



UNI EN ISO 9001:2015 UNI EN ISO 14001:2015 UNI ISO 45001:2018

COLOR INK PP PAMC

SAFETY DATA SHEET

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

1.1. Product identifier: COLOR INK PP PAMC

1.2. Relevant identified uses of the substance or mixture and uses advised against:	ERC: 11a, 2, 5, 8c
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 Regulation (EC) No. 1272/2008 (CLP)

Flam. Liq. 2;H225 Hi	ghly flammable liquid and vapour.
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- Skin Irrit. 2;H315Causes skin irritation.Eye Dam. 1;H318Causes serious eye damage.STOT SE 3;H336May cause drowsiness or dizziness.Aquatic Acute 1;H400Very toxic to aquatic life.
- Aquatic Chronic 1;H410 Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictograms: Hazard pictograms: GHS02 GHS05 GHS07 GHS09 Signal word: Hazard statements: H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H318 Causes serious eye damage. H336 May cause drowsiness or dizziness. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.

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

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Precautionary statements: P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P370+P378	In case of fire: Use suitable media (see MSDS for instruction) for extinction.
Contains: Isobutyl-alcoh	ol - Heptane [and isomers] - Octane [and isomers] - 2-Propanol
	of available data, the product does not contain PBT or vPvB quantities> = 0.1%.
· · · · ·	oes not contain substances having properties of interference with the item in a concentration> = 0.1%.

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):CASEINECSRegistration n.DenominationContentClassification(*)

CAS	EINECS	Registration n.	Denomination	Content	Classification(*)
67-63-0	200-661-7	01-2119457558-25	2-Propanol	20 - 25%	Eye Irrit. 2; H319
					Flam. Liq. 2; H225
					STOT SE 3; H336
				LD50/dermal = 13	3900 mg/kg
				LD50/oral = 5840	mg/kg
142-82-5	205-563-8	01-2119457603-38	Heptane [and isomers]	15 - 20%	Aquatic Acute 1; H400
					Aquatic Chronic 1; H410
					Asp. Tox. 1; H304
					Flam. Liq. 2; H225
					Skin Irrit. 2; H315
					STOT SE 3; H336
78-83-1	201-148-0	01-2119484609-23	Isobutyl-alcohol	5 - 10%	Eye Dam. 1; H318
			2-methylpropan-1-ol		Flam. Liq. 3; H226
			Isobutanol		Skin Irrit. 2; H315
					STOT SE 3; H335
					STOT SE 3; H336
111-65-9	203-892-1	01-2119463939-19	Octane [and isomers]	4 - 4.5%	Aquatic Acute 1; H400
					Aquatic Chronic 1; H410
					Asp. Tox. 1; H304
					Flam. Liq. 2; H225
					Skin Irrit. 2; H315
					STOT SE 3; H336

SECTION 4: First aid measures

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

Inhalation:	Move affected person to fresh air. Seek medical advise.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice.
Skin contact:	Wash immediately with large amounts of water. Remove contemned 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:		
5.2. Special hazards arising from the substance or mixture:	High temperature may liberate dangerous gases	
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.

protective equipment and	Wear gloves, protective clothing, safety goggles, boots, and protection for the respiratory (breathing apparatus). Eliminate all unguarded flames and possible sources of ignition. Do not smoke. Move out of danger unprotected and unauthorized persons.
6.2. Environmental precautions:	Prevent spillage of the material into sewers, groundwater and surface waters.
	Stop the outpouring, if possible without hazard. Circumscribe the loss and remove it by absorbing on dry sand or other inert materials.
4 A Deference to other costions.	Places also refer to Sections 9 and 12

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

Advice on general occupational	(a) not to eat, drink and smoke in work areas;
hygiene:	(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, Store the product in fresh, ventilated areas, separated from heating sources. Floor including any incompatibilities: must not be flammable, must be impermeable and must prevent pouring to the outside. Electric plant must comply to current regulations.

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

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters:

•	Substance:		TLW-TWA		EL	
			mg/m ³	ррт	mg/m³	
Isobutyl-alcohol		50	152	500	0050	
Heptane [and ison		400	1640	500	2050	
Octane [and isome	ers]	300	1401	375	2331	
2-Propanol		200	492	400	983	
2-Propanol: Heptane [and isomers]:	AGW (Germany) TWA/8h: 500 m ppm MAK (Germany) TWA/8h: 500 m ppm VLA (Spain) TWA/8h: 500 mg/m VLEP (France) STEL/15 min: 980 WEL (UK) TWA/8h: 999 mg/m3; DNEL Long term systemic effects/cons dermal: 319 mg/kg – Workers/ir PNEC Microorganisms STP: 2251 mg/k 552 mg/kg; sea water: 140.9 mg compartment: 28 mg/kg; nutrition intermittent release: 140.9 mg/k TWA/8h: 2100 mg/m3 – 500 pp 1668 mg/m3-400 ppm VLEP (Fr) 500 ppm TLV (It); 2085 mg/m3-50 (Fr) DNEL Cronic systemic effects people/oral >149 mg/kg; people mg/kg workers/inhalation>2085 mg/m3 TWA/8h: 310 mg/m3 – 100 ppn 154 mg/m3-50 ppm (VLA (Esp); ppm WEL (GB) STEL/15 min: 310 mg/m3 – 100 (Deu); 231 mg/m3-75 ppm WEL DNEL Consumer, cronic systemic effect inhalation > 55 mg/m3. Workers PNEC Reference values for Microorganisms STP >10 mg/kg; mg/kg; sea water>0,04 mg/kg; sig compartment>0,0699; water, inter-	mg/m3; 2 mg/m3; 2 mg/m3; 2 mg/m3; 2 mg/m3; 2 mg/m3; mg/m3; mg/m3; mg/m3; mg/m3; mg/m3; mg/m3; mg/m3; mg/m4 mg/m4 mg/m4 mg/m4 mg/m4 mg/m4 mg/m4 mg/m4 mg/m4 mg/m4 mg/m4 mg/m4 mg/m4 mg/m3 mg/m3 mg/m3; 2 mg/m3; 2 mg/m3 m	00 ppm - 00 ppm - 00 ppm - 50 ppm - 500 ppm n - STEL/ ral: 26 mg/ ater: 140 ment (sea n (second (Deu); 200 0EL (EU) AK (Deu) 0N >447 r rs/dermal Deu); 310 m3-50 pp W (Deu); sposure > onic effect er > 0,4 m sediment	STEL/15 STEL/15 L/15 min (15 min: 1 g/kg; inha m3; derm .9 mg/kg; water): 1 ary poiso 35 mg/m3 0 ppm W ; 2085 mg/m3 mg/m3 - m VLEP (310 mg/m 25 mg/kg; sof s>0,152	5 min: 100 5 min: 100 1000 mg 1250 mg/ 1250 mg/ 1250 mg/ 1250 mg/ 1250 mg/ 1250 mg/ 1250 mg/ 1250 mg/ 1352 mg/k 1352 mg/k 1400 ppr 154 m3 - 100 g; local cr tion > 310 51 water so mg/kg; te	00 mg/m3; 400 g/m3; 400 ppm m3; 500 ppm mg/m3; ng/kg t (soft water): cg; terrestrial D mg/kg; water, m VLA (Esp); 2085 mg/m3- D ppm VLEP rmal >149 m MAK (Deu); mg/m3-50 0 ppm MAK ronic effects, D mg/m3 ediments>1,52

Octane [and isomers]:	TWA/8h: 500 ppm MAK (Deu); 1420 mg/m3-300 ppm (VLA (Esp); 1450 mg/m3- 300 ppm WEL (GB). STEL/15min: 1000 mg/m3-400 ppm MAK (Deu) DNEL
	Cronic systemic effects, people, oral >699 mg/kg; inhalation >608 mg/m3; dermal > 699 mg/kg
	Cronic systemic effects, workers, dermal >773 mg/kg PNEC
	soft water: 0.00001 g/l; sea water: 0.00001 g/l; intermittent release (soft water): 0.00004 g/l; STP: 0.00016 g/l; sediment (soft water): 4 mg/kg; sediment (sea water): 4 mg/kg; soil: 1.6 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:	Glasses with side protection ("cage" glasses) (EN166).
Hand protection:	Neoprene or rubber gloves, suitable for chemical products (EN374).
Skin protection:	Use full protective clothing for chemicals (working-dress, apron). Protective shoes.
Respiratory protection:	Get shelter in the event of development of vapours/aerosols. Use special filter code A/P2.
Thermal hazards:	n. a.
Environmental exposure controls:	n. a.

SECTION 9: Physical and chemical properties

	nysical 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:	82 (2-propanol) °C	
(f) Flammability:	n.a.	
(g) Lower and upper explosion limit:	n.a.	
(h) Flash point:	-7 °C	
(i) Auto-ignition temperature:	n.a.	
(j) Decomposition temperature:	n.a.	
(k) pH:	n.a.	
(I) Kinematic viscosity:	n.a.	
(m) Solubility:	n.a.	
(n) Partition coefficient n- octanol/water (log value):		
(o) Vapour pressure:	n.a.	
(p) Density and/or relative density:	0.7 - 1.1 g/cm ³	
(q) Relative vapour density:	n.a.	
(r) Particle characteristics:	n.a.	
COV:	55 (Direttiva 2010/75/CE) %	
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Kinematic viscosity at 40°C: > 20.5 mm2/s 9.2. Other information: n. a. SECTION 10: Stability and reactivity No decomposition if correctly used. 10.1. Reactivity: There are no particular risks of reaction with other substances in normal conditions of use. 10.2. Chemical stability: The material is stable in normal use and stocking conditions. 10.3. Possibility of hazardous Keep away from oxidants and strong acids. reactions: 10.4. Conditions to avoid: Keep away from ignition source, heat, direct light. 10.5. Incompatible materials: n. a. 10.6. Hazardous decomposition Combustion can produce carbon oxides, toxic gases and fumes. products:

SECTION 11: Toxicological information

	In the absence of experimental toxicological data on the mixture, the potential health risks of the product have been evaluated considering the properties of the different composing substances. The concentration of each dangerous substance mentioned in section 3 is thus considered in assessing the toxicological effects resulting from exposure to the product.
acute toxicity:	Based on available data, classification criteria are not met
irritation:	Isobutyl-alcohol LD50/oral/rat > 2830 mg/kg LD50/dermal/rabbit > 2000 mg/kg LC50/inhalation/rat: about 24.6 mg/l (4h) Heptane [and isomers] LD50/oral/rat>5000 mg/kg bw LC50/inhalation/rat/4h > 73.5 mg/l LD50/dermal/rabbit > 2000 mg/kg bw Octane [and isomers] LD50/oral/rat> 5000 mg/kg bw LD50/dermal/rabbit > 2000 mg/kg bw LD50/dermal/rabbit > 2000 mg/kg bw LD50/oral/rat = 5840 mg/kg bw LD50/dermal/rabbit = 16.4 ml/kg bw LC50/inhalation/rat > 10000 ppm (6h) It causes serious eye damage. It causes skin irritation
corrosivity:	Isobutyl-alcohol It causes serious eye damage. It causes skin irritation. Irritating to respiratory system. Octane [and isomers] Skin irritation test on rabbit: irritating Eye irritation test on rabbit: not irritating 2-Propanol It causes serious eye irritation. Based on available data, classification criteria are not met
corrosivity:	Eye irritation test on rabbit: not irritating 2-Propanol It causes serious eye irritation.

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sensitisation:	Based on available data, classification criteria are not met.
	Heptane [and isomers]
	Guinea Pig Maximisation test (OECD 406): not sensitizing
	Octane [and isomers]
	OECD406 test on Guinea pig: not sensitising
repeated dose toxicity:	Isobutyl-alcohol
	Subacute oral toxicity
	NOAEL/oral/rat > 1450 mg/kg bw day
	Subacute inhalatory toxicity
	NOAEL/inhalation/rat \ge 7,5 mg/l
carcinogenicity:	2-Propanol
	NOAEC (carcinogenicity) : 5000 ppm (rat)
mutagenicity:	
toxicity for reproduction:	
	NOAEL (C): 480 mg/kg bw/day (rabbit)
Information on likely routes of exposure:	n. a.
Symptoms related to the	n. a.
physical, chemical and	
toxicological characteristics:	
Delayed and immediate effects as well as chronic effects from	n. a.
short and long-term exposure:	
Interactive effects:	n. a.
	The product does not contain substances having properties of interference with the
hazards:	endocrine system in a concentration> = 0.1%.

SECTION 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.

12.1. Toxicity:	Isobutyl-alcohol
	LC50/Pimephales promelas = 1430 mg/l (96h)
	EC50/Daphnia pulex = 1100 mg/l (48h)
	EC50/pseudokirchneriella subcapitata = 1799 mg/l (72h)
	Octane [and isomers]
	NOELR/Oncorhynchus mykiss/28 d = 0.579 mg/l
	EL50/Mytilus edulis/105 min = 0.12 mg/l
	EC50/Mytilus edilis/105 min = 24.6 mg/kg
	EL50/pseudokirchneriella subcapitata/72h = 2084 mg/l
	2-Propanol
	LC50 (Pimephales promelas) : 9640 mg/l (96h)
	EC50 (Daphnia magna): >10000 mg/l (24h)
	EC50 (Scenedesmus quadricauda) : 1800 mg/l (7d)
12.2. Persistence and	
degradability:	Biodegradation: 90% 14 d
	Heptane [and isomers]
	LL50/Oncorhynchus Mykiss/96 h = 5378 mg/l
	NOEL/Oncorhynchus Mykiss/28 d = 1284 mg/l
	EC50/Daphnia magna/48h = 1.5 mg/l
	EL50/Daphnia magna/48 h = 3.9 mg/l
	EL50/Daphnia magna/21d = 1.6 mg/l (OECD 211)
	EL50/Tetrahymena pyriformis/48h = 22.6 mg/l
	EL50/Pseudokirchneriella subcapitata/72h = 4.3 mg/l
	2-Propanol
	Easily biodegradable
	BOD = 53% (Regulation (EC) No 440/2008, Annex C.5)

12.3. Bioaccumulative potential:	lsobutyl-alcohol
	Partition coefficient: n-octanol/water = 1 Heptane [and isomers]
	Log Kow = 3,78
	BCF = 552 (calculated)
	2-Propanol
	Log Pow = 0.05
12.4. Mobility in soil:	
	Based on available data, the product does not contain any PBT or vPvB substances in quantity higher than 0.1%.
	The product does not contain substances having properties of interference with the endocrine system in a concentration $> = 0.1\%$.
12.7. Other adverse effects:	The product does not contain substances listed in Regulation (EC) 1005/2009 (substances that deplete the ozone layer)

SECTION 13: Disposal considerations

13.1. Waste treatment methods: Incineration or disposal in accordance with legal regulations.

SECTION 14: Transport information

	ce with ADR for road, RID for rail, IMDG for sea and ICAO for air transport. : 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			
	 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:	Heptane [and isomers], Octane [and isomers]			
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:	F-E S-D			
IMDG MFAG:	311			
Danger labels:	33 3 1210			



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:
 Restrictions related to the product or substances contained according to Annex XVII of Regulation (EC) 1907/2006 (REACH) and subsequent amendments: Restrictions related to the product: 3, 40, 75

Directive 2012/18/EU: P5c, E1

WGK = 2

15.2. Chemical safety Not applicable assessment:

SECTION 16: Other information

Classification and procedure used:

H225	calculation method
H318	calculation method
H315	calculation method
H336	calculation method
H400	calculation method
H410	calculation method
	H318 H315 H336 H400

Modified sections: 2,11,12,15,16

STIR ACCURATELY BEFORE USE

Full text of H phrases listed in Section 3:

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H410 Very toxic to aquatic life with long lasting effects.

Glossary / List of acronyms

(STOT) RE - Repeated Exposure

- (STOT) SE Single Exposure
- ADR European Agreement concerning the International Carriage of Dangerous Goods by Road
- $\mathsf{CLP}\ \mathsf{-}\ \mathsf{Classification}\ \mathsf{Labelling}\ \mathsf{Packaging}\ \mathsf{Regulation};\ \mathsf{Regulation}\ (\mathsf{EC})\ \mathsf{No}\ 1272/2008$
- 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

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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.