



Product Number: 42

ENV/HS High-Density Clear Lacquer

Description:

High-density clear lacquer for use over HW02E, ES/VFR or QVFR

This product comprises of the following materials and therefore is supported by Health & Safety Data Sheets:

- (Appendix 36a) ENV/HS Matt & Gloss
- (Appendix 36b) ENV/HS Satin

*The information contained in this safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to date information. The information given in this data sheet does not constitute or replace the user's own assessment of workplace risk as required by other health and safety legislation.

HEALTH & SAFETY INFORMATION SHEET

APPENDIX 36a

ENV/HS Matt & Gloss

July 2015. Issue 1

1. IDENTIFICATION OF THE PREPARATION AND COMPANY

PRODUCT NAME: ENV/HS Matt & Gloss
MANUFACTURER/SUPPLIER: Envirograf
ADDRESS: Envirograf House, Barfrestone, Dover, Kent, CT15 7JG
TELEPHONE/FAX/EMAIL: 01304 842555 01304 842666 sales@envirograf.com
EMERGENCY PHONE NUMBER: 01304 842555 (Monday to Friday 8.30 – 5.30)

2. HAZARDS IDENTIFICATION

Highly flammable. Vapours may cause drowsiness and dizziness. Harmful: may cause lung damage if swallowed. Irritating to eyes and skin/ possible risk of harm to the unborn child. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

CLASSIFICATION: Xn;R48/20,R65. Xi;R36/38. F;R11. R67

3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
Acetone	200-662-2	67-64-1	5-10%	F;R11 Xi;R36 R66 R67
Butanol-norm	200-751-6	71-36-3	<1%	R10 Xn;R22 Xi;R37/38, R41 R67
Butanone	201-159-0	78-93-3	<1%	F;R11 Xi;R36 R66 R67
Butyl Acetate-norm	204-658-1	123-86-4	10-30%	R10 R66 R67
Formaldehyde...%	200-001-8	50-00-0	<1%	Carc3;R40 T;R23/24/25 C;R34 R43
Iso-Butanol	201-148-0	78-83-1	5-10%	R10 Xi;R37/38, R41 R67
Methanol	200-659-6	67-56-1	<1%	F;R11 T;R23/24/25, R39/23/24/25
Propan-2-ol	200-661-7	67-63-0	1-5%	F;R11 Xi;R36 R67
SBP3 (Exxsol DSP 100/120)	265-151-9	64742-49-0	<1%	Xn;R65 Xi;R38 F;R11 N;R51/53 R67
Toluene	203-625-9	108-88-3	10-30%	F;R11 Repr. Cat. 3;R63 Xn;R48/20, R65 Xi;R38 R67
Xylene	215-535-7	1330-20-7	5-10%	R10 Xn;R20/21 Xi;R38

For full text of all R-Phrases see Section 16

4. FIRST AID MEASURES

GENERAL INFORMATION

NOTE! Keep affected person away from heat, sparks and flames

INHALATION: Move the exposed person to fresh air at once. Provide rest, warmth and fresh air. Seek medical attention if any discomfort continues.

INGESTION: Do not induce vomiting. Never make an unconscious person vomit or drink fluids. Remove immediately from source of exposure. Get medical attention immediately. Provide rest, warmth and fresh air.

SKIN CONTACT: Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

EYE CONTACT: remove person immediately from source of exposure. Remove contact lenses. Promptly wash eyes with plenty of water while holding eyelids apart. Continue to rinse for at least 15 minutes and get medical attention.

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Foam, carbon dioxide or dry powder

SPECIFIC HAZARDS: Fire can release vapours/gases/fumes of Carbon monoxide (Co) Carbon dioxide (CO₂)

6. ACCIDENTAL RELEASE MEASURES

CLEAN-UP METHODS: Wear necessary protective equipment. Absorb in vermiculite, dry sand or earth and place into containers. Do not contaminate water sources or allow to enter sewer system.

7. HANDLING AND STORAGE

USAGE PRECAUTIONS: Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Static electricity and formation of sparks must be prevented.

STORAGE PRECAUTIONS: Store in tightly closed original container in a dry and cool place. Keep in original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	Std	LT-ppm	LT- mg/m ³	ST-ppm	ST-mg/m ³
Acetone	OES	500 ppm	1210 mg/m ³	1500 ppm	3620 mg/m ³
Butanol-norm	OES			50 ppm(Sk)	154 mg/m ³ (Sk)
Butanone	OES	200 ppm	600 mg/m ³ (Sk)	300 ppm(Sk)	899 mg/m ³ (Sk)
Butyl Acetate-norm	OES	150 ppm	724 mg/m ³	200 ppm	966 mg/m ³
Formaldehyde...%	MEL	2 ppm	2.5 mg/m ³	2 ppm	2.5 mg/m ³
Iso-Butanol	OES	50 ppm	154 mg/m ³	75 ppm	231 mg/m ³
Methanol	OES	200 ppm	266 mg/m ³ (Sk)	250 ppm(Sk)	333 mg/m ³ (Sk)
Propan-2-ol	OES	400 ppm	999 mg/m ³	500 ppm	1250 mg/m ³
Toluene	OES	50 ppm	191 mg/m ³ (Sk)	150 ppm(Sk)	574 mg/m ³ (Sk)
Xylene	OES	50 ppm	220 mg/m ³ (Sk)	100 ppm(Sk)	441 mg/m ³ (Sk)

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES: Provide adequate general and local exhaust ventilation

RESPIRATORY EQUIPMENT: No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Occupational Exposure Limit

HAND PROTECTION: Use protective gloves

EYE PROTECTION: Wear approved safety goggles

OTHER PROTECTION: Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

HYGIENE MEASURES: No Smoking. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap and water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Liquid

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal temperature conditions

CONDITIONS TO AVOID: Avoid contact with acids and oxidising substances

HAZARDOUS DECOMPOSITION PRODUCTS: Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO) Carbon dioxide (CO₂)

11. TOXICOLOGICAL INFORMATION

GENERAL INFORMATION: Known or suspected teratogen

INHALATION: Harmful by inhalation. May cause irritation to the respiratory system

INGESTION: Harmful if swallowed

SKIN CONTACT: Harmful in contact with skin. Irritating to skin

EYE CONTACT: Irritating to eyes

OTHER HEALTH EFFECTS: Teratogen Category 1

TARGET ORGANS: Skin. Eyes. Respiratory system, lungs.

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: Dispose of waste and residues in accordance with local authority requirements

14. TRANSPORT INFORMATION



UK ROAD CLASS:	3	UK ROAD PACK GR:	II
PROPER SHIPPING NAME:	PAINT OR PAINT RELATED PRODUCTS		
UN No. ROAD:	1263	ADR CLASS:	Class 3: Flammable liquids
ADR CLASS No:	3	ADR LABEL No:	3
ADR PACK GROUP:	II	CEFIC TEC(R) No:	30GF1-III, 30GF1-sp
HAZCHEM CODE:	3YE	RID PACK GROUP:	III
RID CLASS No:	3	IMDG CLASS:	3
UN No. SEA:	1263	MARINE POLLUTANT:	NO
MFAG:		AIR CLASS:	3
UN No. AIR:	1263		
AIR PACK GR.	III		

15. REGULATORY INFORMATION

LABELLING:



Harmful



Highly Flammable

CONTAINS: TOLUENE

RISK PHRASES:

R11 Highly flammable
R36/38 Irritating to eyes and skin
R48/20 harmful: danger of serious damage to health by prolonged exposure through inhalation
R63 Possible risk of harm to the unborn child
R65 Harmful: may cause lung damage if swallowed
R67 Vapours may cause drowsiness and dizziness

SAFETY PHRASES:

S9 Keep container in a well-ventilated place
S16 Keep away from sources of ignition – No Smoking
S24/25 Avoid contact with skin and eyes.
S26 in case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S36/37 Wear suitable protective clothing and gloves
S51 Use only in well-ventilated areas
S60 This material and its container must be disposed of as hazardous waste
S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

STATUTORY INSTRUMENTS: Chemicals (Hazard Information and Packaging) Regulations

APPROVED CODE OF PRACTICE: Classification and Labelling of Substances and Preparations Dangerous for Supply

GUIDANCE NOTES: Occupational Exposure Limits EH40

16. OTHER INFORMATION

RISK PHRASES IN FULL:

R10 Flammable
R11 Highly flammable
R20/21 Harmful by inhalation and in contact with skin
R22 Harmful if swallowed
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed
R34 Causes burns
R36 Irritating to eyes
R37 Irritating to respiratory system
R37/38 Irritating to respiratory system and skin
R38 Irritating to skin
R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if Swallowed
R40 Limited evidence of carcinogenic effect
R41 Risk of serious damage to eyes
R43 May cause sensitisation by skin contact
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R63 Possible risk of harm to the unborn child
R65 Harmful: may cause lung damage if swallowed
R66 Repeated exposure may cause skin dryness or cracking
R67 Vapours may cause drowsiness and dizziness

The information contained in the Health and Safety Data Sheet is provided in accordance with the requirements of the CHIP Regulations. The product should not be used for purposes other than those shown in section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. This information contained in the safety data sheet is based on present knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

HEALTH & SAFETY INFORMATION SHEET

APPENDIX 36a

ENV/HS Satin

July 2015. Issue 1

1. IDENTIFICATION OF THE PREPARATION AND COMPANY

PRODUCT NAME: ENV/HS Satin
MANUFACTURER/SUPPLIER: Envirograf
ADDRESS: Envirograf House, Barfrestone, Dover, Kent, CT15 7JG
TELEPHONE/FAX/EMAIL: 01304 842555 01304 842666 sales@envirograf.com
EMERGENCY PHONE NUMBER: 01304 842555 (Monday to Friday 8.30 – 5.30)

2. HAZARDS IDENTIFICATION

Highly flammable. Vapours may cause drowsiness and dizziness. Harmful: may cause lung damage if swallowed. Irritating to eyes and skin/ possible risk of harm to the unborn child. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

CLASSIFICATION: Xn;R48/20,R65. Rep 3; Xi;R36/38. F;R11. R67

3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
2-Butoxyethanol	203-905-0	111-76-2	<1%	Xn;R20/21/22 Xi;R36/38
Acetone	200-662-2	67-64-1	5-10%	F;R11 Xi;R36 R66 R67
Butanol-norm	200-751-6	71-36-3	<1%	R10 Xn;R22 Xi;R37/38, R41 R67
Ethanol	200-578-6	64-17-5	10-30%	F;R11
Ethyl Acetate	205-500-4	141-78-6	1-5%	F;R11 Xi;R36 R66 R67
Formaldehyde...%	200-001-8	50-00-0	<1%	Carc3;R40 T;R23/24/25 C;R34 R43
Iso-Butanol	201-148-0	78-83-1	1-5%	R10 Xi;R37/38, R41 R67
Methanol	200-659-6	67-56-1	<1%	F;R11 T;R23/24/25, R39/23/24/25
Propan-2-ol	200-661-7	67-63-0	1-5%	F;R11 Xi;R36 R67
Propyl Acetate	203-686-1	109-60-4	5-10%	F;R11 Xi;R36 R66 R67
Toluene	203-625-9	108-88-3	10-30%	F;R11 Repr. Cat. 3;R63 Xn;R48/20, R65 Xi;R38 R67
Xylene	215-535-7	1330-20-7	5-10%	R10 Xn;R20/21 Xi;R38

For full text of all R-Phrases see Section 16

4. FIRST AID MEASURES

GENERAL INFORMATION

NOTE! Keep affected person away from heat, sparks and flames

INHALATION: Move the exposed person to fresh air at once. Provide rest, warmth and fresh air. Seek medical attention if any discomfort continues.

INGESTION: Do not induce vomiting. Never make an unconscious person vomit or drink fluids. Remove immediately from source of exposure. Get medical attention immediately. Provide rest, warmth and fresh air.

SKIN CONTACT: Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

EYE CONTACT: remove person immediately from source of exposure. Remove contact lenses. Promptly wash eyes with plenty of water while holding eyelids apart. Continue to rinse for at least 15 minutes and get medical attention.

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Foam, carbon dioxide or dry powder

SPECIFIC HAZARDS: Fire can release vapours/gases/fumes of Carbon monoxide (Co) Carbon dioxide (CO₂)

6. ACCIDENTAL RELEASE MEASURES

CLEAN-UP METHODS: Wear necessary protective equipment. Absorb in vermiculite, dry sand or earth and place into containers. Do not contaminate water sources or allow to enter sewer system.

7. HANDLING AND STORAGE

USAGE PRECAUTIONS: Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Static electricity and formation of sparks must be prevented.

STORAGE PRECAUTIONS: Store in tightly closed original container in a dry and cool place. Keep in original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	Std	LT-ppm	LT- mg/m ³	ST-ppm	ST-mg/m ³
2-Butoxyethanol	OES	25 ppm(Sk)		50 ppm(Sk)	
Acetone	OES	500 ppm	1210 mg/m ³	1500 ppm	3620 mg/m ³
Butanol-norm	OES			50 ppm(Sk)	154 mg/m ³ (Sk)
Ethanol	OES	1000 ppm	1920 mg/m ³		
Ethyl Acetate	OES	200 ppm		400 ppm	
Formaldehyde...%	MEL	2 ppm	2.5 mg/m ³	2 ppm	2.5 mg/m ³
Iso-Butanol	OES	50 ppm	154 mg/m ³	75 ppm	231 mg/m ³
Methanol	OES	200 ppm(Sk)	266 mg/m ³ (Sk)	250 ppm(Sk)	333 mg/m ³ (Sk)
Propan-2-ol	OES	400 ppm	999 mg/m ³	500 ppm	1250 mg/m ³
Propyl Acetate	OES	200 ppm	849 mg/m ³	250 ppm	1060 mg/m ³
Toluene	OES	50 ppm(Sk)	191 mg/m ³ (Sk)	150 ppm(Sk)	574 mg/m ³ (Sk)
Xylene	OES	50 ppm(Sk)	220 mg/m ³ (Sk)	100 ppm(Sk)	441 mg/m ³ (Sk)

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES: Provide adequate general and local exhaust ventilation

RESPIRATORY EQUIPMENT: No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Occupational Exposure Limit

HAND PROTECTION: Use protective gloves

EYE PROTECTION: Wear approved safety goggles

OTHER PROTECTION: Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

HYGIENE MEASURES: No Smoking. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap and water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Liquid

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal temperature conditions

CONDITIONS TO AVOID: Avoid contact with acids and oxidising substances

HAZARDOUS DECOMPOSITION PRODUCTS: Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO) Carbon dioxide (CO₂)

11. TOXICOLOGICAL INFORMATION

GENERAL INFORMATION: Known or suspected teratogen

INHALATION: Harmful: danger of serious damage to health by prolonged exposure through inhalation

INGESTION: Pneumonia may be the result if vomited material containing solvents reaches the lungs

SKIN CONTACT: Acts as a defatting agent on skin. May cause cracking of skin and exzema

EYE CONTACT: Irritating to eyes

OTHER HEALTH EFFECTS: Teratogen Category 1. Teratogen Category 3

TARGET ORGANS: Skin. Eyes. Respiratory system, lungs.

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: Dispose of waste and residues in accordance with local authority requirements

14. TRANSPORT INFORMATION



UK ROAD CLASS: 3

PROPER SHIPPING NAME: PAINT OR PAINT RELATED PRODUCTS

UN No. ROAD:	1263	UK ROAD PACK GR:	II
ADR CLASS No:	3	ADR CLASS:	Class 3: Flammable liquids
ADR PACK GROUP:	II	ADR LABEL No:	3
HAZCHEM CODE:	3YE	CEFIC TEC(R) No:	30GF1-III, 30GF1-sp
RID CLASS No:	3	RID PACK GROUP:	III
UN No. SEA:	1263	IMDG CLASS:	3
MFAG:		MARINE POLLUTANT:	NO
UN No. AIR:	1263	AIR CLASS:	3
AIR PACK GR.	III		

15. REGULATORY INFORMATION

LABELLING:



Harmful



Highly Flammable

CONTAINS: TOLUENE

RISK PHRASES:

R11 Highly flammable
R36/38 Irritating to eyes and skin
R48/20 harmful: danger of serious damage to health by prolonged exposure through inhalation
R63 Possible risk of harm to the unborn child
R65 Harmful: may cause lung damage if swallowed
R67 Vapours may cause drowsiness and dizziness

SAFETY PHRASES:

S9 Keep container in a well-ventilated place
S16 Keep away from sources of ignition – No Smoking
S24/25 Avoid contact with skin and eyes.
S26 in case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S36/37 Wear suitable protective clothing and gloves
S51 Use only in well-ventilated areas
S60 This material and its container must be disposed of as hazardous waste
S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

STATUTORY INSTRUMENTS: Chemicals (Hazard Information and Packaging) Regulations

APPROVED CODE OF PRACTICE: Classification and Labelling of Substances and Preparations Dangerous for Supply

GUIDANCE NOTES: Occupational Exposure Limits EH40

16. OTHER INFORMATION

RISK PHRASES IN FULL:

R10 Flammable
R11 Highly flammable
R20/21 Harmful by inhalation and in contact with skin
R22 Harmful if swallowed
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed
R34 Causes burns
R36/38 Irritating to eyes and skin
R37 Irritating to respiratory system
R37/38 Irritating to respiratory system and skin
R38 Irritating to skin
R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if Swallowed
R40 Limited evidence of carcinogenic effect
R41 Risk of serious damage to eyes
R43 May cause sensitisation by skin contact
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation
R63 Possible risk of harm to the unborn child
R65 Harmful: may cause lung damage if swallowed
R66 Repeated exposure may cause skin dryness or cracking
R67 Vapours may cause drowsiness and dizziness

The information contained in the Health and Safety Data Sheet is provided in accordance with the requirements of the CHIP Regulations. The product should not be used for purposes other than those shown in section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. This information contained in the safety data sheet is based on present knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.
