


1 - Identification

Product identifier	SoluJET® 2720K
Other means of identification	Not available
Synonym(s)	Not available
Recommended use	Inkjet Printing
Recommended restrictions	None Known
Issue date	02-December-2016
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

Physical hazards	Flammable liquids.	Category 2
Health hazards	Not classified.	
OSHA hazard(s)	Not classified.	
Label elements		
Signal word	Danger	
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.	
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. 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.	

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
3 - Composition/information on ingredients		
Mixtures	CAS Number	%
Ethanol	64-17-5	>30
Methanol	67-56-1	>20
Cyclohexanone	108-94-1	<10
Black solvent dye	Proprietary	<10
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:	10°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

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
Methanol (CÁS 67-56-1)	PEL	260mg/m ³ 200ppm
Cyclohexanone (CAS 108-94-1)	PEL	200mg/m ³ 50ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Methanol (CÁS 67-56-1)	STEL	250ppm
Cyclohexanone (CAS 108-94-1)	STEL	50ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Ethanol (CAS 64-17-5)	TWA	1900 mg/m ³ 1000 ppm
Methanol (CÁS 67-56-1)	TWA	260mg/m ³ 200ppm
Cyclohexanone (CAS 108-94-1)	TWA	100mg/m ³ 25ppm

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	Black 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	10°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 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 (CÁS 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
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
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			
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 (CÁS 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
Cyclohexanone (CAS 108-94-1)			
Daphnia and other aquatic invertebrates	LC50	Daphnia magna (Water flea)	820 mg/l - 24 h
Persistence and degradability		Not available.	
Bioaccumulative potential		Not available.	
Partition coefficient n-octanol / water (log Kow)			
Ethanol (CAS 64-17-5)		-0.31	
Methanol (CÁS 67-56-1)		-0.77	
Cyclohexanone (CAS 108-94-1)		0.81	
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)	
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.
IATA	
UN number	UN1210
UN proper shipping name	Printing ink, flammable (Ethanol, Methanol, Cyclohexanone)
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 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 (Ethanol, Methanol, Cyclohexanone)
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) 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 (CÁS 67-56-1) Reportable quantity: 5000 lbs.

Cyclohexanone (CÁS 108-94-1) Reportable quantity: 5000 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 No

US state regulations

US. Massachusetts RTK - Substance List Ethanol (CAS 64-17-5)
Methanol (CAS 67-56-1)
Cyclohexanone (CAS 108-94-1)

US. New Jersey Worker and Community Right-to-Know Act Methanol (CÁS 67-56-1)
Cyclohexanone (CAS 108-94-1)

US. Pennsylvania RTK - Hazardous Substances Ethanol (CAS 64-17-5)
Methanol (CAS 67-56-1)
Cyclohexanone (CAS 108-94-1)

US. Rhode Island RTK Ethanol (CAS 64-17-5)
Methanol (CAS 67-56-1)
Cyclohexanone (CÁS 108-94-1)

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance Methanol (CÁS 67-56-1)

Section 16 - Other Information

Issue date 02-Dec-2016

Revision date 24-Jan-2017

Version # 02

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