

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Syntec FF1 Liquid BLU
Revision date : 24.06.2025
Print date : 28.07.2025

Version : 1.0.0

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

1.1 Product identifier

Syntec FF1 Liquid BLU
Unique Formula Identifier (UFI) : 1JU0-K038-K00X-7Q5X

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

Relevant identified uses

Plating agent

1.3 Details of the supplier of the safety data sheet

Supplier

HOLMENKOL GmbH

Street : Monrepos 7

Postal code/City : 71634 Ludwigsburg

Country : Deutschland

Telephone : +49 7141 3894 0

Telefax : +49 7141 3894 100

Information contact : info@eimermacher.de
www.eimermacher.de

1.4 Emergency telephone number

siehe Telefonnummer des Herstellers (während normaler Geschäftszeiten) oder:

Tox Info Suisse: 145 (24-h-Notrufnummer)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Flam. Liq. 2 ; H225 - Flammable liquids : Category 2 ; Highly flammable liquid and vapour.

STOT SE 3 ; H336 - STOT-single exposure : Category 3 ; May cause drowsiness or dizziness.

Aquatic Chronic 3 ; H412 - Hazardous to the aquatic environment : Chronic 3 ; Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Flame (GHS02) · Exclamation mark (GHS07)

Signal word

Danger

Hazard components for labelling

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2 % aromatics

Hazard statements

H225 Highly flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

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Precautionary statements

P102 Keep out of the reach of children.
P101 If medical advice is needed, have product container or label at hand.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P271 Use only outdoors or in a well-ventilated area.
P405 Store locked up.
P501 Dispose of contents/container to hazardous or special waste collection point

2.3 Other hazards

Adverse human health effects and symptoms

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Adverse environmental effects

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2 % aromatics ; REACH No. : 01-2119471843-XXXX ; EC No. : 927-241-2

Weight fraction : $\geq 85 - < 90$ %
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT SE 3 ; H336 Aquatic Chronic 3 ; H412 EUH066

Hydrocarbons, C8-C9, isoalkanes ; REACH No. : 01-2119548335-31 ; EC No. : 932-020-9 ; CAS No. : 246538-71-6

Weight fraction : $\geq 2,5 - < 5$ %
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Acute Tox. 3 ; H331 Asp. Tox. 1 ; H304 Aquatic Chronic 2 ; H411

Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

Following inhalation

Provide fresh air. If unconscious but breathing normally, place in recovery position and seek medical advice.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap.

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Following ingestion

If swallowed, immediately drink: Water
Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Headache , Nausea , Dizziness

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Symptoms

Important or further important known symptoms and effects are described in the GHS labelling of the product (see section 2) and in section 11 (Toxicological information). (Further) symptoms and/or effects are not yet known.
In our experience, no special hazards are to be expected if the product is handled properly and is used as intended.

4.3 Indication of any immediate medical attention and special treatment needed

treatment: Symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂) , Extinguishing powder , Water mist , alcohol resistant foam
Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

Full water jet Strong water jet

5.2 Special hazards arising from the substance or mixture

Thermal decomposition can lead to the escape of irritating gases and vapours.

5.3 Advice for firefighters

Special protective equipment for firefighters

Full protection suit , Use suitable breathing apparatus.

5.4 Additional information

Use water spray jet to protect personnel and to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. See protective measures under point 7 and 8. Special danger of slipping by leaking/spilling product.

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4 Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handle and open container with care. Use only in well-ventilated areas.
Avoid: generation/formation of aerosols

Protective measures

Measures to prevent fire

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Always close containers tightly after the removal of product.

Specific requirements or handling rules

Take precautionary measures against static discharges.

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7.2 Conditions for safe storage, including any incompatibilities

Avoid: UV-radiation/sunlight

Do not expose to temperatures above 50 °C. Keep container tightly closed and in a well-ventilated place.

Requirements for storage rooms and vessels

Floors should be impervious, resistant to liquids and easy to clean. Ensure adequate ventilation of the storage area.
Keep/Store only in original container. Keep container tightly closed.

7.3 Specific end use(s)

Observe instructions for use. see section 1.2

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

DNEL-/PNEC-values

DNEL/DMEL

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2 % aromatics

Limit value type : DNEL/DMEL (Consumer)

Exposure route : Dermal

Exposure frequency : Long-term

Limit value : > 5000 mg/kg

Limit value type : DNEL/DMEL (Consumer)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : > 4951 mg/kg

Limit value type : DNEL/DMEL (Industrial)

Exposure route : Dermal

Exposure frequency : Long-term

Limit value : > 5000 mg/kg

Limit value type : DNEL/DMEL (Industrial)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : > 49510 mg/kg

8.2 Exposure controls

Personal protection equipment

Use personal protection equipment.

Eye/face protection



Eye glasses with side protection EN 166

Skin protection

Hand protection



By short-term hand contact : Suitable gloves type Disposable gloves. NBR (Nitrile rubber)

By long-term hand contact : Check leak tightness/impermeability prior to use.

Suitable material CR (polychloroprene, chloroprene rubber) Butyl caoutchouc (butyl rubber)

Breakthrough time 480 min

Thickness of the glove material 5 mm

Remark : When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. EN ISO 374

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Body protection

Wear anti-static footwear and clothing
Protective clothing. EN 13034 Natural fibres (e.g. cotton) , heat-resistant synthetic fibres
Chemical resistant safety shoes DIN EN 13832-2

Respiratory protection

Usually no personal respiratory protection necessary.

General information

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : emulsion

Colour : blue

Odour : characteristic

Safety characteristics

Physical state :		Liquid	
Melting point/freezing point :			°C
Initial boiling point and boiling range :	(1013 hPa)	>	100 °C
Decomposition temperature :			not determined
Flash point :			21,7 °C
Auto-ignition temperature :			not applicable
Lower explosion limit :			not applicable
Upper explosion limit :			not applicable
Vapour pressure :	(50 °C)		not applicable
Density :	(20 °C)		0,76 - 0,766 g/cm ³
Water solubility :	(20 °C)		not determined
Fat solubility :	(20 °C)		Not determined.
pH :			not applicable
log P O/W :			not determined
Flow time :	(20 °C)		not applicable
Viscosity :	(20 °C)		1300 mPa*s
Cinematic viscosity :	(40 °C)	>>	21 mm ² /s
Odour threshold :			not determined
Relative vapour density :	(20 °C)		not determined
Vapourisation rate :			not determined
Maximum VOC content (EC) :			89,1 Weight-%
Maximum VOC content (Switzerland) :			89,1 Weight-%
Flammable solids :			Not applicable.
Flammable gases :			Not applicable.
Oxidising liquids :			Not relevant.
Explosive properties :			Not applicable.
Corrosive to metals :			Not relevant.

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2 Chemical stability

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The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

See section 7 of the safety data sheet.

10.5 Incompatible materials

Oxidising agent, strong.

10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Based on available data, the classification criteria are not met.

Corrosion

Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting potential:

The product does not contain any substance above the legal limits that is included in the list established under Article 59(1) of Regulation (EC) No 1907/2006 on the basis of endocrine disrupting properties or that has endocrine disrupting or endocrine damaging properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

Other indications of toxicity

The product has not been tested. The statements on toxicology were derived from the properties of the individual components.

SECTION 12: Ecological information

12.1 Toxicity

The product has not been tested. The statement is derived from the properties of the single components.

Aquatic toxicity

Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

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Technically correct releases of minimal concentrations to adapted biological sewage plants, will not disturb the biodegradability of activated sludge.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

This product does not contain components in concentrations of 0.1% or higher which are classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

The product does not contain any substance above the legal limits that is included in the list established under Article 59(1) of Regulation (EC) No 1907/2006 on the basis of endocrine disrupting properties or that has endocrine disrupting or endocrine damaging properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7 Other adverse effects

The product does not contain any substances listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

12.8 Additional ecotoxicological information

Additional information

Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose according to legislation. (CH: Verordnung über den Verkehr mit Abfällen (VeVA), Verordnung über die Vermeidung und die Entsorgung von Abfällen (VVEA)) The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

13.2 Additional information

Dispose of contents / partially emptied container to hazardous waste. Dispose of empty container to municipal waste after proper use of the product.

SECTION 14: Transport information

14.1 UN number or ID number

UN 3295

14.2 UN proper shipping name

Land transport (ADR/RID)

HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2 % aromatics)

Sea transport (IMDG)

HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2 % aromatics)

Air transport (ICAO-TI / IATA-DGR)

HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2 % aromatics)

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 3
Classification code : F1
Hazard identification number (Kemler No.) : 33
Tunnel restriction code : D/E
Special Provisions : LQ 1 | · E 2 · ADR : III (<= 450 l)
Hazard label(s) : 3

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Sea transport (IMDG)

Class(es) : 3
EmS-No. : F-E / S-D
Special Provisions : LQ 1 | · E 2 · IMDG 2.3.2.2 (Packing group III <= 450 l)
Hazard label(s) : 3

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 3
Special Provisions : E 2 · IATA 3.3.3.1 (Packing group III <= 30 l)
Hazard label(s) : 3

14.4 Packing group

II

14.5 Environmental hazards

Land transport (ADR/RID) : No
Sea transport (IMDG) : No
Air transport (ICAO-TI / IATA-DGR) : No

14.6 Special precautions for user

None

14.7 Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

SECTION 15: Regulatory information

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

Observe technical data sheet or other information on the label.

EU legislation

Authorisations and/or restrictions on use

Restrictions on use

Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)

Use restriction according to REACH annex XVII, no. : 3

National regulations

CH: Chemicals Ordinance, ChemO

Other regulations, restrictions and prohibition regulations

Switzerland

VOCV-Regulation

See section 9.1

15.2 Chemical Safety Assessment

A chemical safety assessment has not been carried out for this preparation. For the following substances of this mixture/preparation a chemical safety assessment has been carried out :

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2 % aromatics ; REACH No. : 01-2119471843-XXXX ; EC No. : 927-241-2

Hydrocarbons, C8-C9, isoalkanes ; REACH No. : 01-2119548335-31 ; EC No. : 932-020-9; CAS No. : 246538-71-6

SECTION 16: Other information

16.1 Indication of changes

None

16.2 Abbreviations and acronyms

ADR = European Agreement concerning the carriage of Dangerous goods by Road

ADN = European Agreement concerning the Carriage of Dangerous Goods by Inland Waterways

ATE = Estimated values for acute toxicity

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AwSV = Ordinance on Installations for Handling Substances Hazardous to Water
CAS = Chemical Abstract Service Number
CE = European Community
CLP = EC Regulation 1272/2008
CMR = cancerogen mutagen reprotoxic
DIN = German Institute for Standardisation
DNEL = Derived No Effect Level
DMEL = Derived Minimum Effect Level
EC50 = Mean effective concentration that induces a defined effect other than death in a test population
EG = European Community
EN = European standards
IATA = International Air Transport Association Dangerous Goods Regulation
IBC-Code = International Code for the construction and equipment of ships carrying dangerous chemicals in large quantities
IMDG = International Maritime Code for dangerous goods
ISO = International Organization for Standardization
LC50 = Lethal Concentration 50%
LD50 = Lethal dose 50%
MAK = Maximum workplace concentration
MARPOL = International Convention for the Protection of the Marine Environment from Ship-generated Litter
NOEC = No Observed Effect Concentration
OECD = Organisation for Economic Cooperation and Development
PBT = Persistent, bioaccumulative and toxic
pH = potential of hydrogen
PNEC = Predicted no effect concentration
PPM = parts per million
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals (EC Regulation 1907/2006)
RID = Regulation concerning the international transport of dangerous goods by train
TRGS = Technical rules for hazardous substances (german rules)
TWA = Time-weighted average exposure limit
UN-Number = UN number for the transport of dangerous goods
vPvB = Very Persistent and very Bioaccumulative as for REACH Regulation
VOC = Volatile organic Compounds

16.3 Key literature references and sources for data

Storage of hazardous substances" guidelines, 3rd revised and updated edition 2018

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

16.5 Relevant H- and EUH-phrases (Number and full text)

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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