

SAFETY DATA SHEET

According to 1907/2006/EC (REACH), 453/2010 (EC), 1272/2008/EC (CLP) and OSHA GHS

1 - Identification

Product identifier SoluJET® 2701K

Other means of

Not available.

identification

Synonym(s) 2701 black solvent ink

Recommended use Inkjet Printing

Recommended

None Known.

restrictions

Issue date

19-September-2013

Company identification MYLAN GROUP

Long Duc Industrial Park

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2 - Hazard(s) identification

Classification according

to Regulation (EC) No

1272/2008 (CLP):

Physical hazard Flammable liquids. Category 2

Health hazards Eye irritation (Category 2), H319

Mild skin irritation (category 3)

Specific target organ toxicity - single exposure (Category 3), Central

nervous system, H336

Labeling according to

Regulation (EC) No

1272/2008 (CLP):



GHS02 GHS07

GHS signal word Danger

GHS hazard statement H225- Highly flammable liquid and vapor.

H319- Causes serious eye irritation

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H316- Causes mild skin irritation

H336- 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.

P280 - Wear protective gloves/protective clothing/eye protection/face

protection.

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 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

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.

Environmental hazards Not available

Additional information: EUH209 Can become highly flammable in use.

EUH210 Safety data sheet available on request.

3 - Composition/information on ingredients

Hazardous Components	CAS Number	%	EC No./	GHS Classification
(Chemical Name)/ REACH Registration No.			EC index	
			No	
Ethanol	64-17-5	>80	200-578-6 603-002-00-5	Flam. Liq. 2, H225 Eye Irrit. 2, H319
Cyclohexanone	108-94-1	<5	20203-631-1 606-010-00-7	Flam. Liq. 3, H226 Acute Tox. 4, H302, H332 Skin Irrit. 2, H315 Eye Dam. 1, H318

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Flam. Liq. 1: H224 200-662-2 Acetone 67-64-1 <5 Eye Irrit. 2: H319 606-001-00-8 STOT SE 3: H336 Polyurethane resins **Proprietary** <3 NA Not classified Not classified Black dyes mixture **Proprietary** <7 NA 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. See section 8. **Most important** symptoms/ effects, acute and delayed 5. Fire-fighting measures 14°C (closed-cup). **FLASH POINT:** Suitable extinguishing Suitable extinguishing media: sand, carbon dioxide (CO2) or dry chemical. media Not available. **Unsuitable extinguishing** media Not applicable. Specific hazards arising from the chemical **Special protective** Firefighters should wear full protective clothing including self-contained breathing apparatus. Avoid run off into storm sewers and ditches which equipment and lead to waterways. precautions for firefighters Move containers from fire area if you can do it without risk. Fire-fighting equipment/instructions

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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 Do not flush into surface water or sanitary sewer system.

precautions

Methods and materials

for

containment and

cleaning up

Not available.

7. Handling and storage

Precautions for safe

Avoid contact with skin, eyes and clothing. Avoid breathing vapors or

mists of this product.

handling

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		
Ethanol	64-17-5	1000 ppm TWA OSHA PEL 1000 ppm STEL ACGIH TLV	None Established	1000 ppm TWA		
Cyclohexanone	108-94-1	1000 ppm TWA OSHA PEL	None Established	None Established		
Acetone	67-64-1	590 mg/m³ TWA OSHA PEL 750 ppm STEL ACGIH TLV	None Established	590 mg/m³ TWA, 750 ppm STEL		
Biological limit values	No biological exposure limits noted for the ingredient(s).					
Appropriate engineering Controls	Not available.					

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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

on

Wear appropriate chemical resistant gloves.

Other

Wear appropriate chemical resistant clothing.

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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

Not available.

point;

Initial boiling point and >70°C

boiling range

Flash point 14°C (closed-cup)

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

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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.

Not available. **Vapor pressure**

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.

Not available. **Decomposition**

temperature

Viscosity (cPs) Not available.

10. Stability and reactivity

Not available. Reactivity

Chemical stability Stable at normal conditions.

Possibility of hazardous

reactions

None known.

Not available.

Conditions to avoid Heat, flames and sparks.

Incompatible materials Not available.

Hazardous

decomposition

products

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11. Toxicological information Symptoms related to the Not available. physical, chemical and toxicological characteristics Information on toxicological effects **Acute toxicity value Test results Components Species Ethanol** (CAS 64-17-5) **Acute** Inhalation LC50 Mouse 39 mg/l, 4 Hours Rat 20000 mg/l, 10 Hours Oral LD50 Dog 5.5 g/kg Guinea pig 5.6 g/kg Mouse Mouse 3450 mg/kg Rat Rat 7060 mg/kg 6.2 g/kg Other LD50 Mouse 933 mg/kg Rat 1440 mg/kg Cyclohexanone (CAS 108-94-1) Acute Inhalation LC50 Rat > 6.2 mg/l, 4 Hours Dermal LD50 rabbit 3,160 mg/kg Acetone (CAS 67-64-1) Acute Inhalation LC50 Rat 50.100 mg/m³ Oral LD50 Rat 5.800 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 Based on available data, the classification criteria are not met.

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

Specific target organ

- single exposure

toxicity

Specific target organ toxicity

- repeated exposure

Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met. **Aspiration hazard**

12. Ecological information

Aquatic toxicity

Eco toxicity

Components Species Test Results

Ethanol

(CAS 64-17-5)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 7.7 - 11.2 mg/l, 48 hours

LC50 Fish Fathead minnow > 100 mg/l, 96 hours

(Pimephales promelas)

Cyclohexanone

(CAS 108-94-1)

Daphnia and other LC50 Daphnia magna (Water flea) 820 mg/l - 24 h

aquatic invertebrates

Acetone

(CAS 67-64-1)

Fish LC50 Oncorhynchus mykiss 5.540 mg/l - 96 h

(rainbow trout)

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aquatic invertebrates

Bioaccumulative Not available.

potential

Partition coefficient n-

octanol / water (log

Kow)

Ethanol -0.31

(CAS 64-17-5)

Cyclohexanone 0.81

(CAS 108-94-1)

Acetone -0.24

(CAS 67-64-1)

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

Not available.

packaging

14. Transport information

DOT

UN number UN1210

UN proper shipping name Printing ink, flammable (Ethanol, Cyclohexanone, Acetone)

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Transport hazard

class(es)



Classes: 3 Flammable liquid

Label:3

Subsidiary class(es)

Not available.

Packing group

Special precautions for

user

DOT Classification only applies to shipments within the US and Puerto

Rico.

Labels required

Not available.

IATA

UN number

UN1210

UN proper shipping name

Printing ink, flammable (Ethanol, Cyclohexanone, Acetone)

Transport hazard

class(es)

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Classes: 3 Flammable liquid

Label:3

Subsidiary class(es)

Packaging group

Environmental hazards No

Labels required Not available.

ERG Code Not available.

Special precautions for

user

Not available.

IMDG

UN number UN1210

UN proper shipping name Printing ink, flammable (Ethanol, Cyclohexanone, Acetone)

Transport hazard

class(es)

Classes: 3 Flammable liquid

Label:3

Subsidiary class(es)

Packaging group

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Environmental hazards No

Marine pollutant

Labels required Not available.

Ems Not available.

Special precautions for

use

Not available.

Section 15 - Regulatory Information

US Federal regulationsUS EPA TSCA Inventory: All chemical substances in this product comply

with all rules or orders under TSCA.

TSCA Section 12(b) Not regulated.

Export Notification (40 CFR 707, Subpt. D)

US. OSHA Specifically Not on regulatory list.

Regulated Substances (29 CFR 1910.1001-1050)

CERCLA Hazardous Not on regulatory list.

Substance List (40 CFR

302.4)

NIOSH-Ca (National Not on regulatory list.

Institute for Occupational

Safety and Health)

Canadian Domestic Not on regulatory list.

Substances List (DSL)

Canadian Ingredient Ethanol(CAS 64-17-5)

Disclosure list (limit 0.1%)

Canadian Ingredient Not on regulatory list.

Disclosure list (limit 1%)

Other regulations, limitations and

prohibitive regulations

Substances of very high None of the ingredients are listed.

concern (SVHC)

according to REACH,

Article 57

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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

No

SARA 311/312 Hazardous chemical

US state regulations

US. Massachusetts RTK - Ethanol (CAS 64-17-5)

Substance List Cyclohexanone (CAS 108-94-1)

Acetone (CAS 67-64-1)

US. New Jersey Worker Cyclohexanone (CAS 108-94-1)

and Community Right-to-

Know Act

US. Pennsylvania RTK - Ethanol (CAS 64-17-5)

Hazardous Substances Cyclohexanone (CAS 108-94-1)

Acetone (CAS 67-64-1)

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

Cyclohexanone (CAS 108-94-1)

Acetone (CAS 67-64-1)

US - California Proposition

Not on regulatory list.

65 - Carcinogens &

Reproductive Toxicity
(CRT): Listed substance

Section 16 - Other Information

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Version # 04

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combination with other substances.

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