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Section 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name	RAPID PLUS
Product Category	INK PRODUCT
Pure Substance/Mixture	Mixture Contains Ethyl Lactate, Propyl alcohol

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

Recommended uses	Printing operations
Use against	No information available

1.3 Details of the supplier of the safety data sheet

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Section 2. HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

According to Regulation (CE) No 1272/2008

Serious Eye Damage/ Eye Irritation	Category 2 – (H318)
Specific Target Organ Toxicity (single exposure)	Category 2 – (H335)
Chronic Aquatic Toxicity	Category 3 – (H412)
Flammable Liquid	Category 3 – (H226)

2.2 Classic according to Directive 67/548/EEC or 1999/45/EC

Full text of R-phrases: see section 16

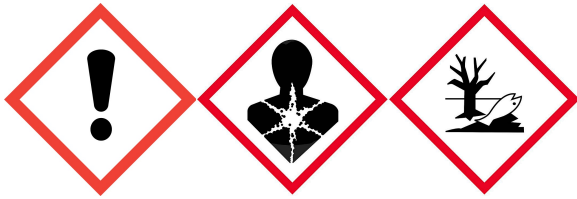
2.3 Symbol(s)

Xi - Irritant

2.4 R-code(s)

R10 – Xi; R41 – Xi; R37

2.5 Label Elements



Signal Word

Danger

Hazard Statements

H318 – Causes serious eye irritation
 H335 – May cause respiratory irritation
 H412 - Harmful to aquatic life with long lasting effects
 H226 - Flammable liquid and vapor

Precautionary Statements

P280 - Wear eye protection/ face protection
 P305 + P351+ P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact, if present and easy to do. Continue rinsing
 P310 - Immediately call a POISON CENTER or doctor/physician
 P370 + P378 - In case of fire: Use dry sodium carbonate to extinguish
 P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

2.6 Other Hazards

May be harmful if swallowed

General Hazards

May cause skin and eye irritation.

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

No information available

3.2 Mixtures

Component	EC No.	CAS-No	Weight %	Classifications	Classification According to Regulation (EC) No. 1272/2008 (CLP)	REACH No
Ethyl Lactate	EEC No. Present	97-64-3	60 - 85	R10 Xi; R37-41	Eye Dam. 1 (H318) STOT SE 3 (H335) Flam. Liq. 3 (H226)	No data available
Black Dye	Not Listed		1 - 15	Xn; R51/53	Aquatic Chronic 2 (H411)	No data available
Propyl alcohol	EEC No. Present	71-23-8	1-5	F; R11 Xi; R41 R67	Eye Dam. 1 (H318) STOT SE 3 (H336) Flam. Liq. 2 (H225)	No data available

Full text of H- and EIH-phrases: see section 16

Full text of R-phrases: see section 16

Note: Remaining components are either not hazardous or below threshold limits.

Section 4. FIRST AID MEASURES

4.1 Description of first aid measures

General Advice	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Immediate medical attention is required. If symptoms persist, call a physician.
Eye Contact	If symptoms persist, call a physician. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing
If on Skin	Wash off immediately with plenty of water. Wash contaminated clothing before reuse. If skin irritation persists, call a physician. Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Inhalation	Remove to fresh air. If symptoms persist, call a physician. Artificial respiration and/or oxygen may be necessary. Consult a physician. Move to fresh air in case of accidental inhalation of vapors.
Ingestion	Do NOT induce vomiting. Drink plenty of water. Immediate medical attention is not required. Rinse mouth. Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician.
Self Protection of First Aider	Remove all sources of ignition. Use personal protective equipment as required.

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate symptoms and effects, both acute and delayed

Note to Physician	Treat Symptomatically. May cause sensitization of susceptible persons. Use of epinephrine may be indicated.
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Section 5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media

Use. Carbon dioxide (CO₂). Dry chemical. Alcohol resistant foam.

Unsuitable Extinguishing Media

None

5.2 Special hazards arising from the substance or mixture

Flammable Thermal decomposition can lead to release of irritating and toxic gases and vapors in the event of fire and/or explosion do not breathe fumes May cause sensitization in susceptible persons

5.3 Advice for Firefighters

Wear self-contained breathing apparatus and protective suit. Wear self-contained breathing apparatus for fire-fighting if necessary.

Section 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precaution, protective equipment and emergency procedures

Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment as required. Keep people away from and upwind of spill/leak.

6.2 For emergency responders

Use personal protection recommended in Section 8.

6.3 Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

6.4 Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Pick up and transfer to properly labeled containers. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Soak up with inert absorbent material.

6.4 Reference to other sections

See section 7 for more information.

Section 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Handling

Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Use with local exhaust ventilation. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray.

Hygiene Measures

When using do not eat or drink. Regular cleaning of equipment, work area and clothing is recommended.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep containers tightly closed in a cool, well-ventilated place.

7.3 Specific end use(s)

Risk Management Methods (RMM)

The information required is contained in this safety Data Sheet

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Chemical Name	Eu	United Kingdom	France	Spain	Germany
Propyl alcohol 71-23-8		STEL: 250 ppm STEL: 625 mg/m ³ TWA: 200 ppm TWA: 500 mg/m ³ Skin	TWA: 200 ppm TWA: 500 mg/m ³	S* _{ISEP} VLA-EC: 400 ppm VLA-EC: 1000 mg/m ³ VLA-ED: 200 ppm VLA-ED: 500 mg/m ³	
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Propyl alcohol 71-23-8		STEL: 250 ppm STEL: 400 ppm TWA: 200 ppm			

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

8.2 Exposure controls

Engineering Measures

Ensure adequate ventilation, especially in confined areas.
Showers. Eyewash stations.

Personal Protective Equipment

Eye/Face Protection

Tight sealing safety goggles. Face protection shield_{ISEP}

Hand Protection

For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn

Skin and body Protection

Antistatic boots. Wear fire/flame resistant/retardant clothing. For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn. Suitable protective clothing. Apron.

Respiratory Protection

Use only with adequate ventilation. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Environmental exposure controls

Do not allow into any sewer, on the ground or into any body of water.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General Information

Physical State	Liquid	Appearance	Black
Odor	Characteristic		

Important health, safety, and environmental information

Flash Point	Approximately 47 °C
Boiling Point/Boiling Range (°C)	No information available
Auto-ignition Temperature	>200 °C
VOC Content	No information available
Solubility	Soluble in water
Evaporation Rate	No information available
Method	Seta closed cup
pH	5-7
Vapor Pressure	No information available
Viscosity	< 15 cps
Specific Gravity	1 -1.2
Vapor Density	Heavier than air
Flammability Limit in Air	No information available

9.2 Other Information

Melting Point/ melting range	No information available
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Section 10. STABILITY AND REACTIVITY

10.1 Reactivity

No information available

10.2 Chemical Stability

Stable under normal conditions

10.3 Explosion Data

Sensitivity to Mechanical Impact	None
Sensitivity to Static Discharge	None

10.4 Possibility of Hazardous Reaction

None under normal processing

10.5 Hazardous Polymerization

Hazardous polymerization does not occur.

10. Conditions to avoid

Heating in air

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Carbon oxides

Section 11. TOXICOLOGY INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

Product Information

The product has not been tested

Inhalation	Avoid breathing vapors or mists. Irritating to respiratory system.
Eye Contact	Avoid contact with eyes. Irritating to eyes. Risk of serious damage to eyes.
Skin Contact	Avoid contact with skin. May cause skin irritation and/or dermatitis.
Ingestion	May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Do NOT taste or swallow.

Unknown Acute Toxicity 10% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	2,557.00 mg/kg
ATEmix (dermal)	6,336.00 mg/kg

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl Lactate	>2000mg/kg (Rat)	>5000mg/kg (Rat)	
Propyl alcohol	=1870mg/kg (Rat)	= 4049 mg/kg (Rabbit)	>13548ppm (Rat) 4h

Skin corrosion/irritation	No information available.
Eye damage/irritation	Risk of serious damage to eyes. Irritating to eyes.
Sensitization	No information available.
Mutagenic Effects	No information available.
Carcinogenic effects	No information available.
Reproductive Effects	
STOT – single exposure	No information available.
STOT – repeated exposure	No information available.
Target Organ Effects	Central Nervous System (CNS), EYES, Gastrointestinal tract (GI), blood, skin.
Aspiration Hazard	No information available.

Section 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Harmful to aquatic life with long lasting effects

12.2 Eco-toxicity effects

Not established

83.8% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Toxicity to Fish	Crustacea
		4480: 96 h Pimephales promelas mg/L LC50 flow-	3642: 48 h Daphnia magna mg/L EC50 3339 -

		through	3977: 48 h Daphnia magna mg/L EC50 Static
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12.3 Persistence and degradability

No information available

12.4 Bio accumulative potential

No information available

Chemical name
Propyl Alcohol

Partition coefficient
0.34

12.4 Mobility in Soil

No information available

12.5 Results of PBT and vPvB assessment

This substance is considered to be persistent, bioaccumulating and toxic (PBT).

12.6 Other adverse effects

No information available

Section 13. DISPOSAL CONSIDERATIONS

13.1 Water treatment methods**Waste from residues/unused products**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Other Information

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. The user should assign waste codes. It based on the application for which the product was used.

Section 14. TRANSPORT CONSIDERATIONS

IMDG/IMO**14.1 UN-No**

Not regulated

14.2 Proper shipping name

Not regulated

14.3 Hazard Class

Not regulated

14.4 Packing group

Not regulated

14.5 Marine pollutant

Not regulated

14.6 Special Provisions

None

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available

RID/ADR/ICAO**14.1 UN-No**

Not regulated

14.2 Proper shipping name

Not regulated

14.3 Hazard Class

Not regulated

14.4 Packing group

Not regulated

14.5 Environmental Hazard

Not regulated

14.6 Special Provisions

Not regulated

None

IATA

14.1 UN-No	UN1210
14.2 Proper shipping name	Not regulated
14.3 Hazard Class	3
14.4 Packing group	III
14.5 Environmental Hazard	Not applicable
14.6 Special Provisions 	None

Section 15. REGULATORY INFORMATION

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

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

International Inventories

Chemical Name	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
Ethyl Lactate 97-64-3	X	X	X	X	X	X	X	X
Black Dye	-	X	-	X	X	X	X	X
Propyl alcohol 71-23-8	X	X	X	X	X	X	X	X

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

ECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

15.2 Chemical Safety Assessment

No information available

Section 16. OTHER INFORMATION

Full text of H-statements referred to under sections 2 and 3

R10 - Flammable

R41 - Risk of serious damage to eyes

R37 - Irritating to respiratory system

R11 - Highly flammable

R67 - Vapors may cause drowsiness and dizziness

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Full text of H-statements referred to under sections 2 and 3

H411 - Toxic to aquatic life with long lasting effects

H318 - Causes serious eye damage

H336 - May cause drowsiness or dizziness

H225 - Highly flammable liquid and vapor

H335 - May cause respiratory irritation

H226 - Flammable liquid and vapor

Issuing Date

12-December-2019

Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008**Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Date Sheet
