SAFETY DATA SHEET

PRODUCT:	**CP011**	**ISSUE : 1**
DATE OF ISSUE:	**25 MARCH 2015**	**PAGE: 1 OF 9**

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

1.1 Product identifier

Product name: BLACK MARKING INK
Product code: CP011

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

Use of substance / mixture: PC18: Ink and toners.

1.3 Details of the supplier of the safety data sheet

Company name: FOENIX CODING LTD
Hilltop Farm – The Barns
Lyne lane, Lyne
Chertsey
KT16 0AW – Surrey – UK

Tel: +44 (0) 1932 701 449

Email: sales@foenixcoding.com

1.4 Emergency telephone number

Emergency tel: +44 (0) 1932 355191

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification under CHIP: F: R11; Xi: R36; -: R52/53
Classification under CLP: Eye Dam. 1: H318; Aquatic Chronic 3: H412; Flam. Liq. 2: H225
Most important adverse effects: Highly flammable. Irritating to eyes. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

Label elements under CLP:

Hazard statements: H225: Highly flammable liquid and vapour.
H318: Causes serious eye damage.
H412: Harmful to aquatic life with long lasting effects.

Signal words: Danger

Hazard pictograms: GHS02: Flame
GHS05: Corrosion

Precautionary statements:

P243: Take precautionary measures against static discharge.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P303+361+353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTRE or doctor.
P370+378: In case of fire: Use water mist, foam, carbon dioxide or dry powder for extinction.

Label elements under CHIP:

Hazard symbols:

Highly flammable.
Irritant.

Risk phrases:

R11: Highly flammable.
R36: Irritating to eyes.
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.3 Other hazards

Other hazards: In use, may form flammable / explosive vapour-air mixture.

PBT: This product is not identified as a PBT/vPvB substance.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous Ingredients:

ETHANOL

EINECS	CAS	CHIP Classification	CLP Classification	Percent
200-578-6	64-17-5	F: R11 Substance with a Community workplace exposure limit.	Flam. Liq. 2: H225	70-90%

1-METHOXY-2-PROPANOL

203-539-1	107-98-2	-: R10; -: R67 Substance with a Community workplace exposure limit.	Flam. Liq. 3: H226; STOT SE 3: H336	1-10%

PROPAN-1-OL

200-746-9	71-23-8	F: R11; Xi: R41; -: R67	Flam. Liq. 2: H225; Eye Dam. 1: H318; STOT SE 3: H336	1-10%

BASIC VIOLET 10

-	81-88-9	Xn: R20/21/22; Xi: R41; -: R52/53	Acute Tox. 4: H302; Aquatic Chronic 3: H412; Acute Tox. 4: H332; Eye Dam. 1: H318	1-10%

BASIC YELLOW 37

-	6358-30-37	Xi: R41; N: R51/53	Aquatic Chronic 2: H411; Eye Dam. 1: H318	1-10%

BASIC BLUE 26

-	2580-56-5	Xn: R22; Xi: R36; N: R50/53	Aquatic Chronic 1: H410; Eye Irrit. 2: H319; Acute Tox. 4: H302	1-10%

SECTION 4: First aid measures

4.1 Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed/immediate effects: Immediate effects can be expected after short-term exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate/special treatment: Eye bathing equipment should be available on the premises.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2 Special hazards arising from the substance or mixture

Exposure Hazards: In combustion emits toxic fumes.

5.3 Advice for firefighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2 Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3 Methods and materials for containment and cleaning up:

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4 Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

7.2 Conditions for safe storage, including any incompatibilities:

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. The floor of the storage room must be impermeable to prevent the escape of liquids.

Suitable packaging: Polyethylene. Coated steel. Glass.

7.3 Specific end use(s)

Specific end use(s): No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Hazardous ingredients:

ETHANOL

Workplace exposure limits: **Respirable dust**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	1920 mg/m3	-	-	-

1-METHOXY-2-PROPANOL

UK	375 mg/m3	560 mg/m3	-	-

PROPAN-1-OL

UK	500 mg/m3	625 mg/m3	-	-

BASIC VIOLET 10

EU	-	-	No Data	-

BASIC BLUE 26

UK	-	-	not known	Not Known

DNEL/PNEC Values

CP011 BLACK MARKING INK

Type	Exposure	Value	Population	Effect
DNEL	-	-	-	-

8.2 Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area. The floor of the storage room must be impermeable to prevent the escape of liquids..

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Protective gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Environmental: Prevent from entering in public sewers or the immediate environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State:	Liquid
Colour:	Black
Odour:	Alcoholic
Evaporation rate:	Fast
Oxidising:	Not applicable
Solubility in water:	Miscible
Also soluble in:	Most organic solvents.
Viscosity:	Non-viscous
Kinematic viscosity:	15-18 secs
Viscosity test method:	Flow time in seconds in a 3 mm ISO cup (ISO 2431)
Boiling point/range°C:	>35
Melting point/range°C:	Not applicable.
Flammability limits %:	**lower:** 3.3 **upper:** 19
Flash point°C:	<21
Part.coeff. n-octanol/water:	No data available.
Autoflammability°C:	365
Vapour pressure:	30mm Hg 20
Relative density:	0.84
pH:	7
VOC g/l:	670

9.2 Other information

Other information: No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2 Chemical stability

Chemical stability: Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4 Conditions to avoid

Conditions to avoid: Heat.

10.5 Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6 Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Hazardous ingredients:

ETHANOL

IVN	RAT	LD50	1440	mg/kg
ORL	MUS	LD50	3450	mg/kg
ORL	RAT	LD50	7060	mg/kg

1-METHOXY-2-PROPANOL

IVN	RAT	LD50	4200	mg/kg
ORL	MUS	LD50	11700	mg/kg
ORL	RAT	LDLO	3739	mg/kg

PROPAN-1-OL

IVN	RAT	LD50	590	mg/kg
ORL	MUS	LD50	6800	mg/kg
ORL	RAT	LD50	1870	mg/kg

BASIC VIOLET 10

ORAL	MUS	LD50	887	mg/kg
ORAL	RAT	LD50	500	mg/kg

BASIC YELLOW 37

ORAL	RAT	LD50	<2000	mg/kg

BASIC BLUE 26

ORAL	RAT	LD50	900	mg/kg

Relevant effects for mixture:

Effect	Route	Basis
Irritation	OPT	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

SECTION 12: Ecological information

12.1 Toxicity

Hazardous ingredients:

BASIC VIOLET 10

BLUEGILL (Lepomis macrochirus)	96H LC50	379	mg/l
Daphnia magna	48H EC50	22.9	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	217	mg/l
SHEEPSHEAD MINNOWS (Cyprintodon variegat	96H LC50	83.9	mg/l

BASIC YELLOW 37

Golden Orfe	96H LC50	1-10	mg/l

BASIC BLUE 26

RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	<50	mg/l

12.2 Persistence and degradability

Persistence and degradability: Not biodegradable.

12.3 Bioaccumulative potential

Bioaccumulative potential: Bioaccumulation potential.

12.4 Mobility in soil

Mobility: Readily absorbed into soil.

12.5 Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6 Other adverse effects

Other adverse effects: Toxic to aquatic organisms. Toxic to soil organisms.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Recovery operations: Solvent reclamation/regeneration.

Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14: Transport information

14.1 UN number
UN number: UN1210

14.2 UN proper shipping name
Shipping name: Printing ink

14.3 Transport hazard class(es)
Transport class: 3 (Irritant)

14.4 Packing group
Packing group: II

14.5 Environmental hazards
Environmentally hazardous: No **Marine pollutant:** No

14.6 Special precautions for user
Special precautions: No special precautions.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Specific regulations: Not applicable.

15.2 Chemical Safety Assessment

SECTION 16: Other information

Other information
Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.
* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3:
H225: Highly flammable liquid and vapour.
H226: Flammable liquid and vapour.
H302: Harmful if swallowed.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H336: May cause drowsiness or dizziness.
H410: Very toxic to aquatic life with long lasting effects.
H411: Toxic to aquatic life with long lasting effects.
H412: Harmful to aquatic life with long lasting effects.
R10: Flammable.
R11: Highly flammable.
R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
R22: Harmful if swallowed.
R36: Irritating to eyes.
R41: Risk of serious damage to eyes.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67: Vapours may cause drowsiness and dizziness.

Legend to abbreviations:

PNEC = predicted no effect concentration
DNEL = derived no effect level
LD50 = median lethal dose
LC50 = median lethal concentration
EC50 = median effective concentration
IC50 = median inhibitory concentration
dw = dry weight
bw = body weight
cc = closed cup
oc = open cup
MUS = mouse
GPG = guinea pig
RBT = rabbit
HAM = hamster
HMN = human
MAM = mammal
PGN = pigeon
IVN = intravenous
SCU = subcutaneous
SKN = skin
DRM = dermal
OCC = ocular/corneal
OPT = optical
INH = inhalation
PCP = phycico-chemical properties

Legal disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.