

SAFETY DATA SHEET



ENVIROGRAF®

HS042-HW05-10-2019

Product Number: 42

HW05 Clear Solvent Based Top Coat

Description:

Clear solvent based hard-wearing top coat for use over HW02N.

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

- (Appendix 36a) HW05 Gloss
- (Appendix 36b) HW05 Matt
- (Appendix 36c) HW05 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

HW05 Gloss

August 2018. Issue 2

1. IDENTIFICATION OF THE PREPARATION AND COMPANY

1.1 Product Identifier

PRODUCT NAME: HW05 Gloss

1.2 Details of the supplier of the safety data sheet

MANUFACTURER/SUPPLIER: Envirograf
ADDRESS: Envirograf House, Barrestone, 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

2.1 Classification of the substance or mixture Mixture

Classification: (EC 1272/2009)

Physical hazards: Flam. Liq. 2 – H225

Health hazards: Skin Irrit. 2 – H315, Eye Dam 1 – H318, Repr. 2 – H361d, STOT SE 3 – H336, STOT RE 2- H373

Environmental hazards: Not Classified

2.2 Label elements

Pictogram



Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour
H315 Causes skin irritation
H318 Causes serious eye damage
H336 May cause drowsiness or dizziness
H361d Suspected of damaging the unborn child
H373 May cause damage to organs through prolonged or repeated exposure

Precautionary statements

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P260 Do not breathe vapour/ spray.
P261 Avoid breathing vapour/ spray.
P264 Wash contaminated skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/ attention.
P310 Immediately call a POISON CENTER/ doctor.
P312 Call a POISON CENTRE/doctor if you feel unwell.
P314 Get medical advice/ attention if you feel unwell.

P321 Specific treatment (see medical advice on this label).
P332+P313 If skin irritation occurs: Get medical advice/ attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/ container in accordance with national regulations.

Supplemental label Information: EUH210 Safety data sheet available on request.

Contains: TOLUENE, BUTYL ACETATE -norm, xylene- mixture of isomers, BUTANOL-norm, ACETONE, PROPAN-2-OL, BUTANONE, ISO-BUTANOL

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures

Product/ingredient name	Identifiers	%	Classification
Toluene	EC number: 203-625-9 CAS number: 108-88-3	10-30	Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Repr. 2 - H361d STOT SE 3 - H336 STOT RE 2 - H373 Asp. Tox. 1 - H304
Butyl Acetate - norm	EC number: 204-658-1 CAS number: 123-86-4	10-30	Flam. Liq. 3 - H226 STOT SE 3 - H336
xylene- mixture of isomers	EC number: 215-535-7 CAS number: 1330-20-7	10-30	Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 STOT RE 2 - H373 Asp. Tox. 1 - H304 Aquatic Chronic 3 - H412
Butanol-norm	EC number: 200-751-6 CAS number: 71-36-3	5-10	Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335, H336
Acetone	EC number: 200-662-2 CAS number: 67-64-1	5-10	Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336
Propan-2-OL	EC number: 200-661-7 CAS number: 67-63-0	1-5	Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336
Butanone	EC number: 201-159-0 CAS number: 78-93-3	1-5	Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336
ISO-Butanol	EC number: 201-148-0 CAS number: 78-83-1	1-5	Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335, H336
Methanol	EC number: 200-659-6 CAS number: 67-56-1	0.1-1	Flam. Liq. 2 - H225 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT SE 1 - H370
Formaldehyde	EC number: 200-001-8 CAS number: 50-00-0	<0.05	Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Carc. 1B - H350 STOT SE 3 - H335

See Section 16 for full text of all H-Phrases

4. FIRST AID MEASURES

4.1 Description of 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.

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

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

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media Extinguish with the following media: Extinguish with foam, carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture

Specific hazards Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂).

5.3. Advice for firefighters

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.2. Environmental precautions

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Absorb in vermiculite, dry sand or earth and place into containers. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.4. Reference to other sections

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Usage precautions: Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level. Static electricity and formation of sparks must be prevented.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions: Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container.

7.3. Specific end use(s)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits

TOLUENE

Long-term exposure limit: (8-hour TWA): OES 50 ppm(Sk) 191 mg/m³(Sk)

Short-term exposure limit: (15-minute): OES 150 ppm(Sk) 574 mg/m³(Sk)

BUTYL ACETATE -norm

Long-term exposure limit: (8-hour TWA): OES 150 ppm 724 mg/m³

Short-term exposure limit: (15-minute): OES 200 ppm 966 mg/m³

Xylene- mixture of isomers

Long-term exposure limit: (8-hour TWA): OES 50 ppm(Sk) 220 mg/m³(Sk)

Short-term exposure limit: (15-minute): OES 100 ppm(Sk) 441 mg/m³(Sk)

BUTANOL-norm

Long-term exposure limit: (8-hour TWA): OES

Short-term exposure limit: (15-minute): OES 50 ppm(Sk) 154 mg/m³(Sk)

ACETONE

Long-term exposure limit: (8-hour TWA): OES 500 ppm 1210 mg/m³

Short-term exposure limit: (15-minute): OES 1500 ppm 3620 mg/m³

PROPAN-2-OL

Long-term exposure limit: (8-hour TWA): OES 400 ppm 999 mg/m³

Short-term exposure limit: (15-minute): OES 500 ppm 1250 mg/m³

BUTANONE

Long-term exposure limit: (8-hour TWA): OES 200 ppm(Sk) 600 mg/m³(Sk)

Short-term exposure limit: (15-minute): OES 300 ppm(Sk) 899 mg/m³(Sk)

ISO-BUTANOL

Long-term exposure limit: (8-hour TWA): OES 50 ppm 154 mg/m³

Short-term exposure limit: (15-minute): OES 75 ppm 231 mg/m³

METHANOL

Long-term exposure limit: (8-hour TWA): OES 200 ppm(Sk) 266 mg/m³(Sk)

Short-term exposure limit: (15-minute): OES 250 ppm(Sk) 333 mg/m³(Sk)

FORMALDEHYDE ...%

Long-term exposure limit: (8-hour TWA): MEL 2 ppm 2.5 mg/m³

Short-term exposure limit: (15-minute): MEL 2 ppm 2.5 mg/m³

8.2. Exposure controls

Protective equipment



Appropriate engineering controls: Provide adequate general and local exhaust ventilation.

Eye/face protection: The following protection should be worn: Chemical splash goggles.

Hand protection: Use protective gloves.

Other skin and body protection: Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

Hygiene measures: Do not smoke in work area. 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.

Respiratory protection: No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance: Liquid.

9.2. Other information

10. STABILITY AND REACTIVITY

10.1. Reactivity

10.2. Chemical stability

Stability: Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Conditions to avoid: Avoid contact with the following materials: Acids. Oxidising agents.

10.5. Incompatible materials

10.6. Hazardous decomposition products

Hazardous decomposition products: Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Other health effects: Teratogen Category 1. Teratogen Category 3.

Acute toxicity - oral

ATE oral (mg/kg): 5,937.04

Acute toxicity - dermal

ATE dermal (mg/kg): 9,358.04

Acute toxicity - inhalation

ATE inhalation (gases ppm): 36,736.92

ATE inhalation (vapours mg/l): 93.58

ATE inhalation (dusts/mists mg/l): 12.89

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: Product has a defatting effect on skin. May cause allergic contact eczema.

Eye contact: Irritating to eyes.

Target organs: Skin Eyes Respiratory system, lungs

12. ECOLOGICAL INFORMATION

12.1. Toxicity

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal methods: Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

14. TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID) 1263

UN No. (IMDG) 1263

UN No. (ICAO) 1263

14.2. UN proper shipping name

Proper shipping name (ADR/RID): PAINT OR PAINT RELATED MATERIAL

Proper shipping name (IMDG): PAINT OR PAINT RELATED MATERIAL

Proper shipping name (ICAO): PAINT OR PAINT RELATED MATERIAL

Proper shipping name (ADN): PAINT OR PAINT RELATED MATERIAL

14.3. Transport hazard class(es)

ADR/RID class: 3

ADR/RID label: 3

IMDG class: 3

ICAO class/division: 3

Transport labels



14.4. Packing group

ADR/RID packing group: II

IMDG packing group: II

ICAO packing group: II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS: 3-05

Emergency Action Code: 3YE

Hazard Identification Number (ADR/RID): 33

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

15. REGULATORY INFORMATION

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

National regulations: The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

Guidance Workplace Exposure Limits: EH40.

Approved Classification and Labelling Guide (Sixth edition): L131.

15.2. Chemical safety assessment

16. OTHER INFORMATION

Hazard statements in full: H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H311 Toxic in contact with skin.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H350 May cause cancer.
H361d Suspected of damaging the unborn child.
H370 Causes damage to organs .
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

The information contained in the Health and Safety Data Sheet is provided in accordance with the requirements of the most recent REACH Regulations. The product should not be used for purposes other than those shown 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 EU 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 36b

HW05 Matt

August 2018. Issue 2

1. IDENTIFICATION OF THE PREPARATION AND COMPANY

1.1 Product Identifier

PRODUCT NAME: HW05 Matt

1.2 Details of the supplier of the safety data sheet

MANUFACTURER/SUPPLIER: Envirograf
ADDRESS: Envirograf House, Barrestone, 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

2.1 Classification of the substance or mixture

Mixture

Classification: (EC 1272/2009)

Physical hazards Flam. Liq. 2 – H225
Health hazards Skin Irrit. 2 – H315, Eye Dam 1 – H318, Repr. 2 – H361d, STOT SE 3 – H336,
STOT RE 2- H373
Environmental hazards Not Classified

2.2 Label elements

Pictogram



Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour
H315 Causes skin irritation
H318 Causes serious eye damage
H336 May cause drowsiness or dizziness
H361d Suspected of damaging the unborn child
H373 May cause damage to organs through prolonged or repeated exposure

Precautionary statements

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P260 Do not breathe vapour/ spray.
P261 Avoid breathing vapour/ spray.
P264 Wash contaminated skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/ attention.
P310 Immediately call a POISON CENTER/ doctor.
P312 Call a POISON CENTRE/doctor if you feel unwell.
P314 Get medical advice/ attention if you feel unwell.

P321 Specific treatment (see medical advice on this label).
P332+P313 If skin irritation occurs: Get medical advice/ attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/ container in accordance with national regulations.

Contains: TOLUENE, BUTYL ACETATE -norm, ISO BUTANOL, ACETONE, PROPAN-2-OL,

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures

Product/ingredient name	Identifiers	%	Classification
Toluene	EC number: 203-625-9 CAS number: 108-88-3	10-30	Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Repr. 2 - H361d STOT SE 3 - H336 STOT RE 2 - H373 Asp. Tox. 1 - H304
Butyl Acetate - norm	EC number: 204-658-1 CAS number: 123-86-4	10-30	Flam. Liq. 3 - H226 STOT SE 3 - H336
xylene- mixture of isomers	EC number: 215-535-7 CAS number: 1330-20-7	5-10	Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 STOT RE 2 - H373 Asp. Tox. 1 - H304 Aquatic Chronic 3 - H412
Butanol-norm	EC number: 200-751-6 CAS number: 71-36-3	0.1-1	Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335, H336
Acetone	EC number: 200-662-2 CAS number: 67-64-1	5-10	Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336
Propan-2-OL	EC number: 200-661-7 CAS number: 67-63-0	1-5	Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336
Butanone	EC number: 201-159-0 CAS number: 78-93-3	0.1-1	Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336
ISO-Butanol	EC number: 201-148-0 CAS number: 78-83-1	5-10	Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335, H336
Methanol	EC number: 200-659-6 CAS number: 67-56-1	0.05-0.1	Flam. Liq. 2 - H225 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT SE 1 - H370
Formaldehyde	EC number: 200-001-8 CAS number: 50-00-0	<0.05	Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Carc. 1B - H350 STOT SE 3 - H335

See Section 16 for full text of all H-Phrases

4. FIRST AID MEASURES

4.1 Description of 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.

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

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

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media Extinguish with the following media: Extinguish with foam, carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture

Specific hazards Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂).

5.3. Advice for firefighters

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.2. Environmental precautions

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Absorb in vermiculite, dry sand or earth and place into containers. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.4. Reference to other sections

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Usage precautions: Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level. Static electricity and formation of sparks must be prevented.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions: Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container.

7.3. Specific end use(s)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits

TOLUENE

Long-term exposure limit: (8-hour TWA): OES 50 ppm(Sk) 191 mg/m³(Sk)

Short-term exposure limit: (15-minute): OES 150 ppm(Sk) 574 mg/m³(Sk)

BUTYL ACETATE -norm

Long-term exposure limit: (8-hour TWA): OES 150 ppm 724 mg/m³

Short-term exposure limit: (15-minute): OES 200 ppm 966 mg/m³

Xylene- mixture of isomers

Long-term exposure limit: (8-hour TWA): OES 50 ppm(Sk) 220 mg/m³(Sk)

Short-term exposure limit: (15-minute): OES 100 ppm(Sk) 441 mg/m³(Sk)

BUTANOL-norm

Long-term exposure limit: (8-hour TWA): OES

Short-term exposure limit: (15-minute): OES 50 ppm(Sk) 154 mg/m³(Sk)

ACETONE

Long-term exposure limit: (8-hour TWA): OES 500 ppm 1210 mg/m³

Short-term exposure limit: (15-minute): OES 1500 ppm 3620 mg/m³

PROPAN-2-OL

Long-term exposure limit: (8-hour TWA): OES 400 ppm 999 mg/m³

Short-term exposure limit: (15-minute): OES 500 ppm 1250 mg/m³

BUTANONE

Long-term exposure limit: (8-hour TWA): OES 200 ppm(Sk) 600 mg/m³(Sk)

Short-term exposure limit: (15-minute): OES 300 ppm(Sk) 899 mg/m³(Sk)

ISO-BUTANOL

Long-term exposure limit: (8-hour TWA): OES 50 ppm 154 mg/m³

Short-term exposure limit: (15-minute): OES 75 ppm 231 mg/m³

METHANOL

Long-term exposure limit: (8-hour TWA): OES 200 ppm(Sk) 266 mg/m³(Sk)

Short-term exposure limit: (15-minute): OES 250 ppm(Sk) 333 mg/m³(Sk)

FORMALDEHYDE ...%

Long-term exposure limit: (8-hour TWA): MEL 2 ppm 2.5 mg/m³

Short-term exposure limit: (15-minute): MEL 2 ppm 2.5 mg/m³

8.2. Exposure controls

Protective equipment



Appropriate engineering controls: Provide adequate general and local exhaust ventilation.

Eye/face protection: The following protection should be worn: Chemical splash goggles.

Hand protection: Use protective gloves.

Other skin and body protection: Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

Hygiene measures: Do not smoke in work area. 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.

Respiratory protection: No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance: Liquid.

9.2. Other information

10. STABILITY AND REACTIVITY

10.1. Reactivity

10.2. Chemical stability

Stability: Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Conditions to avoid: Avoid contact with the following materials: Acids. Oxidising agents.

10.5. Incompatible materials

10.6. Hazardous decomposition products

Hazardous decomposition products: Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Other health effects: Teratogen Category 1. Teratogen Category 3.

Acute toxicity - dermal

ATE dermal (mg/kg): 11,974.41

Acute toxicity - inhalation

ATE inhalation (gases ppm): 48,986.22

ATE inhalation (vapours mg/l): 119.74

ATE inhalation (dusts/mists mg/l): 16.33

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: Product has a defatting effect on skin. May cause allergic contact eczema.

Eye contact: Irritating to eyes.

Target organs: Skin Eyes Respiratory system, lungs

12. ECOLOGICAL INFORMATION

12.1. Toxicity

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal methods: Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

14. TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID) 1263

UN No. (IMDG) 1263

UN No. (ICAO) 1263

14.2. UN proper shipping name

Proper shipping name (ADR/RID):	PAINT OR PAINT RELATED MATERIAL
Proper shipping name (IMDG):	PAINT OR PAINT RELATED MATERIAL
Proper shipping name (ICAO):	PAINT OR PAINT RELATED MATERIAL
Proper shipping name (ADN):	PAINT OR PAINT RELATED MATERIAL

14.3. Transport hazard class(es)

ADR/RID class: 3

ADR/RID label: 3

IMDG class: 3

ICAO class/division: 3

Transport labels



14.4. Packing group

ADR/RID packing group: II

IMDG packing group: II

ICAO packing group: II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS: 3-05

Emergency Action Code: 3YE

Hazard Identification Number (ADR/RID) 33

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

15. REGULATORY INFORMATION

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

National regulations: The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

Guidance: Workplace Exposure Limits EH40. Approved Classification and Labelling Guide (Sixth edition) L131.

15.2. Chemical safety assessment

16. OTHER INFORMATION

Hazard statements in full:	H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H301 Toxic if swallowed. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H311 Toxic in contact with skin. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H331 Toxic if inhaled. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H350 May cause cancer. H361d Suspected of damaging the unborn child. H370 Causes damage to organs . H373 May cause damage to organs through prolonged or repeated exposure. H412 Harmful to aquatic life with long lasting effects.
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The information contained in the Health and Safety Data Sheet is provided in accordance with the requirements of the most recent REACH Regulations. The product should not be used for purposes other than those shown 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 EU 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 36c
HW05 Satin

August 2018. Issue 2

1. IDENTIFICATION OF THE PREPARATION AND COMPANY

1.1 Product Identifier

PRODUCT NAME: HW05 Satin

1.2 Details of the supplier of the safety data sheet

MANUFACTURER/SUPPLIER: Envirograf
ADDRESS: Envirograf House, Barrestone, 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

2.1 Classification of the substance or mixture Mixture

Classification: (EC 1272/2009)

Physical hazards Flam. Liq. 2 – H225
Health hazards Skin Irrit. 2 – H315, Eye Dam 1 – H318, Repr. 2 – H361d, STOT SE 3 – H336, STOT RE 2- H373
Environmental hazards Not Classified

2.2 Label elements

Pictogram



Signal word Danger

Hazard statements H225 Highly flammable liquid and vapour
H315 Causes skin irritation
H318 Causes serious eye damage
H336 May cause drowsiness or dizziness
H361d Suspected of damaging the unborn child
H373 May cause damage to organs through prolonged or repeated exposure

Precautionary statements P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P260 Do not breathe vapour/ spray.
P261 Avoid breathing vapour/ spray.
P264 Wash contaminated skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/ attention.
P310 Immediately call a POISON CENTER/ doctor.
P312 Call a POISON CENTRE/doctor if you feel unwell.
P314 Get medical advice/ attention if you feel unwell.

P321 Specific treatment (see medical advice on this label).
P332+P313 If skin irritation occurs: Get medical advice/ attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/ container in accordance with national regulations.

Contains: TOLUENE, BUTYL ACETATE -norm, xylene- mixture of isomers, BUTANOL-norm, ACETONE, PROPAN-2-OL, BUTANONE, ISO-BUTANOL

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures

Product/ingredient name	Identifiers	%	Classification
Toluene	EC number: 203-625-9 CAS number: 108-88-3	10-30	Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Repr. 2 - H361d STOT SE 3 - H336 STOT RE 2 - H373 Asp. Tox. 1 - H304
Butyl Acetate - norm	EC number: 204-658-1 CAS number: 123-86-4	10-30	Flam. Liq. 3 - H226 STOT SE 3 - H336
xylene- mixture of isomers	EC number: 215-535-7 CAS number: 1330-20-7	10-30	Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 STOT RE 2 - H373 Asp. Tox. 1 - H304 Aquatic Chronic 3 - H412
Butanol-norm	EC number: 200-751-6 CAS number: 71-36-3	5-10	Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335, H336
Acetone	EC number: 200-662-2 CAS number: 67-64-1	5-10	Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336
Propan-2-OL	EC number: 200-661-7 CAS number: 67-63-0	1-5	Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336
Butanone	EC number: 201-159-0 CAS number: 78-93-3	1-5	Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336
ISO-Butanol	EC number: 201-148-0 CAS number: 78-83-1	1-5	Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335, H336
Methanol	EC number: 200-659-6 CAS number: 67-56-1	0.1-1	Flam. Liq. 2 - H225 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT SE 1 - H370
Formaldehyde	EC number: 200-001-8 CAS number: 50-00-0	<0.05	Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Carc. 1B - H350 STOT SE 3 - H335

See Section 16 for full text of all H-Phrases

4. FIRST AID MEASURES

4.1 Description of 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.

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

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

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media Extinguish with the following media: Extinguish with foam, carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture

Specific hazards Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂).

5.3. Advice for firefighters

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.2. Environmental precautions

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Absorb in vermiculite, dry sand or earth and place into containers. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.4. Reference to other sections

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Usage precautions: Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level. Static electricity and formation of sparks must be prevented.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions: Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container.

7.3. Specific end use(s)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits

TOLUENE

Long-term exposure limit: (8-hour TWA): OES 50 ppm(Sk) 191 mg/m³(Sk)

Short-term exposure limit: (15-minute): OES 150 ppm(Sk) 574 mg/m³(Sk)

BUTYL ACETATE -norm

Long-term exposure limit: (8-hour TWA): OES 150 ppm 724 mg/m³

Short-term exposure limit: (15-minute): OES 200 ppm 966 mg/m³

Xylene- mixture of isomers

Long-term exposure limit: (8-hour TWA): OES 50 ppm(Sk) 220 mg/m³(Sk)

Short-term exposure limit: (15-minute): OES 100 ppm(Sk) 441 mg/m³(Sk)

BUTANOL-norm

Long-term exposure limit: (8-hour TWA): OES

Short-term exposure limit: (15-minute): OES 50 ppm(Sk) 154 mg/m³(Sk)

ACETONE

Long-term exposure limit: (8-hour TWA): OES 500 ppm 1210 mg/m³

Short-term exposure limit: (15-minute): OES 1500 ppm 3620 mg/m³

PROPAN-2-OL

Long-term exposure limit: (8-hour TWA): OES 400 ppm 999 mg/m³

Short-term exposure limit: (15-minute): OES 500 ppm 1250 mg/m³

BUTANONE

Long-term exposure limit: (8-hour TWA): OES 200 ppm(Sk) 600 mg/m³(Sk)

Short-term exposure limit: (15-minute): OES 300 ppm(Sk) 899 mg/m³(Sk)

ISO-BUTANOL

Long-term exposure limit: (8-hour TWA): OES 50 ppm 154 mg/m³

Short-term exposure limit: (15-minute): OES 75 ppm 231 mg/m³

METHANOL

Long-term exposure limit: (8-hour TWA): OES 200 ppm(Sk) 266 mg/m³(Sk)

Short-term exposure limit: (15-minute): OES 250 ppm(Sk) 333 mg/m³(Sk)

FORMALDEHYDE ...%

Long-term exposure limit: (8-hour TWA): MEL 2 ppm 2.5 mg/m³

Short-term exposure limit: (15-minute): MEL 2 ppm 2.5 mg/m³

8.2. Exposure controls

Protective equipment



Appropriate engineering controls: Provide adequate general and local exhaust ventilation.

Eye/face protection: The following protection should be worn: Chemical splash goggles.

Hand protection: Use protective gloves.

Other skin and body protection: Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

Hygiene measures: Do not smoke in work area. 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.

Respiratory protection: No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance: Liquid.

9.2. Other information

10. STABILITY AND REACTIVITY

10.1. Reactivity

10.2. Chemical stability

Stability: Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Conditions to avoid: Avoid contact with the following materials: Acids. Oxidising agents.

10.5. Incompatible materials

10.6. Hazardous decomposition products

Hazardous decomposition products: Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Other health effects: Teratogen Category 1. Teratogen Category 3.

Acute toxicity - oral

ATE oral (mg/kg): 5,938.67

Acute toxicity - dermal

ATE dermal (mg/kg): 9,697.33

Acute toxicity - inhalation

ATE inhalation (gases ppm): 38,014.1

ATE inhalation (vapours mg/l): 96.97

ATE inhalation (dusts/mists mg/l): 13.36

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: Product has a defatting effect on skin. May cause allergic contact eczema.

Eye contact: Irritating to eyes.

Target organs: Skin Eyes Respiratory system, lungs

12. ECOLOGICAL INFORMATION

12.1. Toxicity

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal methods: Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

14. TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID) 1263

UN No. (IMDG) 1263

UN No. (ICAO) 1263

14.2. UN proper shipping name

Proper shipping name (ADR/RID): PAINT OR PAINT RELATED MATERIAL

Proper shipping name (IMDG): PAINT OR PAINT RELATED MATERIAL

Proper shipping name (ICAO): PAINT OR PAINT RELATED MATERIAL

Proper shipping name (ADN): PAINT OR PAINT RELATED MATERIAL

14.3. Transport hazard class(es)

ADR/RID class: 3

ADR/RID label: 3

IMDG class: 3

ICAO class/division: 3

Transport labels



14.4. Packing group

ADR/RID packing group: II

IMDG packing group: II

ICAO packing group: II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS: 3-05

Emergency Action Code: 3YE

Hazard Identification Number (ADR/RID) 33

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

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15.2. Chemical safety assessment

16. OTHER INFORMATION

Hazard statements in full:

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- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
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- H319 Causes serious eye irritation.
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- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H350 May cause cancer.
- H361d Suspected of damaging the unborn child.
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