
Crustacea	EC50	Water flea (<i>Daphnia magna</i>)	10.000,00 mg/l - 48 h
N-Hexanol (CAS 111-27-3)			
Fish	LC50	<i>Pimephales promelas</i> (fathead minnow)	97.7 mg/l - 96 h
Daphnia and other aquatic invertebrates	EC50	<i>Daphnia magna</i> (Water flea)	100 mg/l - 24 h
Persistence and degradability	Not available.		
Bioaccumulative potential	Not available.		
Partition coefficient n-octanol / water (log Kow)			
Ethyl alcohol (CAS 64-17-5)	-0.31		
Methyl alcohol (CAS 67-56-1)	-0.77		
N-Hexanol (CAS 111-27-3)	2.03		
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 (Ethyl alcohol, Methyl alcohol, N-Hexanol)	
Transport hazard class(es)		Classes: 3 Flammable liquid Label :3
Subsidiary class(es)	Not available.	
Packing group	II	
Special precautions for user	Passenger aircraft Quantity limitation: 5 L Cargo aircraft Quantity limitation: 60 L	
Labels required	Not available.	
IATA		
UN number	UN1210	
UN proper shipping name	Printing ink, flammable (Ethyl alcohol, Methyl alcohol, N-Hexanol)	
Transport hazard class(es)		Classes: 3 Flammable liquid Label :3
Subsidiary class(es)	-	
Packaging group	II	
Environmental hazards	No	
Labels required	Not available.	
RG Code	Not available.	
Special precautions for user	Passenger and Cargo Aircraft Quantity limitation: 5 L Cargo Aircraft Only Quantity limitation: 60 L Limited Quantities - Passenger Aircraft Quantity limitation: 1 L	

IMDG

UN number	UN1210
UN proper shipping name	Printing ink, flammable (Ethyl alcohol, Methyl alcohol, N-Hexanol)
Transport hazard class(es)	 Classes: 3 Flammable liquid Label :3
Subsidiary class(es)	-
Packaging group	II
Environmental hazards	
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)	Not regulated.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not on regulatory list.
CERCLA Hazardous Substance List (40 CFR 302.4)	
Methyl alcohol (CÁS 67-56-1)	Reportable quantity: 5000 lbs.
NIOSH-Ca (National Institute for Occupational Safety and Health)	Not on regulatory list.
Canadian Domestic Substances List (DSL)	Not on regulatory list.
Canadian Ingredient Disclosure list (limit 0.1%)	Ethyl alcohol (CAS 64-17-5)
Canadian Ingredient Disclosure list (limit 1%)	Methyl alcohol (CAS 67-56-1) N-Hexanol (CÁS 111-27-3)

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57 None of the ingredients are listed.

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 Ethyl alcohol (CAS 64-17-5)
Methyl alcohol (CAS 67-56-1)

US. New Jersey Worker and Community Right-to-Know Act Methyl alcohol (CAS 67-56-1)

US. Pennsylvania RTK - Hazardous Substances Ethyl alcohol (CAS 64-17-5)
Methyl alcohol (CAS 67-56-1)

US. Rhode Island RTK Ethyl alcohol (CAS 64-17-5)
Methyl alcohol (CAS 67-56-1)

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance Methyl alcohol (CAS 67-56-1)

Section 16 - Other Information

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