

COLOR INK PVC

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Product name: COLOR INK PVC
Intended use: Inks for PVC printing.
Manufacturer/Supplier: Ichemco srl
 via 11 Settembre, 5
 20012 Cuggiono (MI)
 Italy
Emergency telephone: + 39 02 97243.1
Further information obtainable from: Product safety department
Email address of the competent person: Dr. Barbara Chinello - safety@ichemco.it

2. HAZARD IDENTIFICATION OF THE PREPARATION

Nature of hazard: Product may cause irritation to the eyes, use protective measures. This product is flammable: it is necessary to follow all instructions and necessary measures to avoid risks of fire and explosion.

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances presenting a health or environmental hazard within the meaning of directives 67/548/EEC, 1999/45/EC and 2001/58/EC:

CAS	EINECS	EC Index	Denomination	%	Classification(*)
108-10-1		606-004-00-4	4-methyl-pentan-2-one	5 - 19	R 66; F R 11; Xn R 20 Xi R 36/37
108-94-1	203-631-1	606-010-00-7	Cyclohexanone	9 - 19	R 10 Xn; R 20
78-93-3	201-159-0	606-002-00-3	Ethyl methyl ketone	30 - 70	F; R 11 Xi; R 36 R 66 R 67

(*) For full text of the R-phrases see section 16.

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4. 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.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Foam, dry chemical powder, carbon dioxide (CO₂).

Extinguishing media which must not be used: Extinguishers with water.

Special exposure hazards: Vapours are heavier than air and can travel along ground to remote ignition sources.

Special protective equipment for fire-fighters: Independent apparatus for respiratory protection.

Recommendations: Do not use water. If possible, take away dangerous containers. Do not stay in the direction of containers' bottoms. Cool the containers with spray water from a safe position. Firemen have to wear self-contained breathing apparatus.

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.

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.

Handling: General ventilation is required. Local ventilation is recommended. Do not breathe vapour. Avoid skin and eye contact.

Storage: 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.

Requirements to be met by storerooms and receptacles: No special requirements.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Substance	TLW-TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
4-methyl-pentan-2-one		205		307
Cyclohexanone		100		
Ethyl methyl ketone	200	588	300	853

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

Engineering measures: Electric plant must comply to current regulations about use of flammable products.

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

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

Hand protection: Wear suitable gloves during handling.

Eye protection: Wear suitable goggles or face protection.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Coloured liquid.

Physical state: Liquid.

Smell: As solvent.

Flash point: < 21 °C

Density at 20°C: 0.96 g/cm³

Solubility in water: No

10. STABILITY AND REACTIVITY

The material is stable in normal use and stocking conditions. It can release carbon oxides and vapours that can be harmful to health if taken to hot temperatures or in case of fire. It reacts exothermically with sulfuric acid. Reacts violently with light metals (aluminium) and strong oxidants.

Thermal decomposition / conditions to be avoided: Keep away from ignition source, heat, direct light.

Dangerous reactions: Strongly oxidizing substances.

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

11. TOXICOLOGICAL INFORMATION

Product is irritant if inhaled and by eye contact. Ingestion might produce disturbs to digestive system with nausea, vomiting and stomachaches. If inhaled, congestion, irritation, cough and breathing difficulties might arise.

12. ECOLOGICAL INFORMATION

Prevent contamination of soil and surface waters. Avoid dispersion of material into soil, drains or surface waters. Avoid dispersion of residues into drains.

13. DISPOSAL CONSIDERATIONS

Consider the possibility of burning the material, eventually after adding combustible matter, in qualified incinerator oven. See local laws. If solid, the material can be taken to authorized stocking place. Never flush into drains, nor into surface or underground waters.

14. TRANSPORT INFORMATION

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

Transport name: PRINTING INK, flammable (vapour pressure at 50 °C not more than 110 kPa)

UN Nr.: 1210

Packing group: II - Substances presenting medium danger

Class: 3 - Flammable liquids

Classification Code (ADR 2.2): F1 - Flammable liquids having a flash-point of or below 61 °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)

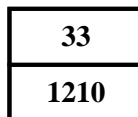
IMDG Page: 3272-1

IMDG EMS: F-E S-D

IMDG MFAG: 311

Marine pollutant: NO

Danger labels:



15. REGULATORY INFORMATION

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: | 9 Keep container in a well-ventilated place.
16 Keep away from sources of ignition - No smoking.
25 Avoid contact with eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
33 Take precautionary measures against static discharges.
43 In case of fire, use ^. |

Contains: 4-methyl-pentan-2-one - Cyclohexanone - Ethyl methyl ketone

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

16. OTHER INFORMATION

Modified sections: 2,3,9,11,12,15

STIR ACCURATELY BEFORE USE

Full text of R phrases listed in Section 2.

- 10** Flammable.
- 11** Highly flammable.
- 20** Harmful by inhalation.
- 36/37** Irritating to eyes and respiratory system.
- 66** Repeated exposure may cause skin dryness or cracking.
- 67** Vapours may cause drowsiness and dizziness.

Information contained in this SDS is based on the present state of our knowledge and on current EU (directives 67/548/EEC, 1999/45/EC, 2001/58/EC, and subsequent updates, and Regulation 2006/1907/EC of the European Parliament and of the Council of the EC, REACH) and national laws, as the 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.