



SAFETY DATA SHEET

PRODUCT: FX8208-9 Solvent Based Cleaner **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 FX8208-9
Product name FX8208-9 Solvent Based Cleaner
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

Serious eye damage/eye irritation	Category 1 - (H318)
Specific target organ toxicity (single exposure)	Category 3 - (H335)

2.2 Label elements



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Signal Word
 Danger

Hazard Statements
 H318 - Causes serious eye damage
 H335 - May cause respiratory irritation

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
 P280 - Wear protective gloves/protective clothing/eye protection/face protection

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	30 - 60	Eye Dam. 1 (H318) STOT SE 3 (H335) Flam. Liq. 3 (H226)	01-2119516234-49-xxxx	1
Diethylene glycol monobutyl ether	203-961-6	112-34-5	30 - 60	Eye Irrit. 2 (H319)	01-2119475104-44-xxxx	1

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

Section 4: FIRST AID MEASURES

4.1 Description of first aid measures

General Advice Show this safety data sheet to the doctor in attendance.
Eye Contact 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.
Skin Contact 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.
Inhalation Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately.
Ingestion 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.

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Section 5: FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media

Foam. Carbon dioxide (CO₂). 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.

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.

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Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure limits

Component	European Union
Diethylene glycol monobutyl ether 112-34-5	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³
Component	The United Kingdom
Diethylene glycol monobutyl ether 112-34-5	STEL: 15 ppm STEL: 101.2 mg/m ³ TWA: 10 ppm TWA: 67.5 mg/m ³
Component	France
Diethylene glycol monobutyl ether 112-34-5	TWA/VME: 10 ppm indicative limit TWA/VME: 67.5 mg/m ³ indicative limit STEL/VLCT: 15 ppm indicative limit STEL/VLCT: 101.2 mg/m ³ indicative limit
Component	Germany
Diethylene glycol monobutyl ether 112-34-5	TWA/MAK: 67 mg/m ³ TWA/MAK: 10 ppm TWA/AGW: 10 ppm TWA/AGW: 67 mg/m ³ Peak: 15 ppm Peak: 100.5 mg/m ³
Component	Spain
Diethylene glycol monobutyl ether 112-34-5	TWA/VLA-ED: 10 ppm TWA/VLA-ED: 67.5 mg/m ³ STEL/VLA-EC: 15 ppm STEL/VLA-EC: 101.2 mg/m ³
Component	Italy
Diethylene glycol monobutyl ether 112-34-5	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³
Component	Portugal
Diethylene glycol monobutyl ether 112-34-5	TWA/VLE-MP: 10 ppm TWA/VLE-MP: 67.5 mg/m ³ STEL/VLE-CD: 15 ppm STEL/VLE-CD: 101.2 mg/m ³
Component	The Netherlands
Diethylene glycol monobutyl ether 112-34-5	TWA: 50 mg/m ³ STEL: 100 mg/m ³ Skin
Component	Finland
Ethyl (S)-2-hydroxypropionate 687-47-8	TWA: 5 ppm TWA: 25 mg/m ³ STEL: 10 ppm STEL: 49 mg/m ³
Diethylene glycol monobutyl ether 112-34-5	TWA: 10 ppm TWA: 68 mg/m ³
Component	Denmark
Diethylene glycol monobutyl ether 112-34-5	TWA: 10 ppm TWA: 68 mg/m ³
Component	Austria
Diethylene glycol monobutyl ether 112-34-5	STEL/KZW: 15 ppm STEL/KZW: 101.2 mg/m ³ TWA/TMW: 10 ppm TWA/TMW: 67.5 mg/m ³
Component	Switzerland

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Diethylene glycol monobutyl ether 112-34-5	TWA/MAK: 10 ppm aerosol, vapour TWA/MAK: 67 mg/m ³ aerosol, vapour STEL/KZW: 15 ppm aerosol, vapour STEL/KZW: 101 mg/m ³ aerosol, vapour
Component	Poland
Diethylene glycol monobutyl ether 112-34-5	TWA/NDS: 67 mg/m ³ STEL/NDSch : 100 mg/m ³
Component	Norway
Diethylene glycol monobutyl ether 112-34-5	TWA: 10 ppm TWA: 68 mg/m ³
Component	Ireland
Diethylene glycol monobutyl ether 112-34-5	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³

Derived No Effect Level (DNEL)

Component	DNEL - Dermal (Workers)	DNEL - Inhalation (Workers)
Diethylene glycol monobutyl ether 112-34-5	83 mg/kg (Systemic long term)	67.5 mg/m ³ (Systemic long term) 67.5 mg/m ³ (Local long term) 101.2 mg/m ³ (Local acute/short term)

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. 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.

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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

Physical State	Liquid	Appearance	Water-white
Odor	No information available	Odor Threshold	No information available
Property	Values	Remarks • Method	
pH		No data available	
Melting Point / Freezing Point		No data available	
Boiling Point / Boiling Range	> 149 °C / 300 °F		
Flash Point	64 °C / 147 °F		Pensky Martens Closed Cup (PMCC)
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	0.99		
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.

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

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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

Inhalation	Specific test data for the substance or mixture is not available.
Eye Contact	Specific test data for the substance or mixture is not available.
Skin Contact	Specific test data for the substance or mixture is not available.
Ingestion	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)
Diethylene glycol monobutyl ether 112-34-5	= 5660 mg/kg (Rat)

Component	Dermal LD50
Diethylene glycol monobutyl ether 112-34-5	= 2700 mg/kg (Rabbit)

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

Skin corrosion/irritation	Specific test data for the substance or mixture is not available.
Eye damage/irritation	Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components).
Sensitization	Specific test data for the substance or mixture is not available.
Mutagenic Effects	Specific test data for the substance or mixture is not available.
Carcinogenic effects	Specific test data for the substance or mixture is not available.
Reproductive Effects	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 irritation. (based on components).
STOT - repeated exposure	Specific test data for the substance or mixture is not available.
Aspiration hazard	Specific test data for the substance or mixture is not available.

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Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Specific test data for the substance or mixture is not available.

Unknown Aquatic Toxicity

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

Component	Algae/aquatic plants
Diethylene glycol monobutyl ether 112-34-5	96h EC50 <i>Desmodesmus subspicatus</i> : > 100 mg/L

Component	Fish
Ethyl (S)-2-hydroxypropionate 687-47-8	96h LC50 <i>Brachydanio rerio</i> : = 320 mg/L (semi-static)
Diethylene glycol monobutyl ether 112-34-5	96h LC50 <i>Lepomis macrochirus</i> : = 1300 mg/L (static)

Component	Crustacea
Ethyl (S)-2-hydroxypropionate 687-47-8	48h EC50 <i>Daphnia magna</i> : = 683 mg/L
Diethylene glycol monobutyl ether 112-34-5	48h EC50 <i>Daphnia magna</i> : > 100 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.

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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
14.2 **Proper Shipping Name** Not Regulated
Printing Ink Related Material

ICAO / IATA / IMDG / IMO
14.2 **Proper Shipping Name** Not Regulated
Printing Ink Related Material

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

Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Revision Date Jun-25-2019

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

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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