



COLOR INK PF

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier: COLOR INK PF

1.2. Relevant identified uses of the substance or mixture and uses advised against: Ink for printing.

1.3. Details of the supplier of the safety data sheet: Ichemco srl
via 11 Settembre, 5
20012 Cuggiono (MI)
Italy

Email address of the competent person: safety@ichemco.it

1.4. Emergency telephone number: 24hrs, UK: 844 892 0111; EU: +32 3 575 55 55

Further information obtainable from: Product safety department

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification in accordance with EC Directive 67/548/EC

R phrases: 11 Highly flammable.
36 Irritating to eyes.
66 Repeated exposure may cause skin dryness or cracking.
67 Vapours may cause drowsiness and dizziness.

2.2. Label elements

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Symbols of danger: Xi Irritant
F Highly flammable



R phrases: 11 Highly flammable.
36 Irritating to eyes.
66 Repeated exposure may cause skin dryness or cracking.
67 Vapours may cause drowsiness and dizziness.

S phrases: 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
33 Take precautionary measures against static discharges.

Contains: Ethyl acetate - 2-Propanol

Other applicable information: Safety data sheet available for professional user on request.

2.3. Other hazards: n. a.

ICHEMCO srl

via 11 Settembre, 5

20012 Cuggiono (MI) - ITALY

Phone +39 02 97243.1 - Fax +39 02 97243.200 - email: info@ichemco.it - internet: www.ichemco.it

SECTION 3: Composition/information on ingredients

3.1. Substances

n. a.

3.2. Mixtures

Substances presenting a health or environmental hazard within the meaning of directives 67/548/EEC, 1999/45/EC and 1272/2008 (CLP):

CAS	EINECS	Registration n.	Denomination	Content	Classification(*)
141-78-6	205-500-4	01-2119475103-46	Ethyl acetate	25 - 38%	Eye Irrit. 2; H319 Flam. Liq. 2; H225 STOT SE 3; H336 EUH066 LD50/dermal >2000 mg/kg LD50/oral = 4934 mg/kg
67-63-0	200-661-7	01-2119457558-25	2-Propanol	2.5 - 3%	Eye Irrit. 2; H319 Flam. Liq. 2; H225 STOT SE 3; H336 LD50/dermal = 13900 mg/kg LD50/oral = 5840 mg/kg

(*) For full text of the H- and EUH-phrases, see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures: If you feel unwell, seek medical advice. Take off immediately all contaminated clothing.

Inhalation: Move affected person to fresh air. Seek medical advice.

Eye contact: Flush immediately with large amounts of water for at least 15 minutes. Seek medical treatment.

Skin contact: Wash immediately with large amounts of water. Remove contaminated clothing. If irritation persists, seek medical advice.

Ingestion: Consult physician or poison control center immediately. Do not induce vomiting if not asked by the physician. Do not give anything orally without medical authorization if subject is unconscious.

4.2. Most important symptoms and effects, both acute and delayed: n. a.

4.3. Indication of any immediate medical attention and special treatment needed: n. a.

SECTION 5: Firefighting measures

5.1. Extinguishing media: Foam, dry chemical powder, carbon dioxide (CO₂).

Extinguishing media which must not be used: n. a.

5.2. Special hazards arising from the substance or mixture: Vapours are heavier than air and can travel along ground to remote ignition sources.

5.3. Advice for firefighters: Independent apparatus for respiratory protection.

Recommendations: Do not use water jets. If possible, take away any dangerous containers. Do not stay in the direction of the bottoms of containers. Cool the containers with spray water from a safe position. Fire-fighters must wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

Stop the outpouring, if possible without hazard. Circumscribe the loss and remove it by absorbing on dry sand or other inert materials. Remove any possible source of ignition. Control vapours with spray water. Do not smoke. Avoid contact. If the product has contaminated soil or waters, inform public authorities.

6.1. Personal precautions, n. a.
protective equipment and
emergency procedures:

6.2. Environmental precautions: n. a.

6.3. Methods and material for n. a.
containment and cleaning up:

6.4. Reference to other sections: Please also refer to Sections 8 and 13.

SECTION 7: Handling and storage

Avoid flames and radiant heating. This product must be stored, handled and used in hygienic and safe way, according to current regulations.

7.1. Precautions for safe handling: Do not use empty containers before decontamination. Prevent static electricity buildup. Do not flow waters polluted by the product into drains.

Advice on general occupational hygiene: (a) not to eat, drink and smoke in work areas;
(b) to wash hands after use; and
(c) to remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities: Store the product in fresh, ventilated areas, separated from heating sources. Floor must not be flammable, must be impermeable and must prevent pouring to the outside. Electric plant must comply to current regulations.

7.3. Specific end use(s): Nothing special to note about specific uses.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters:

Substance:	TLW-TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Ethyl acetate	400	1400	400	1440
2-Propanol	200	492	400	983

Ethyl acetate: AGW (Germany) TWA/8h: 1500 mg/m³; 400 ppm – STEL/15 min: 3000 mg/m³; 800 ppm
MAK (Germany)) TWA/8h: 1500 mg/m³; 400 ppm – STEL/15 min: 3000 mg/m³; 800 ppm
VLA (Spain) TWA/8h: 1460 mg/m³; 400 ppm
VLEP (France) TWA/8h: 1400 mg/m³; 400 ppm
WEL (UK) TWA/8 h 200 ppm - STEL/15 min: 400 ppm
DNEL
Short term systemic effects
Workers, Inhalatory = 1468 mg/m³; People, Inhalatory = 734 mg/m³
Short term local effects
Workers, Inhalatory = 1468 mg/m³; People, inhialatory = 734 mg/m³
Long term systemic effects
People, Oral = 4.5 mg/kg; People, Inhalatory = 367 mg/m³; People, Dermal = 37 mg/kg; Workers, oral = 734 mg/m³; Workers, dermal = 63 mg/kg; Workers, Inhalatory = 734 mg/m³
PNEC
Soft water: 0,24 mg/l; Sea water: 0,02 mg/l; Wastewater Treatment plant: 650 mg/l; Sediment(soft water): 1,15 mg/kg dw; Sediment (sea water): 0,115 mg/kg dw; Soil: 0,148 mg/kg dw; Secondary poisoning (oral): 0,2 g/kg

2-Propanol: AGW (Germany) TWA/8h: 500 mg/m³; 200 ppm – STEL/15 min: 1000 mg/m³; 400 ppm
 MAK (Germany) TWA/8h: 500 mg/m³; 200 ppm – STEL/15 min: 1000 mg/m³; 400 ppm
 VLA (Spain) TWA/8h: 500 mg/m³; 200 ppm – STEL/15 min: 1000 mg/m³; 400 ppm
 VLEP (France) STEL/15 min: 980 mg/m³; 400 ppm
 WEL (UK) TWA/8h: 999 mg/m³; 400 ppm – STEL/15 min: 1250 mg/m³; 500 ppm
 DNEL
 Long term systemic effects/consumers/oral: 26 mg/kg; inhalation: 89 mg/m³;
 dermal: 319 mg/kg – Workers/inhalation: 500 mg/m³; dermal: 888 mg/kg
 PNEC
 Microorganisms STP: 2251 mg/kg; soft water: 140.9 mg/kg; sediment (soft water):
 552 mg/kg; sea water: 140.9 mg/kg; sediment (sea water): 552 mg/kg; terrestrial
 compartment: 28 mg/kg; nutritional chain (secondary poisoning): 160 mg/kg; water,
 intermittent release: 140.9 mg/kg

8.2. Exposure controls: Ensure good ventilation and local exhaustion of the working area, to keep vapours concentration below the limits.

Appropriate engineering controls: Electric plant must comply to current regulations about use of flammable products.

Eye / face protection: Wear suitable goggles or face protection.

Hand protection: Wear suitable gloves during handling.

Skin protection: Use full protective clothing for chemicals (working-dress, apron).

Respiratory protection: Wear face protection and self-contained breathing apparatus if ambient exceeds TLV.

Thermal hazards: n. a.

Environmental exposure controls: n. a.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties:

(a) **Appearance:** Coloured liquid.

(a) **Physical state:** Liquid.

(b) **Colour:** n. a.

(c) **Odour:** As solvent.

(c) **Odour threshold:** n.a.

(d) **Melting point:** n.a.

Freezing point: n.a.

(e) **Boiling point or initial boiling point and boiling range:** n.a.

(f) **Flammability:** n.a.

(g) **Lower and upper explosion limit:** n.a.

(h) **Flash point:** 20 °C

(i) **Auto-ignition temperature:** n.a.

(j) **Decomposition temperature:** n.a.

(k) **pH:** n.a.

(l) **Kinematic viscosity:** n.a.

(m) **Solubility:** n.a.

(n) **Partition coefficient n-octanol/water (log value):** n.a.

(o) **Vapour pressure:** > 1 (aria = 1) mbar

(p) Density and/or relative density: 0.96 g/cm³

(q) Relative vapour density: n.a.

(r) Particle characteristics: n.a.

9.2. Other information: n. a.

SECTION 10: Stability and reactivity

Dangerous reactions with strong oxidizing agents.

10.1. Reactivity: n. a.

10.2. Chemical stability: n. a.

10.3. Possibility of hazardous reactions: n. a.

10.4. Conditions to avoid: Keep away from ignition source, heat, direct light.

10.5. Incompatible materials: n. a.

10.6. Hazardous decomposition products: Combustion can produce carbon oxides, toxic gases and fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects: It can cause allergic reactions at a cutaneous level (dermatitis by contact). The ingestion can provoke disturbs to the gastroenteric system with nausea, vomit and abdominal pains. For inhalation might cause congestion, irritation, cough and breathing difficulties.

acute toxicity: n. a.

irritation: n. a.

corrosivity: n. a.

sensitisation: n. a.

repeated dose toxicity: n. a.

carcinogenicity: n. a.

mutagenicity: n. a.

toxicity for reproduction: n. a.

Information on likely routes of exposure: n. a.

Symptoms related to the physical, chemical and toxicological characteristics: n. a.

Delayed and immediate effects as well as chronic effects from short and long-term exposure: n. a.

Interactive effects: n. a.

11.2. Information on other hazards: n. a.

SECTION 12: Ecological information

Product may contaminate the environment. Avoid contamination of soil, drains and surface waters. Do not disperse the material in the environment.

12.1. Toxicity: n. a.

- 12.2. Persistence and degradability: n. a.
- 12.3. Bioaccumulative potential: n. a.
- 12.4. Mobility in soil: n. a.
- 12.5. Results of PBT and vPvB assessment: n. a.
- 12.6. Endocrine disrupting properties: n. a.
- 12.7. Other adverse effects: n. a.

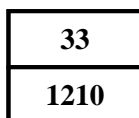
SECTION 13: Disposal considerations

- 13.1. Waste treatment methods: Consider the possibility of burning the material in a qualified incinerator oven, potentially adding combustible matter. Follow the local regulations. If solid, the material can be taken to an authorized stocking place. Never flush into drains, nor into surface or underground waters.

SECTION 14: Transport information

Transport only in accordance with ADR for road, RID for rail, IMDG for sea and ICAO for air transport.

- 14.1. UN number: 1210 - PRINTING INK, flammable (vapour pressure at 50 °C not more than 110 kPa)
- 14.2. UN proper shipping name: PRINTING INK
- 14.3. Transport hazard class(es): 3 - Flammable liquids
- 14.4. Packing group: II - Substances presenting medium danger
- Classification Code (ADR 2.2): F1 - Flammable liquids having a flash-point of or below 60 °C
- Mixed packing provisions (4.1.10): MP19 - May - in quantities not exceeding 5 litres per inner packaging - be packed together in a combination packaging conforming to 6.1.4.21:
- with goods of the same class covered by other classification codes or with goods of other classes, when mixed packing is also permitted for these; or
 - with goods which are not subject to the requirements of ADR, provided they do not react dangerously with one another.
- Transport category (1.1.3.6): 2
- Hazard identification No. (5.3.2.3): 33 - highly flammable liquid (flash-point below 23 °C)
- 14.5. Environmental hazards: n. a.
- Marine pollutant: No
- 14.6. Special precautions for user: n. a.
- 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:
- IMDG Page: 3272-1
- IMDG EMS: 3-05
- IMDG MFAG: 311
- Danger labels:



SECTION 15: Regulatory information

Information contained in this SDS is based on the present state of our knowledge and on Regulation (EC) No 1907/2006 of the European Parliament and subsequent updates.

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

15.2. Chemical safety assessment:
n. a.

SECTION 16: Other information

STIR ACCURATELY BEFORE USE

Full text of H phrases listed in Section 3:

- H225 Highly flammable liquid and vapour.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.

Glossary / List of acronyms

(STOT) RE - Repeated Exposure

(STOT) SE - Single Exposure

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

CMR - Carcinogen, Mutagen, or Reproductive Toxicant

DNEL - Derived No Effect Level

ECHA - European Chemicals Agency

EINECS - European Inventory of Existing Commercial Substances

GHS - Globally Harmonized System

IATA - International Air Transport Association

ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG - International Maritime Dangerous Goods

Kow - octanol-water partition coefficient

PBT - Persistent, Bioaccumulative and Toxic substance

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

SDS - Safety data sheet

STOT - Specific Target Organ Toxicity

SVHC - Substances of Very High Concern

UFI - Unique Formula Identifier

vPvB - Very Persistent and Very Bioaccumulative

Users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified under section 1 without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this SDS is meant as a description of the safety requirements of our product: it is not to be considered as a guarantee of the products' properties.

The information in this Safety Data Sheet is provided in accordance with the requirements of the Chemicals (Hazard Information and Packaging) regulations.