



SAFETY DATA SHEET

PRODUCT: FX8201 Solvent Black Ink FOENIX CODING
DATE OF ISSUE: 25 June 2019 ISSUE : 1.1

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

1.1 Product identifier

Product code FX8201
Product name FX8201 Solvent Black Ink
Product category Ink Product

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

Recommended use Printing operations

1.3 Details of the supplier of the safety data sheet

Foenix Coding Limited
Hilltop Farm – The Barns
Lyne lane, Lyne
Chertsey
KT16 0AW – Surrey - UK

For further information, please contact

Contact person +44 (0) 1932 701 449

E-mail address

sales@foenixcoding.com

1.4 Emergency telephone number

+44 (0) 1932 701 449

Section 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to Regulation (EC) No 1272/2008

Table with 2 columns: Hazard description and Classification. Rows include: Serious eye damage/eye irritation (Category 1 - (H318)), Specific target organ toxicity (single exposure) (Category 3 - (H335)), Chronic aquatic toxicity (Category 3 - (H412)), Flammable liquids (Category 3 - (H226)).

2.2 Label elements



**PRODUCT:**

**FX8201 Solvent Black Ink**

**FOENIX CODING**

**DATE OF ISSUE:**

**25 June 2019**

**ISSUE : 1.1**

**Signal Word**

Danger

**Hazard Statements**

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

**Precautionary Statements**

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed  
P273 - Avoid release to the environment  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P235 - Keep cool  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

**2.3 Other Hazards**

**General Hazards**

No information available

**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.2 Mixtures**

Component	EC No.	CAS-No	Weight %	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH No.	Note
Ethyl (S)-2-hydroxypropionate	211-694-1	687-47-8	60 - 100	Eye Dam. 1 (H318) STOT SE 3 (H335) Flam. Liq. 3 (H226)	01-2119516234-49-xxxx	1
Chromate(1-), bis[1-[[5-(1,1-dimethylpropyl)-2-(hydroxy-.kappa.O)-3-nitrophenyl]azo-.kappa.N1]-2-naphthalenolato(2-)-.kappa.O]-, sodium	260-617-8	57206-83-4	1 - 5	Aquatic Chronic 2 (H411)	No data available	
Chromate(1-), bis[1-[[2-(hydroxy-.kappa.O)-5-nitrophenyl]azo-.kappa.N1]-2-naphthalenolato(2-)-.kappa.O]-, sodium	260-616-2	57206-81-2	1 - 5	Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412)	01-2120057101-73-xxxx	
Chromate(1-), bis[1-[[2-(hydroxy-.kappa.O)-4-nitrophenyl]azo-.kappa.N1]-2-naphthalenolato(2-)-.kappa.O]-, sodium	264-966-7	64611-73-0	1 - 5	Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412)	01-2120081399-44-xxxx	
Chromate(1-), [1-[[2-(hydroxy-.kappa.O)-4-nitrophenyl]azo-.kappa.N1]-2-naphthalenolato(2-)-.kappa.O][1-[[2-(hydroxy-.kappa.O)-5-nitrophenyl]azo-.kappa.N1]-2-naphthalenolato(2-)-.kappa.O]-, sodium	261-691-4	59307-49-2	1 - 5	Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412)	No data available	

**Note**

REACH No: Registration number(s) may not be provided because substance(s) are exempted or not yet required to be registered under REACH  
1. Substance with a Community workplace exposure limit

**Full text of H- and EUH-phrases: see section 16**

PRODUCT:

FX8201 Solvent Black Ink

FOENIX CODING

DATE OF ISSUE:

25 June 2019

ISSUE : 1.1

## Section 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

<b>General Advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Eye Contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention if irritation develops and persists.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation (redness, rash, blistering) develops, get medical attention.
<b>Inhalation</b>	Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately.
<b>Ingestion</b>	Do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

### 4.2 Most important symptoms and effects, both acute and delayed

None under normal use conditions.

### 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to Physician** Treat symptomatically.

## Section 5: FIRE FIGHTING MEASURES

### 5.1 Extinguishing media

#### **Suitable Extinguishing Media**

Foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Unsuitable Extinguishing Media**

No information available.

### 5.2 Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. May emit toxic fumes under fire conditions.

### 5.3 Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers / tanks with water spray. Sealed containers may rupture when heated.

## Section 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Ventilate the area. Avoid contact with eyes, skin and clothing. Avoid breathing dust or vapor. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

### 6.2 Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches and waterways. Local authorities should be advised if significant spillages cannot be contained.

### 6.3 Methods and material for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Use clean non-sparking tools to collect absorbed material.

### 6.4 Reference to other sections

See Section 12 for more information.

PRODUCT:

FX8201 Solvent Black Ink

FOENIX CODING

DATE OF ISSUE:

25 June 2019

ISSUE : 1.1

## Section 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Ensure adequate ventilation.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep container closed when not in use. Keep out of the reach of children.

### 7.3 Specific end use(s)

**Exposure scenario** No information available.

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Exposure limits

Component	Finland
Ethyl (S)-2-hydroxypropionate 687-47-8	TWA: 5 ppm TWA: 25 mg/m <sup>3</sup> STEL: 10 ppm STEL: 49 mg/m <sup>3</sup>

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

### 8.2 Exposure controls

#### Engineering Measures

Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. Users are advised to consider national Occupational Exposure Limits or other equivalent values. In case of insufficient ventilation, wear suitable respiratory equipment.

#### Personal protective equipment

##### Eye/Face Protection

Wear safety glasses with side shields (or goggles). If splashes are likely to occur: Wear suitable face shield. Ensure that eyewash stations and safety showers are close to the workstation location.

##### Skin Protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

##### Hand Protection

Chemical resistant protective gloves.  
Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding >480 minutes of permeation time): eg. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other  
Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers. Taking into account the varying conditions, the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.  
Due to different glove types, the manufacturer's directions for use should be observed.

**PRODUCT:** FX8201 Solvent Black Ink **FOENIX CODING**  
**DATE OF ISSUE:** 25 June 2019 **ISSUE :** 1.1

Replace gloves immediately when torn or any change in appearance is noticed such as dimension, color, flexibility.

**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice. Wash hands before eating, drinking or smoking. Wash contaminated clothing before reuse. Avoid contact with eyes, skin and clothing. Wear suitable gloves and eye/face protection. Regular cleaning of equipment, work area and clothing is recommended.

**Environmental exposure controls** No information available.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

<b>Physical State</b>	Liquid	<b>Appearance</b>	Colored
<b>Odor</b>	No information available	<b>Odor Threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH		No data available
Melting Point / Freezing Point		No data available
Boiling Point / Boiling Range	> 149 °C / 300 °F	
Flash Point	56 °C / 133 °F	Pensky Martens Closed Cup (PMCC) (Minimum)
Evaporation rate		No data available
Flammability Limit in Air		
Upper flammability limit		No data available
Lower flammability limit		No data available
Vapor Pressure		No data available
Vapor Density		No data available
Specific Gravity	1.03	
Water Solubility		No data available
Solubility in other solvents		No data available
Partition coefficient: n-octanol/water		No data available
Autoignition Temperature		No data available
Decomposition temperature		No data available
Kinematic viscosity		No data available
Dynamic viscosity		No data available
Explosive Properties	No data available	
Oxidizing Properties	No data available	

**9.2 Other information**

**Softening Point** No data available

**Section 10: STABILITY AND REACTIVITY**

**10.1 Reactivity**  
No information available.

**10.2 Chemical Stability**  
Stable under normal conditions.

PRODUCT:

FX8201 Solvent Black Ink

FOENIX CODING

DATE OF ISSUE:

25 June 2019

ISSUE : 1.1

**10.3 Possibility of Hazardous Reactions**

None under normal processing.

**10.4 Conditions to avoid**

Keep away from open flames, hot surfaces and sources of ignition.

**10.5 Incompatible materials**

Strong acids. Strong bases. Strong oxidizing agents. Reducing agent.

**10.6 Hazardous decomposition products**

Thermal decomposition can lead to release of irritating gases and vapors. Carbon dioxide (CO2). Carbon monoxide.

**Section 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

**Acute Toxicity**

<b>Inhalation</b>	Specific test data for the substance or mixture is not available.
<b>Eye Contact</b>	Specific test data for the substance or mixture is not available.
<b>Skin Contact</b>	Specific test data for the substance or mixture is not available.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available.

**Unknown Acute Toxicity** 0 % of the mixture consists of ingredient(s) of unknown toxicity.

**Unknown Acute Toxicity**

- 0 % of the mixture consists of ingredient(s) of unknown toxicity.
- 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
- 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Component	Oral LD50
Ethyl (S)-2-hydroxypropionate 687-47-8	> 2000 mg/kg ( Rat )

Component	Inhalation LC50
Ethyl (S)-2-hydroxypropionate 687-47-8	> 5.4 mg/L ( Rat ) 4 h

<b>Skin corrosion/irritation</b>	Specific test data for the substance or mixture is not available.
<b>Eye damage/irritation</b>	Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components).
<b>Sensitization</b>	Specific test data for the substance or mixture is not available.
<b>Mutagenic Effects</b>	Specific test data for the substance or mixture is not available.
<b>Carcinogenic effects</b>	Specific test data for the substance or mixture is not available.
<b>Reproductive Effects</b>	Specific test data for the substance or mixture is not available.

**STOT - single exposure** Specific test data for the substance or mixture is not available. May cause respiratory

PRODUCT: FX8201 Solvent Black Ink FOENIX CODING  
 DATE OF ISSUE: 25 June 2019 ISSUE : 1.1

STOT - repeated exposure irritation. (based on components).  
 Aspiration hazard Specific test data for the substance or mixture is not available.  
 Specific test data for the substance or mixture is not available.

**Section 12: ECOLOGICAL INFORMATION**

**12.1 Toxicity**

Specific test data for the substance or mixture is not available. Harmful to aquatic life with long lasting effects. (based on components).

**Unknown Aquatic Toxicity**

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Component	Fish
Ethyl (S)-2-hydroxypropionate 687-47-8	96h LC50 Brachydanio rerio: = 320 mg/L (semi-static)

Component	Crustacea
Ethyl (S)-2-hydroxypropionate 687-47-8	48h EC50 Daphnia magna: = 683 mg/L

**12.2 Persistence and degradability**

No information available.

**12.3 Bioaccumulative potential**

No information available.

Component	Partition coefficient
Ethyl (S)-2-hydroxypropionate 687-47-8	0.06

**12.4 Mobility in soil**

No information available.

**12.5 Results of PBT and vPvB assessment**

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

**12.6 Other adverse effects.**

No information available.

**Section 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

**Waste from residues/unused products** Contain and dispose of waste according to local regulations.

**Contaminated Packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

PRODUCT:

FX8201 Solvent Black Ink

FOENIX CODING

DATE OF ISSUE:

25 June 2019

ISSUE : 1.1

## Section 14: TRANSPORT INFORMATION

**Note:**

This information is not intended to convey all specific transportation requirements relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation information can be found in the specific regulations for your mode of transportation. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

### ADR

14.1 UN/ID no.	UN1210
14.2 Proper Shipping Name	Printing Ink
14.3 Hazard Class	3
14.4 Packing Group	III

### ICAO / IATA / IMDG / IMO

14.1 UN/ID no.	UN1210
14.2 Proper Shipping Name	Printing Ink
14.3 Hazard Class	3
14.4 Packing Group	III

## Section 15: REGULATORY INFORMATION

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

#### *European Union*

#### International Inventories

For further information, please contact: Supplier (manufacturer/importer/downstream user/distributor)

### 15.2 Chemical Safety Assessment

No information available.

## Section 16: OTHER INFORMATION

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### **Full text of H-Statements referred to under sections 2 and 3**

H226 - Flammable liquid and vapor  
H318 - Causes serious eye damage  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation  
H411 - Toxic to aquatic life with long lasting effects  
H412 - Harmful to aquatic life with long lasting effects

#### **Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)
STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value



**PRODUCT:** FX8201 Solvent Black Ink

**FOENIX CODING**

**DATE OF ISSUE:** 25 June 2019

**ISSUE :** 1.1

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This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

**Disclaimer**

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

**End of Safety Data Sheet**