

## **SAFETY DATA SHEET**

Issue date: Aug 21<sup>st</sup> 2015 According to Regulation (EC) No 1907/2006, Annex II, as amended by Revision date: Aug 20<sup>th</sup> 2021

Regulation EU No. 2015/830

## Section 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name SecuJET® 2550R

Synonym(s) Invisible ink

Registration number REACH Not applicable (mixture)

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Ink for inkjet printing

## 1.3. Details of the supplier of the safety data sheet

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

#### 1.4. Emergency telephone number

Phone number: +84-294-3846-997

## Section 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

## Classification according to Regulation (EC) No 1272/2008 (CLP):

Physical hazards Flammable liquids. Category 2, H225

Health hazards Eye irritation (Category 2), H319

#### 2.2. Label elements

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

**Pictograms** 

GHS02 GHS07

Signal word Danger

Hazard statements H225- Highly flammable liquid and vapor.

H319- Causes serious eye irritation.

Precautionary statements

Prevention P210 - Keep away from heat/sparks/open flames/hot surfaces. - No

smoking.

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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.

Response 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.

P303+P361+P353: IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water (or shower).

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P337+P313: IF eye irritation persists: Get medical advice/attention.

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.

2.3. Other hazards

PBT Substances None

vPvB Substances: None

Other hazards No other hazards

#### Section 3: Composition/information on ingredients

### 3.1. Substance No

#### 3.2. Mixtures

Hazardous Components	<b>CAS Number</b>	Concentration	EC No./	Classification		
(Chemical Name)/ REACH Registration No.		(%)	EC index No			
Ethanol	64-17-5	>85	200-578-6 603-002-00-5	Flam. Liq. 2, H225 Eye Irrit. 2, H319		
Cyclohexanone	108-94-1	<5	203-631-1 606-010-00-7	Flam. Liq. 3, H226 Acute Tox. 4, H332		
Invisible dye	Proprietary	<8	NA	Not classified		
Additives	Proprietary	<2	NA	Not classified		

#### **Section 4: First-aid measures**

#### 4.1. Description of first aid measures

#### In case of:

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

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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.

#### 4.2. Most important symptoms/ effects, acute and delayed

See section 11

#### 4.3. Indication of any immediate medical attention and special treatment needed

No special treatment needed, treat symptomatically.

## Section 5. Fire-fighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media** sand, carbon dioxide (CO2) or dry chemical.

**Unsuitable extinguishing** 

media

Not available.

#### 5.2. Special hazards arising from the substance or mixture

In case of fire, smoke and other combustion products may be formed, the inhalation of such combustion products can have serious adverse effects on health.

#### 5.3. Advice for firefighters

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.

### Section 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

**6.1.1. For non-emergency** 

personnel

Keep unprotected people away, allow only well-trained experts wearing suitable

protective clothing to abide in the field of accident.

6.1.2. For emergency

responders

Use personal protective clothing. Keep away sources of ignition.

### 6.2. 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

## 6.3. Methods and materials for containment and cleaning up

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.

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#### 6.4. Reference to other sections

For further and detailed information see section 8 and 13.

## Section 7. Handling and storage

**7.1 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.

7.2 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.

## Section 8. Exposure controls/personal protection

## 8.1 Control parameters National limit values

Occupat	cupational exposure limit values (Workplace Exposure Limits)								
Country	Name of agent	CAS No	Notation	Identifier	TWA (ppm)	TWA (mg/m³)	STEL (ppm)	STEL (mg/m³)	Source
EU	Cyclohexanone	108-94-1		IOELV	10	40.8	20	81.6	2000/39/ EC
MT	Cyclohexanone	108-94-1		OELV	10	40.8	20	81.6	L.N. 227
	Ethanol	64-17-5	Data are not available						

## Relevant DNELs/DMELs/PNECs and other threshold levels

<ul> <li>human he</li> </ul>	human health values							
	End point	Threshold level	Protection goal, route of exposure	Used in	Exposure time			
Ethanol	DNEL	1.900 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute- systemic effects			
	DNEL	343 mg/kg	human, dermal	worker (industry)	chronic - systemic effects			
	DNEL	950 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects			
Cyclohexanone	canone DNEL 20 mg/kg		human, dermal	worker (industry)	chronic - systemic effects			
	DNEL	20 mg/m3	human, inhalatory	worker (industry)	chronic – local effects			
	DNEL	20 mg/m3	human, inhalatory	worker (industry)	chronic - systemic effects			

#### environmental values

CITVITOTITIN	That values					
	End point	Threshold level	Environmental compartment			
Ethanol	PNEC	0,79 mg/cm <sup>3</sup>	marine water			
	PNEC	2,75 mg/cm <sup>3</sup>	air			
	PNEC	3,6 mg/cm <sup>3</sup>	freshwater sediment			
	PNEC	580 mg/cm <sup>3</sup>	sewage treatment plant (STP)			
	PNEC	0,63 mg/cm <sup>3</sup>	soil			
	PNEC	0,96 mg/cm <sup>3</sup>	freshwater			
Cyclohexanone	PNEC	0,0329 mg/cm <sup>3</sup>	marine water			

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	PNEC	0,0951 mg/cm <sup>3</sup>	freshwater sediment
	PNEC	0,0329 mg/cm <sup>3</sup>	freshwater
	PNEC	0,0143 mg/cm <sup>3</sup>	soil

#### 8.2 Exposure controls

### 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.

### Section 9. Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

**Appearance** Slight yellow liquid

Odor Characteristic
Odor threshold Not available.

**pH** Not available.

Melting point/freezing point; Not available.

Initial boiling point and boiling >70°C

range

Flash point 15°C (closed-cup)

**Evaporation rate** Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or

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explosive limits

Flammability limit – lower (%)

Flammability limit - upper (%)

Explosive limit – lower (%)

Not available.

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 (cPs) Not available.

**9.2 Other information** Not available.

#### Section 10. Stability and reactivity

**10.1 Reactivity** Not available.

**10.2 Chemical stability** Stable at normal conditions.

10.3 Possibility of hazardous

reactions

None known.

**10.4 Conditions to avoid** Heat, flames and sparks.

**10.5 Incompatible materials** Not available.

10.6 Hazardous decomposition

products

Hazardous combustion products: see section 5

## Section 11. Toxicological information

## 11.1 Information on toxicological effects

Acute toxicity value

Components Species Test results
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

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

Eye Contact: May cause eye irritation. irritation

Inhalation: May be harmful if inhaled. Material may be irritating to

mucous membranes and upper respiratory tract.

Ingestion: Harmful if swallowed.

Not available. **Respiratory sensitization** 

Not available. Skin sensitization

Germ cell mutagenicity Not available.

Not available. Carcinogenicity

Specific target organ toxicity

- single exposure

Not available.

Specific target organ toxicity

- repeated exposure

Not available.

**Aspiration hazard** Not available.

Section 12. Ecological information

12.1 Toxicity

**Aquatic toxicity** 

**Components Species Test Results** 

Ethanol (CAS 64-17-5)

**Aquatic** 

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

magna)

(Water flea)

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

(Pimephales promelas)

Cyclohexanone (CAS 108-94-1)

Daphnia and other aquatic LC50 Daphnia magna 820 mg/l - 24 h

invertebrates

12.2 Persistence and degradability Not available.

12.3 Bioaccumulative potential Not available.

12.4 Mobility in soil Not available.

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Not available.

assessment

12.6 Other adverse effects

Not available.

Section 13. Disposal considerations

13.1 Waste treatment methods

This material and its container must be disposed of as hazardous waste.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains.

Contaminated packaging

Not available.

13.2 Relevant provisions relating to

waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please

consider the relevant national or regional provisions.

**Section 14. Transport information** 

14.1 UN number

UN1210

14.2 UN proper shipping name

Hazardous ingredients

Printing ink, flammable (Ethanol, cyclohexanone)

14.3 Transport hazard class(es)



Class 3 (flammable liquids)

14.4 Packing group

**14.5 Environmental hazards** none (non-environmentally hazardous acc. to the dangerous goods

regulations)

**14.6 Special precautions for user** Provisions for dangerous goods (ADR) should be complied within the

premises

 $\parallel$ 

14.7 Transport in bulk according to

Not applicable

Annex II of MARPOL and the IBC

Code

14.8 Information for each of the UN Model Regulations

• Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

**UN number** UN1210

**UN proper shipping name** Printing ink

Transport hazard class(es) Classes: 3 Flammable liquid

Label:3

Packing group

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#### **Danger labels**



#### International Maritime Dangerous Goods Code (IMDG)

**UN number** UN1210

Printing ink **UN proper shipping name** 

Transport hazard class(es) Classes: 3 Flammable liquid

Label:3

**Packing group** 

**Danger labels** 



## International Civil Aviation Organization (ICAO-IATA/DGR)

UN1210 **UN number** 

**UN** proper shipping name Printing ink

Transport hazard class(es) Classes: 3 Flammable liquid

Label:3

**Packing group** 

**Danger labels** 



#### **Section 15 - Regulatory Information**

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

Regulation (EC) No 1907/2006 of the European Parliament and of the **EU** legislation

> Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Guidance Workplace Exposure Limits EH40. Safety Data Sheets for Substances and

Preparations.

15.2. Chemical safety assessment No chemical safety assessment has been carried out.

# Section 16 - Other Information

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