



M A T E R I A L S A F E T Y D A T A S H E E T

24-hour Emergency Phone: 1-800-424-9300

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PRODUCT CODE: PF-6-W1FC

1. IDENTIFICATION OF THE PREPARATION AND COMPANY

PRODUCT NAME:	FC FLAT HS BAC 7067/595-37925 WHITE TC	HMS CODES:	H	C	F	R	P
PRODUCT CODE:	PF-6-W1FC		2	3	1	G	

MANUFACTURER'S NAME: HENTZEN AEROSPACE

ADDRESS : 307 Echelon Rd
Greenville, SC 29605

INFORMATION PHONE : 864.299.2819

DATE GENERATED: 3/9/2015

2. COMPOSITION/INFORMATION ON INGREDIENTS

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg	@ TEMP	WEIGHT PERCENT
INORGANIC PIGMENT	13463-67-7	N/A	N/A	25% to 40%
OSHA PEL 8 HR TWA - 15 mg/m ³ (TOTAL DUST)				
*METHYL NORMAL AMYL KETONE	110-43-0	2.80	68 F	10% to 25%
ACGIH TLV: 50 PPM				
SSHA 100 PPM TWA				
POLYESTER POLYOL RESIN		N/A	N/A	10% to 25%
*AMORPHOUS SILICA	7631-86-9	10	3149.6	1% to 10%
AMORPHOUS SILICA, OSHA PEL: 80 MG/M3 /%SIO ₂				
AMORPHOUS SILICA, ACGIH TLV, TWA: 10 MG/M3				
(INHALABLE)				
AMORPHOUS SILICA, ACGIH TLV, TWA: MG/M3				
(RESPIRABLE)				
POLYESTER RESIN	35484-93-6			1% to 10%
*TERT BUTYL ACETATE	540-88-5	34	77 F	1% to 10%
ACGIH - 200ppm				
GLYCOL ETHER PM ACETATE	108-65-6	3.7	68	1% to 10%
*XYLENE	1330-20-7	2.4	68 F	1% to 10%
OSHA PEL: 100 PPM				
ACGIH TLV: 100 PPM				
ETHYL ACETATE	141-78-6	76	68 F	1% to 10%
OSHA PEL: 400 PPM, ACGIH TLV: 400 PPM				
2,4 PENTANEDIONE	123-54-6	6.86	68 F	1% to 10%
ACGIH TLV: 20 PPM				
*ACIDIC POLYESTER SOLUTION		4	68	0% to 1%
1-METHOXY-2-PROPANOL ACETATE, US WEEL, TWA:				
50 PPM				
SOLVENT NAPHTHA, OSHA P1, TWA: 500 PPM, 2000				
MG/M3				
SOLVENT NAPHTHA, ACGIH, TWA: 200 MG/M3				
SOLVENT NAPHTHA, OSHA P0, TWA: 400 PPM, 1600				
MG/M3				
PHOSPHORIC ACID (RESIDUAL), ACGIH, TWA: 1				
MG/M3				
PHOSPHORIC ACID (RESIDUAL), ACGIH, STEL: 3				
PPM				
PHOSPHORIC ACID (RESIDUAL), OSHA P1, TWA: 1				
MG/M3				
PHOSPHORIC ACID (RESIDUAL), OSHA P0, TWA: 1				



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MG/M3				
	PHOSPHORIC ACID (RESIDUAL), OSHA P0, STEL: 3			
MG/M3				
	PHOSPHORIC ACID (RESIDUAL), NIOSH REL, TWA: 1			
MG/M3				
	PHOSPHORIC ACID (RESIDUAL), NIOSH REL, ST: 3			
MG/M3				
	*NITROGEN HETEROCYCLE	N/A	N/A	0% to 1%
	TOLUENE, OSHA PEL, TWA: 200 PPM			
	TOLUENE, OSHA PEL, CEILING: 300 PPM			
	TOLUENE, ACGIH TLV, TWA: 20 PPM			
	XYLENE, OSHA PEL, TWA: 100 PPM, 435 MG/M3			
	XYLENE, ACGIH TLV, STEL: 150 PPM, TWA: 100			
PPM				
	PROPRIETARY POLYMER SOLUTION	4.5	68 F	0% to 1%
	ACRYLIC RESIN	8.0	68 F	0% to 1%
	ACGIH TLV/TWA; 150 PPM			
	ACGIH TLV/STEL; 200 PPM			
	OSHA PEL/TWA; 150 PPM			
	OSHA PEL/STEL; 200 PPM			
	CELLULOSE ACETATE BUTYRATE	9004-36-8	N/A	N/A
	PROPRIETARY AMINE	79720-19-7	25 E-5	140 F
				0% to 1%
	*METHYL ISOBUTYL KETONE	108-10-1	16	68 F
	OSHA VPEL: 50 PPM - TWA			
	OSHA VPEL: 75 PPM - STEL			
	,ACGIH TLV: 50 PPM - TWA			
	,ACGIH TLV: 75 PPM - STEL			
	TIN ALKANOATE	77-58-7	1.0	70 F
	*ETHYL BENZENE	100-41-4	7.1	68 F
	OSHA - 125ppm, ACGIH - 125ppm			
	PROPRIETARY NONHAZARDOUS RESIN			0% to 1%
	AMORPHOUS SILICON DIOXIDE	112945-52-5	N/A	N/A
	OSHA PEL 15 MG/M3			0% to 1%
	ACGIH TLV; 10 MG/M3			
	DIBK	108-83-8	1.7	68 F
	OSHA PEL: 25 PPM, ACGIH TLV: 25 PPM			0% to 1%
	POLYALKYLENE GLYCOL		> 7	68 F
	TLV (ACGIH); 100 PPM			0% to 1%
	STEL (ACGIH); 150 PPM			
	PEL (OSHA): 100 PPM			
	*FLUOROSILICONE		N/A	N/A
	OSHA PEL AND ACGIH TLV: TWA 50 PPM, STEL 75			0% to 1%
PPM				
	*TOLUENE	108-88-3	22.00	68 F
	OSHA PEL: 100 PPM -TWA			0% to 1%
	OSHA PEL: 150 PPM - STEL			
	ACGIH TLV: 50 PPM - TWA (SKIN)			
	ACGIH TLV 150 PPM - STEL (SKIN)			

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

3. HAZARD IDENTIFICATION OF THE PRODUCT

May impair fertility. May cause harm to the unborn child. Flammable. Harmful by inhalation, in contact with skin and if swallowed.

Further information is given in section 11.



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4. FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES

Eye Contact: Flush with water for 15 minutes. Consult a physician. Skin Contact: Wash affected area with soap and water. Remove contaminated clothing. Consult a physician. Inhalation: Remove to fresh air. Consult a physician. Ingestion: Drink water to dilute. Do not induce vomiting. Consult a physician.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL, WATER FOG

SPECIAL FIREFIGHTING PROCEDURES

Water spray may be ineffective. If water is used, fog nozzles are preferred. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Keep containers tightly closed. Isolate from heat, sparks, electrical equipment and open flames. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. Self-contained breathing apparatus should be worn by firefighters.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Evacuate non-essential personnel. Remove all sources of ignition. Ventilate the area. Equip clean-up crew with self-contained breathing apparatus. Dike spill. Cover with sawdust, vermiculite or Fuller's earth. Collect in open containers.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Do not store above 100 degrees F. Store in large quantities only in buildings designed to comply with OSHA 1910.106. Keep containers closed and upright to prevent leakage. Do not store or use near heat, sparks or flames.

OTHER PRECAUTIONS

Avoid prolonged or repeated contact with vapor or spray mist during application or curing.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapour below occupational exposure limits suitable respiratory protection must be worn.

Personal Protection

Respiratory Protection

Where overspray is present, a positive pressure air supplied respirator (TC19C NIOSH/MSHA approved) should be worn. If unavailable, a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2 may be effective. Follow respirator manufacturer's directions for use. Wear the respirator for the entire time of spraying and until all vapors and mists are gone. NO PERSONS SHOULD BE ALLOWED IN THE AREA WHERE THIS PRODUCT IS BEING USED UNLESS EQUIPPED WITH THE SAME RESPIRATOR PROTECTION RECOMMENDED FOR THE



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PAINTERS. When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

Eye Protection

Wear safety eyewear, e.g. safety spectacles, goggles or visors to protect against the splash of liquids.

Hand Protection

Nitrile rubber gloves should be worn during mixing and application.

Skin Protection

Overalls which cover the body, arms and legs should be worn. Skin should not be exposed. Barrier creams may help to protect areas which are difficult to cover such as the face and neck. They should however not be applied once exposure has occurred. Petroleum jelly based types such as Vaseline should not be used. All parts of the body should be washed after contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 168.0 F	BOILING RANGE: 168.0 F TO 4046.0
N/A	
FLASH POINT ⁰F: 26.00	METHOD USED: TCC
COATING V.O.C.: 450.41 G/L	MATERIAL V.O.C.: 414.46 G/L
SPECIFIC GRAVITY (H₂O=1): 1.3131	
VAPOR DENSITY: HEAVIER THAN AIR	
EVAPORATION RATE: SLOWER THAN ETHER	
SOLUBILITY IN WATER: INSOLUBLE	
APPEARANCE AND ODOR: OPAQUE WITH ODOR OF SOLVENT	

10. STABILITY AND REACTIVITY

STABILITY: STABLE

CONDITIONS TO AVOID

Temperatures above maximum storage temperature. Avoid exposure to heat, sparks, or open flames.

INCOMPATIBILITY (MATERIALS TO AVOID)

Avoid contact with strong oxidizing agents.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

By fire - CO, CO₂, nitrogen oxides.

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

There are no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See Sections 2 and 15 for details.

Exposure to solvent vapour concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.



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12. ECOLOGICAL INFORMATION

There are no data available on the product itself.
The product should not be allowed to enter drains or water courses.
The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 199/45/EC and is not classified as dangerous for the environment.

13. DISPOSAL CONSIDERATIONS

Do not allow into drains or water courses. Wastes and empty containers should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act.

14. TRANSPORT INFORMATION

Transport only in accordance with the following regulations:
ADR/RID UN1263 Paint, 3, II

IMDG	Class	3	Subsidiary Class
	Proper Shipping Name	PAINT	
	UN No	1263	
	Ems	F-E, S-E	
	Packaging Group	II	
	Marine Pollutant	No	
ICAO/IATA	Shipping Name	PAINT	
	Class	3	
	UN No	1263	
	Packaging Group	II	

15. REGULATORY INFORMATION

In accordance with EC Directive 88/379/EEC and the Chemicals (Hazard Information and Packaging for Supply) Regulations SI /3247/1994 this product is labeled as follows:

TSCA:

Complies (all chemical constituents are listed on the TSCA 8b inventory or are exempt from listing.)

State Regulations:

This product may contain chemicals that fall under individual state Right-to-Know regulatory requirements. See section two (2) for material listings. For details on regulatory requirements, contact the appropriate agency in your state.

Symbol(s)

Toxic

Contains:

R. Phrases:

May impair fertility.
May cause harm to the unborn child.
Flammable.
Harmful by inhalation, in contact with skin and if swallowed.

S. Phrases:

Attention - Avoid Exposure - obtain special instructions before use.
Do not breathe vapour/spray.
Wear suitable protective clothing, gloves and eye/face protection.



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Use only in well-ventilated areas.

P. Phrases:

Restricted to professional users.

16. OTHER INFORMATION

The information contained herein is based on data considered accurate, but no warranty is expressed or implied. Users assume all responsibility and liability for loss or damage arising from the handling and use of our products, whether used alone or in combinations. Although hazardous materials are listed, we cannot guarantee these are the only ones that exist.



HENTZEN AEROSPACE

MATERIAL SAFETY DATA SHEET

24-hour Emergency Phone: 1-800-424-9300
PRODUCT CODE: PH-34FC

1. IDENTIFICATION OF THE PREPARATION AND COMPANY

PRODUCT NAME: FC POLYUETHANE CURING SOLUTION HMIS CODES: H C F R P
PRODUCT CODE: PH-34FC 2 3 1 G

MANUFACTURER'S NAME: HENTZEN AEROSPACE

ADDRESS: 307 Echelon Rd
Greenville, SC 29605

INFORMATION PHONE: 864.299.2819 DATE GENERATED: 9/18/2014

2. COMPOSITION/INFORMATION ON INGREDIENTS

Table with 5 columns: REPORTABLE COMPONENTS, CAS NUMBER, VAPOR PRESSURE mm Hg, @ TEMP, WEIGHT PERCENT. Lists various chemical components like ALIPHATIC POLYISOCYANATE, METHYL ETHYL KETONE, etc.

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

3. HAZARD IDENTIFICATION OF THE PRODUCT

May impair fertility. May cause harm to the unborn child. Flammable. Harmful by inhalation, in contact with skin and if swallowed.

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4. FIRST AID MEASURES



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EMERGENCY AND FIRST AID PROCEDURES

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5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: FOAM, CO₂, DRY CHEMICAL, WATER FOG

SPECIAL FIREFIGHTING PROCEDURES

Water spray may be ineffective. If water is used, fog nozzles are preferred. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Keep containers tightly closed. Isolate from heat, sparks, electrical equipment and open flames. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. Self-contained breathing apparatus should be worn by firefighters.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Evacuate non-essential personnel. Remove all sources of ignition. Ventilate the area. Equip clean-up crew with self-contained breathing apparatus. Dike spill. Cover with sawdust, vermiculite or Fuller's earth. Collect in open containers.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Do not store above 100 degrees F. Store in large quantities only in buildings designed to comply with OSHA 1910.106. Keep containers closed and upright to prevent leakage. Do not store or use near heat, sparks or flames.

OTHER PRECAUTIONS

Avoid prolonged or repeated contact with vapor or spray mist during application or curing.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapour below occupational exposure limits suitable respiratory protection must be worn.

Personal Protection

Respiratory Protection

Where overspray is present, a positive pressure air supplied respirator (TC19C NIOSH/MSHA approved) should be worn. If unavailable, a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2 may be effective. Follow respirator manufacturer's directions for use. Wear the respirator for the entire time of spraying and until all vapors and mists are gone. NO PERSONS SHOULD BE ALLOWED IN THE AREA WHERE THIS PRODUCT IS BEING USED UNLESS EQUIPPED WITH THE SAME RESPIRATOR PROTECTION RECOMMENDED FOR THE PAINTERS. When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.



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Eye Protection

Wear safety eyewear, e.g. safety spectacles, goggles or visors to protect against the splash of liquids.

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Nitrile rubber gloves should be worn during mixing and application.

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9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 175.0 F	BOILING RANGE: 175.0 F TO 313.0 F
FLASH POINT °F: 15.80	METHOD USED: TCC
COATING V.O.C.: 362.38 G/L	MATERIAL V.O.C.: 308.20 G/L
SPECIFIC GRAVITY (H2O=1): 1.0028	
VAPOR DENSITY: HEAVIER THAN AIR	
EVAPORATION RATE: SLOWER THAN ETHER	
SOLUBILITY IN WATER: INSOLUBLE	
APPEARANCE AND ODOR: OPAQUE WITH ODOR OF SOLVENT	

10. STABILITY AND REACTIVITY

STABILITY: STABLE

CONDITIONS TO AVOID

Temperatures above maximum storage temperature. Avoid exposure to heat, sparks, or open flames.

INCOMPATIBILITY (MATERIALS TO AVOID)

Avoid contact with strong oxidizing agents.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

By fire - CO, CO₂, nitrogen oxides and traces of HCN, TDI and HDI.

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

There are no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See Sections 2 and 15 for details.

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	UN No	1263	
	Ems	F-E, S-E	
	Packaging Group	II	
	Marine Pollutant	No	
ICAO/IATA	Shipping Name	PAINT	
	Class	3	
	UN No	1263	
	Packaging Group	II	

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Symbol(s)

Toxic

Contains:

R. Phrases:

May impair fertility.
May cause harm to the unborn child.
Flammable.
Harmful by inhalation, in contact with skin and if swallowed.

S. Phrases:

Attention - Avoid Exposure - obtain special instructions before use.
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Wear suitable protective clothing, gloves and eye/face protection.
Use only in well-ventilated areas.

P. Phrases:

Restricted to professional users.



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16. OTHER INFORMATION

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