


1 - Identification

Product identifier	SoluJET® 2720K
Other means of identification	Not available
Synonym(s)	Black ink
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. +84-294-3846-997 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), H331 Acute toxicity, Dermal (Category 3), H311 Specific target organ toxicity - single exposure (Category 1), H370 Serious eye damage (Category 1), H318 May damage the unborn child (Category 1B), H360D
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- Causes damage to organs. H318- Causes serious eye damage H360D-May damage the unborn child.
Precautionary statement	
Prevention	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood.

	<p>P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.</p> <p>P233 - Keep container tightly closed.</p> <p>P240 - Ground/Bond container and receiving equipment.</p> <p>P241 - Use explosion-proof electrical/ventilating/lighting/equipment.</p> <p>P242 - Use only non-sparking tools.</p> <p>P243 - Take precautionary measures against static discharge.</p> <p>P270 - Do not eat, drink or smoke when using this product.</p> <p>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</p>																		
Response	<p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor.</p> <p>P308+P313: IF exposed or concerned: Get medical advice/attention.</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>																		
Storage	<p>P403 + P235 - Store in a well-ventilated place. Keep cool.</p> <p>P405 - Store locked up.</p>																		
Disposal	<p>P501- Dispose of contents/container in accordance with local/regional/national/international regulations.</p>																		
Environmental hazards	<p>Not available</p>																		
3 - Composition/information on ingredients																			
Mixtures	<table border="1"> <thead> <tr> <th></th> <th>CAS Number</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Ethanol</td> <td>64-17-5</td> <td>>34</td> </tr> <tr> <td>Methanol</td> <td>67-56-1</td> <td>≤30</td> </tr> <tr> <td>γ-Butyrolactone</td> <td>96-48-0</td> <td>≤25</td> </tr> <tr> <td>Cyclohexanone</td> <td>108-94-1</td> <td>≤5</td> </tr> <tr> <td>Black solvent dye</td> <td>Proprietary</td> <td><6</td> </tr> </tbody> </table>		CAS Number	%	Ethanol	64-17-5	>34	Methanol	67-56-1	≤30	γ-Butyrolactone	96-48-0	≤25	Cyclohexanone	108-94-1	≤5	Black solvent dye	Proprietary	<6
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4. First-aid measures																			
Inhalation	<p>Move person to fresh air immediately.</p> <p>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.</p> <p>Get medical attention, if needed.</p>																		

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:	18°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 allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Suitable material for taking up: absorbing material, organic, sand
Methods and materials for containment and cleanup	Take up liquid spill into absorbent material, e.g.: sand/earth. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

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 (CAS 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 (CAS 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 (CAS 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	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	Black 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	18°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
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Oral

LD50	Dog Guinea pig Mouse Rat	5.5 g/kg 5.6 g/kg Mouse 3450 mg/kg Rat 7060 mg/kg
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Methanol (CAS 67-56-1)

Acute

Inhalation

LC50	Rat	128.2mg/l, 4 Hours 87.6mg/l, 6 Hours
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Oral

LD50	Rat	1.187 - 2.769 mg/kg
LDLO	Human	143mg/kg

Dermal

LD50	Rabbit	17.100 mg/kg
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**Cyclohexanone
(CAS 108-94-1)**

Acute

Inhalation

LC50	Rat	> 6.2 mg/l, 4 Hours
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Dermal

LD50	rabbit	3,160 mg/kg
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Oral

LD50	Rat	1,534 mg/kg
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**Gamma butyrolactone
(CAS 96-48-0)**

Acute

Inhalation

LC50	Rat (male and female)	> 5.1 mg/l, 4 Hours
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Dermal

LD50	Guinea pig	>5000 mg/kg
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Oral

LD50	Rat (male and female)	1582 mg/kg
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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.

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
Methanol (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
Cyclohexanone (CAS 108-94-1)			
Daphnia and other aquatic invertebrates	LC50	<i>Daphnia magna</i> (Water flea)	820 mg/l - 24 h

Gamma butyrolactone**(CAS 96-48-0)**

Fish	static test LC50	Lepomis macrochirus (Bluegill sunfish)	56 mg/l - 96 h
Daphnia and other aquatic invertebrates	static test EC50	Daphnia magna (Water flea)	>500 mg/l - 48 h
Algae	IC50	Desmodesmus subspicatus (green algae)	1.000 mg/l - 72 h
Bacteria	EC20	activated sludge	4.518 mg/l – 40 hours

Persistence and degradability

Not available.

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
Cyclohexanone (CAS 108-94-1)	0.81
Gamma butyrolactone (CAS 96-48-0)	-0.566

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 available.

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, γ -Butyrolactone, 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, γ -Butyrolactone, 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
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IMDG

UN number	UN1210
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UN proper shipping name	Printing ink, flammable (Ethanol, Methanol, γ -Butyrolactone, cyclohexanone)
Transport hazard class(es)	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

Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical safety assessment

No chemical safety assessment has been carried out.

Section 16 - Other Information

Issue date 2-December-2016

Revision date 23-April-2021

Version # 4.1

Disclaimer

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