

MATERIAL SAFETY DATA SHEET

JETFLEX
2006



Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFICATION	HMIS CODES
JetFlex® Interior Aircraft Finishes Non-Lead Colors (E-, L- Colors)	Health 2* Flammability 3 Reactivity 0

MANUFACTURER'S NAME	EMERGENCY TELEPHONE NO.
THE SHERWIN-WILLIAMS COMPANY	(216) 566-2917
101 Prospect Avenue N.W.	
Cleveland, OH 44115	
DATE OF PREPARATION	INFORMATION TELEPHONE NO.
16-APRIL-06	(216) 566-2902

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT	UNITS	VAPOR PRESSURE
3-5	108-88-3	Toluene		
		ACGIH TLV	50 ppm (Skin)	22 mm
		OSHA PEL	100 ppm (Skin)	
		OSHA PEL	150 ppm (Skin) STEL	
<1	100-41-4	Ethylbenzene		
		ACGIH TLV	100 ppm	7.1 mm
		ACGIH TLV	125 ppm STEL	
		OSHA PEL	100 ppm	
		OSHA PEL	125 ppm STEL	
1	1330-20-7	Xylene		
		ACGIH TLV	100 ppm	5.9 mm
		ACGIH TLV	150 ppm STEL	
		OSHA PEL	100 ppm	
		OSHA PEL	150 ppm STEL	
2-4	67-63-0	2-Propanol		
		ACGIH TLV	400 ppm	33 mm
		ACGIH TLV	500 ppm STEL	
		OSHA PEL	400 ppm	
		OSHA PEL	500 ppm STEL	
9-15	78-93-3	Methyl Ethyl Ketone		
		ACGIH TLV	200 ppm	70 mm
		ACGIH TLV	300 ppm STEL	
		OSHA PEL	200 ppm	
		OSHA PEL	300 ppm STEL	
8-15	108-94-1	Cyclohexanone		
		ACGIH TLV	25 ppm (Skin)	2 mm
		OSHA PEL	25 ppm (Skin)	
0-1	108-21-4	Isopropyl Acetate		
		ACGIH TLV	250 ppm	47.5 mm
		ACGIH TLV	310 ppm STEL	
		OSHA PEL	250 ppm	
		OSHA PEL	310 ppm STEL	

17-28	123-86-4	n-Butyl Acetate	ACGIH TLV	150 ppm	10 mm
			ACGIH TLV	200 ppm STEL	
			OSHA PEL	150 ppm	
			OSHA PEL	200 ppm STEL	
4-11	108-65-6	1-Methoxy-2-Propanol Acetate	ACGIH TLV	Not Available	1.8 mm
			OSHA PEL	Not Available	
1-5	112926-00-8	Amorphous Precipitated Silica	ACGIH TLV	10 mg/m3 as Dust	
			OSHA PEL	6 mg/m3 as Dust	
0-9	14807-96-6	Talc	ACGIH TLV	2 mg/m3 as Resp. Dust	
			OSHA PEL	2 mg/m3 as Resp. Dust	
0-27	13463-67-7	Titanium Dioxide	ACGIH TLV	10 mg/m3 as Dust	
			OSHA PEL	10 mg/m3 Total Dust	
			OSHA PEL	5 mg/m3 Respirable Fraction	
0-4	1333-86-4	Carbon Black	ACGIH TLV	3.5 mg/m3	
			OSHA PEL	3.5 mg/m3	

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

May cause allergic respiratory and/or skin reaction in susceptible persons or sensitization. This effect may be delayed several hours after exposure.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes.
Get medical attention.

SKIN: Wash affected area thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.

INHALATION: If any breathing problems occur during use, LEAVE THE AREA and get fresh air. If problems remain or occur later, IMMEDIATELY get medical attention.

INGESTION: Do not induce vomiting.
Get medical attention immediately.

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VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

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 whole 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.

PROTECTIVE GLOVES

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PROTECTIVE EQUIPMENT

Use barrier cream on exposed skin.

OTHER PRECAUTIONS

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

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Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	8-11 lb/gal	960-1320 g/l
SPECIFIC GRAVITY	0.96-1.32	
BOILING POINT	174 - 320 °F	78 - 160 °C
MELTING POINT	Not Available	
VOLATILE VOLUME	73-83 %	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)		
<6.1 lb/gal	<730 g/l	Less Water and Federally Exempt Solvents
<6.1 lb/gal	<730 g/l	Emitted VOC

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Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable
CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

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 Section 11 -- TOXICOLOGICAL INFORMATION
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CHRONIC HEALTH HAZARDS

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Carbon Black is classified by IARC as possibly carcinogenic to humans (group 2B) based on experimental animal data, however, there is insufficient evidence in humans for its carcinogenicity.

Methyl Ethyl Ketone may increase the nervous system effects of other solvents.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, blood forming, cardiovascular and reproductive systems.

Persons sensitive to isocyanates will experience increased allergic reaction on repeated exposure.

Rats exposed to titanium dioxide dust at 250 mg./m³ developed lung cancer, however, such exposure levels are not attainable in the workplace.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

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 TOXICOLOGY DATA

CAS No.	Ingredient Name					
108-88-3	Toluene	LC50	RAT	4HR	4000	ppm
		LD50	RAT		5000	mg/kg
100-41-4	Ethylbenzene	LC50	RAT	4HR	Not Available	
		LD50	RAT		3500	mg/kg
1330-20-7	Xylene	LC50	RAT	4HR	5000	ppm
		LD50	RAT		4300	mg/kg
67-63-0	2-Propanol	LC50	RAT	4HR	Not Available	
		LD50	RAT		5045	mg/kg
78-93-3	Methyl Ethyl Ketone	LC50	RAT	4HR	Not Available	
		LD50	RAT		2740	mg/kg
108-94-1	Cyclohexanone	LC50	RAT	4HR	8000	ppm
		LD50	RAT		1535	mg/kg
108-21-4	Isopropyl Acetate	LC50	RAT	4HR	Not Available	
		LD50	RAT		3000	mg/kg
123-86-4	n-Butyl Acetate	LC50	RAT	4HR	2000	ppm
		LD50	RAT		13100	mg/kg
108-65-6	1-Methoxy-2-Propanol Acetate	LC50	RAT	4HR	Not Available	
		LD50	RAT		8500	mg/kg
112926-00-8	Amorphous Precipitated Silica	LC50	RAT	4HR	Not Available	
		LD50	RAT		4999.	mg/kg

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 TOXICOLOGY DATA

CAS No.	Ingredient Name				
14807-96-6	Talc	LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
13463-67-7	Titanium Dioxide	LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
1333-86-4	Carbon Black	LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

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 Section 12 -- ECOLOGICAL INFORMATION
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 ECOTOXICOLOGICAL INFORMATION

No data available.

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 Section 13 -- DISPOSAL CONSIDERATIONS
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 WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability and extractability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

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 Section 14 -- TRANSPORT INFORMATION
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No data available.

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 Section 15 -- REGULATORY INFORMATION
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 SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT
108-88-3	Toluene	max 5
100-41-4	Ethylbenzene	max 0.2
1330-20-7	Xylene	max 1

 CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.