

GHS SAFETY DATA SHEET

GROUP		
1 - Identification		
Product identifier	SoluJET®2720B	
Other means of identification	Not available	
Synonym(s)	SoluJET®2720B blue solvent- based ink	
Recommended use	Inkjet Printing	
Recommended restrictions	None Known	
Issue date	12-January-2018	
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	Acute toxicity, Oral (Category 3), H301 Acute toxicity, Inhalation (Category 3), H337 Acute toxicity, Dermal (Category 3), H311 Specific target organ toxicity - single exposu Serious eye damage (Category 1), H318 Mild skin irritation (category 3), H316 Carcinogenicity (Category 2), H351 Specific target organ toxicity - single exposu Respiratory system, H335	ire (Category 1), H370
Label elements		i >
Signal word	Danger	
Hazard statement	 H225- Highly flammable liquid and vapor. H301 + H311 + H331- Toxic if swallowed, in contribution inhaled. H370- Causes damage to organs. H318- Causes serious eye damage H316- Causes mild skin irritation. H351- Suspected of causing cancer. H335- May cause respiratory irritation 	ontact with skin or if

Precautionary statement			
Prevention	smoking. P233 - Keep contair P240 - Ground/Bond P241 - Use explosior P242 - Use only non	d container and receivin n-proof electrical/ventila -sparking tools.	g equipment. ting/lighting/equipment.
	P260 Do not breath P264 Wash thoroug P280 - Wear protec protection/face pro P370+P378- In case dioxide, water spra large fires, use wate extinguish. Use wate	tive gloves/protective cl	apours/spray. othing/eye dry chemical, carbon im to extinguish. For esistant foam to osed containers. Water
Response	you feel unwell. Rin: P304 + P340 + P311 comfortable for bre P305 + P351 + P338 several minutes. Re Continue rinsing. Im P303 + P361 + P353		son to fresh air and keep ENTER/doctor autiously with water for present and easy to do. N CENTER/doctor. The off immediately all
Storage	P403 + P235 - Store	in a well-ventilated place	e. Keep cool.
Disposal	•	ntents/container in acco onal/international regula	
Environmental hazards	Not available		
3 - Composition/informat	ion on ingredients		
Mixtures			
Hazardous components Chemical name	CAS Number		%
Ethanol	64-17-5		>35
Methanol	67-56-1 <25		<25
1-Vinyl-2-pyrrolidinone	88-12-0		<25
N-propanol	71-23-8		<5
Cyclohexanone	108-94-1		<5
Blue solvent dye	Proprietary		<5

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	Suitable extinguishing media: sand, carbon dioxide (CO2) or dry
media	chemical.
Unsuitable extinguishing media	Not available.
Specific hazards arising from the chemical	Carbon oxides, Nitrogen oxides (NOx)
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 meas	sures
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.

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Methods and materials for containment and cleaning	Soak up with inert absorbe waste. Keep in suitable, clo	ent material and dispose of as hazardous sed containers for disposal.
up		
7. Handling and storage		
Precautions for safe handling	Avoid contact with skin, eye or mists of this product. Use with adequate ventilati Wear personal protective e	
Conditions for safe storage including any incompatibilities	, Keep containers tightly clos place. Keep away from he	sed in a dry, cool and well-ventilated at, sparks and flame.
8. Exposure controls/per	sonal protection	
Occupational exposure		
limits		
US. OSHA Table Z-1 Limits fo	or	
Air Contaminants		
(29 CFR1910.1000)		
Components	Туре	Value
Ethanol (CAS 64-17-5)	PEL	1900 mg/m3 1000 ppm
Methanol (CAS 67-56-1)	PEL	260mg/m ³ 200ppm
Cyclohexanone	PEL	200mg/m ³
(CAS 108-94-1)		50ppm
N-propanol (CAS 71-23-8)	PEL	500 mg/m3 200 ppm
US. ACGIH Threshold Limit Values		
Components	Туре	Value
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Methanol (CAS 67-56-1)	STEL	250ppm
Cyclohexanone (CAS 108-94-1)	STEL	50ppm
N-propanol (CAS 71-23-8)	STEL	250ppm
US. NIOSH: Pocket Guide to Chemical Hazards		
Components	Туре	Value

Ethanol (CAS 64-17-5)	ΓWA	1900 mg/m3 1000 ppm
Methanol (CAS 67-56-1)	ΓWA	260mg/m³ 200ppm
Cyclohexanone 1 (CAS 108-94-1)	ΓWA	100mg/m³ 25ppm
N-propanol (CAS 71-23-8)	ΓWA	500 mg/m3 200 ppm
Biological limit values	No biological exposure limits noted for the ing	gredient(s).
Appropriate engineering	Not available.	
Individual protection measures, such as personal protective equipment		
	Wear safety glasses; chemical goggles (if spl Eye wash fountain and emergency showers o	•
Skin protection		
Hand protection	Not available.	
	Wear appropriate chemical resistant clothing Wear appropriate chemical resistant gloves.	g.
	Provide adequate ventilation. In case of insu suitable respiratory equipment.	fficient ventilation wear
Thermal hazards	Not available.	
considerations	Do not get this material in contact with skin., eyes and clothing. When using, do not eat, drink or smoke. Wasl and immediately after handling the product Launder contaminated clothing before reuse	n hands before breaks
9. Physical and chemical pro	operfies	
Appearance	Blue liquid	
Odor	Vinous odor	
Odor threshold	Not available	
На	Not available	
Melting point/freezing point;	Not available	
Initial boiling point and	>70°C	
boiling range		
Flash point 2	20°C (closed-cup)	
1		

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-	Not available
octanol/water	
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	on	
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 Mouse Rat	5.5 g/kg 5.6 g/kg Mouse 3450 mg/kg Rat 7060 mg/kg 6.2 g/kg
Other		
LD50	Mouse Rat	933 mg/kg 1440 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
1-Vinyl-2-pyrrolidinone (CAS 88-12-0)		
Acute		
Inhalation	Harmful by inhalation	
Dermal	Harmful in contact with skin	

Material name: SoluJET® 2720B Version #: 02 Issue date: 12-Jan-2018 Revision date: 2-Jan-2019

Oral		
LD50	Rat	1470mg/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
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
Skin corrosion/irritation	Skin Contact: May cause skin irritation. Skin Absorption: May be harmful if absorbed	d through the skin.
Serious eye damage/eye irritation	Eye Contact: May cause eye irritation. Inhalation: May be harmful if inhaled. Mate mucous membranes and upper respiratory Ingestion: May be harmful if swallowed.	, 0
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	Based on available data, the classification	criteria are not met.
- repeated exposure		

12. Ecological information			
Aquatic toxicity			
Ecotoxicity			
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 NOEC	Lepomis macrochirus (Bluegill) Oryzias latipes	15.400,0 mg/l - 96 h 7.900 mg/l - 200 h
Crustacea	EC50	Water flea (Daphnia magna)	10.000,00 mg/l - 48 h
1-Vinyl-2-pyrrolidinone (CAS 88-12-0)			
Fish	static test LC50	Oncorhynchus mykiss (rainbow trout)	913 mg/l - 96 h
Daphnia and other aquatic invertebrates	static test EC50	Daphnia magna (Water flea)	45 mg/l - 48 h
Algae	static test EC50	Desmodesmus subspicatus (green algae) -	1.000 mg/l - 72 h
Bacteria	EC20	activated sludge	1.995 mg/l - 30 min
Cyclohexanone			
(CAS 108-94-1)			
Daphnia and other aquatic	LC50	Daphnia magna (Water flea)	820 mg/l - 24 h
invertebrates			
N-propanol (CAS 71-23-8)			
Fish	LC50	Fathead minnow (Pimephales promelas)	4.555 mg/l, 96 hours
Daphnia and other aquatic	EC50	Daphnia magna (Water flea)	3.642 mg/l - 48 h
invertebrates			

Persistence and	Not available.
degradability	
Bioaccumulative potential	Not available.
Partition coefficient n-	
octanol / water (log Kow)	
Ethanol (CAS 64-17-5)	-0.31
Methanol (CAS 67-56-1)	-0.77
1-Vinyl-2-pyrrolidone (CAS 88-12-0)	0.4
Cyclohexanone(CAS 108-94-1)	0.81
N-propanol (CAS 71-23-8)	0.25
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, methanol, cyclohexanone, n-propanol)
Transport hazard class(es)	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 Special provisions 24, IB2, T4, TP1
Labels required	Not available.
ΙΑΤΑ	
UN number	UN1210
UN proper shipping name	Printing ink, flammable (Ethanol, methanol, cyclohexanone, n-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	Passenger and CargoAircraftQuantity limitation: 5 LCargo Aircraft OnlyQuantity limitation: 60 LLimited Quantities -Passenger AircraftQuantity limitation: 1 L
IMDG	
UN number	UN1210
UN proper shipping name	Printing ink, flammable (Ethanol, methanol, cyclohexanone, n-propanol)
Transport hazard class(es)	3
Subsidary class(es)	-
Packaging group	II

Environmental hazards	No
Marine pollutant	
Labels required	Not available.
EmS	Not available.
Special precautions for user	Not available.
Section 15 - Regulatory Inf	ormation
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)	Methanol (CAS 67-56-1)Reportable quantity: 5000 lbs.Cyclohexanone(CAS 108-94-1) Reportable quantity: 5000 lbs.N-propanol (CAS 71-23-8)Reportable quantity: 100 lbs.
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-Yes
US state regulations	
US. Massachusetts RTK - Substance List	Ethanol (CAS 64-17-5) Methanol (CAS 67-56-1) Cyclohexanone (CAS 108-94-1) N-propanol (CAS 71-23-8)
US. New Jersey Worker and Community Right-to-Know Act	Methanol (CAS 67-56-1) Cyclohexanone (CAS 108-94-1) N-propanol (CAS 71-23-8)

US. Pennsylvania RTK - Hazardous Substances	Ethanol (CAS 64-17-5) Methanol (CAS 67-56-1) Cyclohexanone (CAS 108-94-1) N-propanol (CAS 71-23-8)
US. Rhode Island RTK	Ethanol (CAS 64-17-5) Methanol (CAS 67-56-1) Cyclohexanone (CAS 108-94-1)
US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT):	Methanol (CAS 67-56-1)
Listed substance	
Section 16 - Other Information	
Issue date	12-January-2018
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