

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form OSHA-20
(Rev. May 72)

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

PLAINTIFF'S EXHIBIT

BIR-838

SECTION I

MANUFACTURER'S NAME

Bird Inc.

EMERGENCY TELEPHONE NO.

(617) 668-2500

ADDRESS (Number, Street, City, State and Zip Code)

Washington Street, E. Walpole, MA 02032

CHEMICAL NAME AND SYNONYMS

TRADE NAME AND SYNONYMS

Asphalt Roofing Products

CHEMICAL FAMILY

Fiberglass Mat or Organic felt - Asphalt - Mineral Filler
& Surfacing

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS		TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS	N.A.		BASE METAL	N.A.	
CATALYST	N.A.		ALLOY	N.A.	
VEHICLE	N.A.		METALLIC COATINGS	N.A.	
SOLVENTS	N.A.		FILLER METAL PLUS COATING OR CORE FLUX	N.A.	
ADDITIVES	N.A.		OTHERS	N.A.	
OTHERS	N.A.				
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES					% TLV (Units)
N.A.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F)	Not known to boil	SPECIFIC GRAVITY (H ₂ O = 1)	
VAPOR PRESSURE (mm Hg.)	DNA	PERCENT VOLATILE BY VOLUME (%)	Negligible
VAPOR DENSITY (AIR = 1)	DNA	EVAPORATION RATE (... = 1)	< 0.01
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Solid/no odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	FLAMMABLE LIMITS	Exp	Exp
EXTINGUISHING MEDIA			
SPECIAL FIRE FIGHTING PROCEDURES			
UNUSUAL FIRE AND EXPLOSION HAZARDS			

Water, CO₂, foam and dry chemical

No unusual procedures

No unusual procedures

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE Not applicable

EFFECTS OF OVEREXPOSURE Minimal irritation to skin

EMERGENCY AND FIRST AID PROCEDURES

None required

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID <u>open flame/sparks</u>
	STABLE	<u>X</u>	<u>Yes</u>

INCOMPATIBILITY (Materials to avoid) None expected

HAZARDOUS DECOMPOSITION PRODUCTS
Smoke, carbon monoxide, sulphur oxides when combusted.

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	<u>X</u>	

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

No unusual procedures

WASTE DISPOSAL METHOD No special hazardous - Dispose of in accordance with Federal and State and local laws.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) Not ordinarily required

VENTILATION	LOCAL EXHAUST	<u>Not ordinarily required</u>	SPECIAL
	MECHANICAL (General)		OTHER

PROTECTIVE GLOVES <u>For sensitive skin</u>	EYE PROTECTION <u>Not ordinarily required</u>
OTHER PROTECTIVE EQUIPMENT	

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Packages are heavy - use caution when lifting.

OTHER PRECAUTIONS

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form OSHA-203
Rev. 5-72

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

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Bird Inc.

EMERGENCY TELEPHONE NO.

(617) 668-2500

ADDRESS (Number, Street, City, State and ZIP Code)

Washington Street, E. Walpole, MA 02032

CHEMICAL NAME AND SYNONYMS

TRADE NAME AND SYNONYMS

Asphalt Roofing Products

CHEMICAL FAMILY

Fiberglass Mat or Organic felt - Asphalt - Mineral Filler
& Surfacing

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS

TLV
(Units)

ALLOYS AND METALLIC COATINGS

%

TLV
(Units)

PIGMENTS N.A.

BASE METAL N.A.

CATALYST N.A.

ALLOY N.A.

VEHICLE N.A.

METALLIC COATINGS N.A.

SOLVENTS N.A.

FILLER METAL
PLUS COATINGS OR CORE FLUX N.A.

ADDITIVES N.A.

OTHERS N.A.

OTHERS N.A.

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES

%

TLV
(Units)

N.A.

SECTION III - PHYSICAL DATA

BOILING POINT (°F.) Not known to boil

SPECIFIC GRAVITY (H₂O = 1)

VAPOR PRESSURE (mm Hg.)

DNA

PERCENT VOLATILE
BY VOLUME (%) Negligible

VAPOR DENSITY (AIR = 1)

DNA

EVAPORATION RATE
(g/m²/hr) < 0.01

SOLUBILITY IN WATER

Insoluble

APPEARANCE AND ODOR Solid/no odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)

FLAMMABLE LIMITS

Lower

Upper

EXTINGUISHING MEDIA

Water, CO₂, foam and dry chemical

SPECIAL FIRE FIGHTING PROCEDURES

No unusual procedures

UNUSUAL FIRE AND EXPLOSION HAZARDS

No unusual procedures

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE Not applicable

EFFECTS OF OVEREXPOSURE Minimal irritation to skin

EMERGENCY AND FIRST AID PROCEDURES

None required

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID <u>open flame/sparks</u>
	STABLE	<u>X</u>	

INCOMPATIBILITY (Materials to avoid) None expected

HAZARDOUS DECOMPOSITION PRODUCTS
Smoke, carbon monoxide, sulphur oxides when combusted.

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	<u>X</u>	

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

No unusual procedures

WASTE DISPOSAL METHOD No special hazardous - Dispose of in accordance with Federal and State and local laws.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) Not ordinarily required

VENTILATION	LOCAL EXHAUST <u>Not ordinarily required</u>	SPECIAL
	MECHANICAL (General)	OTHER

PROTECTIVE GLOVES <u>For sensitive skin</u>	EYE PROTECTION <u>Not ordinarily required</u>
OTHER PROTECTIVE EQUIPMENT	

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Packages are heavy - use caution when lifting.

OTHER PRECAUTIONS

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form approved
OSHA No. 34 (11-87)

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shiptbreaking (29 CFR 1915, 1916, 1917)

SECTION I

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Bird Inc.

EMERGENCY TELEPHONE NO.

(617) 668-2500

ADDRESS (Number, Street, City, State, and ZIP Code)

Washington Street, E. Walpole, MA 02032

CHEMICAL NAME AND SYNONYMS

TRADE NAME AND SYNONYMS

Asphalt Roofing Products

CHEMICAL FAMILY

FORMULA

Fiberglass Mat or Organic felt - Asphalt - Mineral Filler
& Surfacing

SECTION II HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS		TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS	N.A.		BASE METAL	N.A.	
CATALYST	N.A.		ALLOYS	N.A.	
VEHICLE	N.A.		METALLIC COATINGS	N.A.	
SOLVENTS	N.A.		FILLER METAL PLUS COATING OR CORE FLUX	N.A.	
ADDITIVES	N.A.		OTHERS	N.A.	
OTHERS	N.A.				
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES					TLV (Units)
N.A.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	Not known to boil	SPECIFIC GRAVITY (H ₂ O=1)	
VAPOR PRESSURE (mm Hg.)	DNA	PERCENT VOLATILE BY VOLUME (%)	Negligible
VAPOR DENSITY (AIR=1)	DNA	EVAPORATION RATE ($\frac{\text{g}}{\text{cm}^2 \text{ hr}}$)	< 0.01
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Solid/no odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA			
SPECIAL FIRE FIGHTING PROCEDURES			
UNUSUAL FIRE AND EXPLOSION HAZARDS			
No unusual procedures			
No unusual procedures			

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	Not applicable
EFFECTS OF OVEREXPOSURE	Minimal irritation to skin
EMERGENCY AND FIRST AID PROCEDURES	
None required	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID open flame/sparks
	STABLE	X	Yes
INCOMPATIBILITY (Materials to avoid)		None expected	
HAZARDOUS DECOMPOSITION PRODUCTS Smoke, carbon monoxide, sulphur oxides when combusted.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
No unusual procedures	
WASTE DISPOSAL METHOD	
No special hazardous - Dispose of in accordance with Federal and State and local laws.	

SECTION VIII - SPECIAL PROTECTION INFORMATION		
RESPIRATORY PROTECTION (Specify type)		
Not ordinarily required		
VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General)	OTHER
PROTECTIVE GLOVES For sensitive skin		EYE PROTECTION Not ordinarily required
OTHER PROTECTIVE EQUIPMENT		

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
Packages are heavy - use caution when lifting.	
OTHER PRECAUTIONS	

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form approved
OSHA 150, 44 (1) 187

MATERIAL SAFETY DATA SHEET

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Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

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EMERGENCY TELEPHONE NO.

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Washington Street, E. Walpole, MA 02032

CHEMICAL NAME AND SYNONYMS

TRADE NAME AND SYNONYMS

Asphalt Roofing Products

CHEMICAL FAMILY

FORMULA

Fiberglass Mat or Organic felt - Asphalt - Mineral Filler
& Surfacing

SECTION II HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS		TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS	N.A.		BASE METAL	N.A.	
CATALYST	N.A.		ALLOYS	N.A.	
VEHICLE	N.A.		METALLIC COATINGS	N.A.	
SOLVENTS	N.A.		FILLER METAL PLUS COATING OR CORE FLUX	N.A.	
ADDITIVES	N.A.		OTHERS	N.A.	
OTHERS	N.A.				
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
N.A.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	Not known to boil	SPECIFIC GRAVITY (H ₂ O = 1)	
VAPOR PRESSURE (mm Hg.)	DNA	PERCENT VOLATILE BY VOLUME (%)	Negligible
VAPOR DENSITY (AIR = 1)	DNA	EVAPORATION RATE (1 = 1)	< 0.01
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Solid/no odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	FLAMMABLE LIMITS	L _{FL}	U _{FL}
EXTINGUISHING MEDIA			
SPECIAL FIRE FIGHTING PROCEDURES			
No unusual procedures			
UNUSUAL FIRE AND EXPLOSION HAZARDS			
No unusual procedures			

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

Not applicable

EFFECTS OF OVEREXPOSURE

Minimal irritation to skin

EMERGENCY AND FIRST AID PROCEDURES

None required

SECTION VI - REACTIVITY DATA

STABILITY

UNSTABLE

CONDITIONS TO AVOID

open flame/sparks

STABLE

X

Yes

INCOMPATIBILITY (Materials to avoid)

None expected

HAZARDOUS DECOMPOSITION PRODUCTS

Smoke, carbon monoxide, sulphur oxides when combusted.

HAZARDOUS
POLYMERIZATION

MAY OCCUR

CONDITIONS TO AVOID

WILL NOT OCCUR

X

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

No unusual procedures

WASTE DISPOSAL METHOD

No special hazardous - Dispose of in accordance with Federal and State and local laws.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

Not ordinarily required

VENTILATION

LOCAL EXHAUST

Not ordinarily required

SPECIAL

MECHANICAL (General)

OTHER

PROTECTIVE GLOVES

For sensitive skin

EYE PROTECTION

Not ordinarily required

OTHER PROTECTIVE EQUIPMENT

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Packages are heavy - use caution when lifting.

OTHER PRECAUTIONS

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form approved
OSHA No. 44 (1) 107

MATERIAL SAFETY DATA SHEET

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SECTION I

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ADDRESS (Number, Street, City, State, and ZIP Code)

Washington Street, E. Walpole, MA 02032

CHEMICAL NAME AND SYNONYMS

TRADE NAME AND SYNONYMS

Asphalt Roofing Products

CHEMICAL FAMILY

FORMULA

Fiberglass Mat or Organic felt - Asphalt - Mineral Filler
& Surfacing

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS		TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS	N.A.		BASE METAL	N.A.	
CATALYST	N.A.		ALLOYS	N.A.	
VEHICLE	N.A.		METALLIC COATINGS	N.A.	
SOLVENTS	N.A.		FILLER METAL PLUS COATING OR CORE FLUX	N.A.	
ADDITIVES	N.A.		OTHERS	N.A.	
OTHERS	N.A.				
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
N.A.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	Not known to boil	SPECIFIC GRAVITY (H ₂ O = 1)	
VAPOR PRESSURE (mm Hg.)	DNA	PERCENT VOLATILE BY VOLUME (%)	Negligible
VAPOR DENSITY (AIR = 1)	DNA	EVAPORATION RATE (H ₂ O = 1)	< 0.01
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Solid/no odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	FLAMMABLE LIMITS	L _o	U _o
EXTINGUISHING MEDIA			
SPECIAL FIRE FIGHTING PROCEDURES			
No unusual procedures			
UNUSUAL FIRE AND EXPLOSION HAZARDS			
No unusual procedures			

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

Not applicable

EFFECTS OF OVEREXPOSURE

Minimal irritation to skin

EMERGENCY AND FIRST AID PROCEDURES

None required

SECTION VI - REACTIVITY DATA

STABILITY

UNSTABLE

CONDITIONS TO AVOID

open flame/sparks

STABLE

X

Yes

INCOMPATIBILITY (Materials to avoid)

None expected

HAZARDOUS DECOMPOSITION PRODUCTS

Smoke, carbon monoxide, sulphur oxides when combusted.

HAZARDOUS
POLYMERIZATION

MAY OCCUR

CONDITIONS TO AVOID

WILL NOT OCCUR

X

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

No unusual procedures

WASTE DISPOSAL METHOD

No special hazardous - Dispose of in accordance with Federal and State and local laws.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

Not ordinarily required

VENTILATION

LOCAL EXHAUST

Not ordinarily required

SPECIAL

MECHANICAL (General)

OTHER

PROTECTIVE GLOVES

For sensitive skin

EYE PROTECTION

Not ordinarily required

OTHER PROTECTIVE EQUIPMENT

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Packages are heavy - use caution when lifting.

OTHER PRECAUTIONS

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form Approved
OSHA No. 44 (11-87)

MATERIAL SAFETY DATA SHEET

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SECTION I

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CHEMICAL NAME AND SYNONYMS

TRADE NAME AND SYNONYMS

Asphalt Roofing Products

CHEMICAL FAMILY

FORMULA

Fiberglass Mat or Organic felt - Asphalt - Mineral Filler
& Surfacing

SECTION II HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS		TLV (Units)	ALLOYS AND METALLIC COATINGS		%	TLV (Units)
PIGMENTS	N.A.		BASE METAL	N.A.		
CATALYST	N.A.		ALLOYS	N.A.		
VEHICLE	N.A.		METALLIC COATINGS	N.A.		
SOLVENTS	N.A.		FILLER METAL PLUS COATINGS OR CORE FLUX	N.A.		
ADDITIVES	N.A.		OTHERS	N.A.		
OTHERS	N.A.					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES						% TLV (Units)
N.A.						

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	Not known to boil	SPECIFIC GRAVITY (H ₂ O = 1)	
VAPOR PRESSURE (mm Hg.)	DNA	PERCENT VOLATILE BY VOLUME (%)	Negligible
VAPOR DENSITY (AIR = 1)	DNA	EVAPORATION RATE (H ₂ O = 1)	< 0.01
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Solid/no odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)		FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA	Water, CO ₂ , foam and dry chemical			
SPECIAL FIRE FIGHTING PRECAUTIONS				
UNUSUAL FIRE AND EXPLOSION HAZARDS	No unusual procedures			
	No unusual procedures			

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	Not applicable
EFFECTS OF OVEREXPOSURE	Minimal irritation to skin
EMERGENCY AND FIRST AID PROCEDURES	
None required	

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID open flame/sparks
	STABLE	X	
INCOMPATIBILITY (Materials to avoid) None expected			
HAZARDOUS DECOMPOSITION PRODUCTS Smoke, carbon monoxide, sulphur oxides when combusted.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
No unusual procedures	
WASTE DISPOSAL METHOD	
No special hazardous - Dispose of in accordance with Federal and State and local laws.	

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)		
Not ordinarily required		
VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General)	
PROTECTIVE GLOVES For sensitive skin		EYE PROTECTION Not ordinarily required
OTHER PROTECTIVE EQUIPMENT		

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
Packages are heavy - use caution when lifting.	
OTHER PRECAUTIONS	

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form OSHA-20
Rev. May 72

MATERIAL SAFETY DATA SHEET

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CHEMICAL NAME AND SYNONYMS

TRADE NAME AND SYNONYMS

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CHEMICAL FAMILY

FORMULA

Fiberglass Mat or Organic felt - Asphalt - Mineral Filler
& Surfacing

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS		TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS	N.A.		BASE METAL	N.A.	
CATALYST	N.A.		ALLOYS	N.A.	
VEHICLE	N.A.		METALLIC COATINGS	N.A.	
SOLVENTS	N.A.		FILLER METAL PLUS COATING OR CORE FLUX	N.A.	
ADDITIVES	N.A.		OTHERS	N.A.	
OTHERS	N.A.				
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
N.A.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	Not known to boil	SPECIFIC GRAVITY (H ₂ O = 1)	
VAPOR PRESSURE (mm Hg.)	DNA	PERCENT VOLATILE BY VOLUME (%)	Negligible
VAPOR DENSITY (AIR = 1)	DNA	EVAPORATION RATE (... = 1)	< 0.01
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Solid/no odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	FLAMMABLE LIMITS	Let	Uet
EXTINGUISHING MEDIA			
SPECIAL FIRE FIGHTING PROCEDURES			
No unusual procedures			
UNUSUAL FIRE AND EXPLOSION HAZARDS			
No unusual procedures			

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

Not applicable

EFFECTS OF OVEREXPOSURE

Minimal irritation to skin

EMERGENCY AND FIRST AID PROCEDURES

None required

SECTION VI - REACTIVITY DATA

STABILITY

UNSTABLE

CONDITIONS TO AVOID

open flame/sparks

STABLE

X

Yes

INCOMPATIBILITY (Materials to avoid)

None expected

HAZARDOUS DECOMPOSITION PRODUCTS

Smoke, carbon monoxide, sulphur oxides when combusted.

HAZARDOUS
POLYMERIZATION

MAY OCCUR

CONDITIONS TO AVOID

WILL NOT OCCUR

X

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

No unusual procedures

WASTE DISPOSAL METHOD

No special hazardous - Dispose of in accordance with Federal and State and local laws.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

Not ordinarily required

VENTILATION

LOCAL EXHAUST

Not ordinarily required

SPECIAL

MECHANICAL (General)

OTHER

PROTECTIVE GLOVES

For sensitive skin

EYE PROTECTION

Not ordinarily required

OTHER PROTECTIVE EQUIPMENT

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Packages are heavy - use caution when lifting.

OTHER PRECAUTIONS

MATERIAL SAFETY DATA SHEET

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SECTION I

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CHEMICAL NAME AND SYNONYMS

TRADE NAME AND SYNONYMS

Asphalt Roofing Products

CHEMICAL FAMILY

Fiberglass Mat or Organic felt - Asphalt - Mineral Filler
& Surfacing

SECTION II HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS		TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS	N.A.		BASE METAL	N.A.	
CATALYST	N.A.		ALLOYS	N.A.	
VEHICLE	N.A.		METALLIC COATINGS	N.A.	
SOLVENTS	N.A.		FILLER METAL PLUS COATING OR CORE FLUX	N.A.	
ADDITIVES	N.A.		OTHERS	N.A.	
OTHERS	N.A.				
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
N.A.					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	Not known to boil	SPECIFIC GRAVITY (H ₂ O = 1)	
VAPOR PRESSURE (mm Hg.)	DNA	PERCENT VOLATILE BY VOLUME (%)	Negligible
VAPOR DENSITY (AIR = 1)	DNA	EVAPORATION RATE (...)	0.01
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Solid/no odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	FLAMMABLE LIMITS	L _o	U _o
EXTINGUISHING MEDIA			
Water, CO ₂ , foam and dry chemical			
SPECIAL FIRE FIGHTING PROCEDURES			
No unusual procedures			
UNUSUAL FIRE AND EXPLOSION HAZARDS			
No unusual procedures			

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form OSHA-20
(12/79) Rev. 44 (11/87)

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipteaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME

Bird Inc.

EMERGENCY TELEPHONE NO.

(617) 668-2500

ADDRESS (Number, Street, City, State, and ZIP Code)

Washington Street, E. Walpole, MA 02032

CHEMICAL NAME AND SYNONYMS

TRADE NAME AND SYNONYMS

Asphalt Roofing Products

CHEMICAL FAMILY

FORMULA

Fiberglass Mat or Organic felt - Asphalt - Mineral Filler
& Surfacing

SECTION II HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS		TLV (Units)	ALLOYS AND METALLIC COATINGS		%	TLV (Units)
PIGMENTS	N.A.		BASE METAL	N.A.		
CATALYST	N.A.		ALLOYS	N.A.		
VEHICLE	N.A.		METALLIC COATINGS	N.A.		
SOLVENTS	N.A.		FILLER METAL PLUS COATING OR CORE FLUX	N.A.		
ADDITIVES	N.A.		OTHERS	N.A.		
OTHERS	N.A.					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES						% TLV (Units)
N.A.						

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	Not known to boil	SPECIFIC GRAVITY (H ₂ O = 1)	
VAPOR PRESSURE (mm Hg.)	DNA	PERCENT VOLATILE BY VOLUME (%)	Negligible
VAPOR DENSITY (AIR = 1)	DNA	EVAPORATION RATE (H ₂ O = 1)	0.01
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Solid/no odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	FLAMMABLE LIMITS	Low	High
EXTINGUISHING MEDIA			
SPECIAL FIRE FIGHTING PROCEDURES			
UNUSUAL FIRE AND EXPLOSION HAZARDS			

Water, CO₂, foam and dry chemical

No unusual procedures

No unusual procedures

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

Not applicable

EFFECTS OF OVEREXPOSURE

Minimal irritation to skin

EMERGENCY AND FIRST AID PROCEDURES

None required

SECTION VI - REACTIVITY DATA

STABILITY

UNSTABLE

CONDITIONS TO AVOID

open flame/sparks

STABLE

X

Yes

INCOMPATIBILITY (Materials to avoid)

None expected

HAZARDOUS DECOMPOSITION PRODUCTS

Smoke, carbon monoxide, sulphur oxides when combusted.

HAZARDOUS
POLYMERIZATION

MAY OCCUR

WILL NOT OCCUR

X

CONDITIONS TO AVOID

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

No unusual procedures

WASTE DISPOSAL METHOD

No special hazardous - Dispose of in accordance with Federal and State and local laws.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

Not ordinarily required

VENTILATION

LOCAL EXHAUST

Not ordinarily required

MECHANICAL (General)

SPECIAL

OTHER

PROTECTIVE GLOVES

For sensitive skin

EYE PROTECTION

Not ordinarily required

OTHER PROTECTIVE EQUIPMENT

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Packages are heavy - use caution when lifting.

OTHER PRECAUTIONS