



Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

Product: 3204V
 Chemical Family: Butyl Adhesive, Polyolefin Backing and a disposable Paper Liner.
 Manufacturer Information: BBA Fiberweb
 70 Old Hickory Blvd.
 Old Hickory, TN 37138
 Company Contact: David Midget
 Telephone Number: 1-800-284-2780 (M-F 8am-5pm Central Time)
 Emergency Phone Contact: Chemtrec (24 Hours)
 Emergency Phone Number: 1-800-424-9300

Section 2 - Composition

<u>CAS #</u>	<u>Component</u>	<u>Percent</u>
9003-07-0	Polypropylene	>8%
1317-65-3 in Polyolefin Film	CaCO ₃ in Polyolefin Film	<5%
Mixture	UV Stabilizer	<0.5%
Mixture	Pigment Masterbatch*	<0.3%
Mixture	Butyl Adhesive	60%-70%
Mixture	Paper Liner	20%-30%

*Based on Carbon Black (CAS # 1333-86-4): <10%; Titanium Dioxide (CAS # 13463-67-7): <1%

Component Information: This product is not hazardous according to the criteria specified in 29CFR 1910.1200 (Hazard Communication Standard). This product is considered an article and does not require an MSDS.

Section 3 – Hazards Identification

Emergency Overview

None of the components in this material are considered hazardous.

Route of Exposure-Skin

Possible mechanical irritation.

Route of Exposure-Eye

Not expected to be a problem being that this product is an inert solid.

Route of Exposure -Ingestion

Not Applicable

Route of Exposure-Inhalation

Not expected to be a problem being that this product is an inert solid.

HMIS Ratings

Health: 0 Fire: 1 Reactivity: 0 Personal Protection: A
Hazard Scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe *=Chronic Hazard

Section 4 - First Aid Measures

First Aid-Skin

Wash affected area with soap and water.

First Aid-Eye

Rinse eyes with water for at least 15 minutes. If irritation persists, contact a physician.

First Aid-Ingestion

Not Applicable

First Aid-Inhalation

Not Applicable

First Aid-Notes to Physician

No health conditions aggravated by exposure are identified. Contact the poison control center if any problem occurs.

Section 5 - Fire Fighting Measures

Flash Point: Not Applicable

Method Used: Not Applicable

Auto Ignition: Not Applicable

Flammability Classification: Not Applicable

Lower Explosive Limit (%): Not Applicable

Upper Explosive Limit (%): Not Applicable

General Fire Hazards

Solid material may burn upon extended exposure to open flames.

Hazardous Combustion Products

Upon decomposition this product may emit carbon dioxide, carbon monoxide and/or low molecular weight hydrocarbons.

Extinguishing Media

Water spray, foam, carbon dioxide, or dry chemical

Fire Fighting Equipment/Instructions

As in any fire, wear a self-contained breathing apparatus and full protective gear.

NFPA Ratings

Health: 0 Fire: 1 Reactivity: 0

Hazard Scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

Section 6 - Accidental Release Measures

Containment Procedures

Sweep waste fabric into a pile.

Clean -Up Procedures

Sweep waste fabric into a waste container and recycle, incinerate or landfill in conformity with local disposal regulations.

Evacuation Procedures

Not Applicable

Special Procedures

None

Section 7 - Handling and Storage

Handling Procedures

Avoid exposure to heat, sparks or open flames.

Storage Procedures

Store material in cool (below 140°F) warehouse that is equipped with a sprinkler system.

Ensure product is not stacked too high.

Store product off the floor to prevent water damage.

Section 8 - Exposure Controls/Personal Protection

Component Exposure Limits

Component	CAS	Exposure Limits
Polypropylene	9003-07-0	ACGIH: None Available OSHA: None Available
CaCO ₃ in Polyolefin Film UV Stabilizer	1317-65-3 in Polyolefin Film Mixture	ACGIH: 10 mg/m ³ , 8 hour TWA total dust in air OSHA: None available ACGIH TLV-TWA: None Available OSHA PEL: None Available
Pigment Masterbatch	Mixture	ACGIH TLV-TWA: 3.5mg/m ³ Total/Nuisance Dust OSHA PEL: 3.5mg/m ³ Total Dust
Butyl Adhesive	Mixture	ACGIH: None Available OSHA: None Available
Paper Liner	Mixture	ACGIH: None Available OSHA: None Available

*Based on Carbon Black (1333-86-4)

Engineering Controls

Normal room ventilation is usually adequate.

Personal Protective Equipment

Personal Protective Equipment-Eyes/Face

None usually required

Personal Protective Equipment-Skin

None usually required

Personal Protective Equipment-Respiratory

None usually required

Personal Protective Equipment-General

Follow individual plant safety rules.

Section 9 - Physical & Chemical Properties

Appearance:	Nonwoven Fabric with butyl adhesive and paper liner	Odor:	Essentially Odorless
Physical State:	Solid	pH:	Not Applicable
Vapor Pressure:	NIL	Evaporation Rate:	Not Applicable
Boiling Point:	Not Applicable	Melting Point:	>120°C
Solubility (H₂O):	Negligible	Specific Gravity:	0.9 - 0.99
Vapor Density:	Not Applicable	Percent Volatiles:	NIL
Packing Density:	Not Applicable		

Section 10 - Chemical Stability & Reactivity Information

Chemical Stability

Stable under ordinary conditions of use and storage.

Conditions to Avoid

Combustible when exposed to open flames.

Incompatibility

None Known

Hazardous Decomposition

Carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbon may be emitted upon decomposition.

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Acute and Chronic Toxicity

General Product Information

No components of this product are known to be hazardous according to the criteria specified in 29CFR1910.1200 (Hazard Communication Standard).

Component Analysis

Component	CAS	LD50/LC50
Polypropylene	9003-07-0	<u>Rat</u> ; <u>LD 50</u> ; <u>Route</u> : Intraperitoneal; <u>Dose</u> : >110mg/kg; <u>Toxic Effects</u> : lacrimation; Sense organs and special senses-ptosis; Behavioral-convulsions or effect on seizure threshold; <u>Reference</u> : Yakuri to Chiryō. Pharmacology and Therapeutics 14:1109, 1986 <u>LD50</u> ; <u>Route</u> : Intravenous; <u>Dose</u> : >99kg/mg; <u>Toxic Effects</u> : Behavioral- tremor; Lungs, Thorax, or Respiration-cyanosis; Nutritional and Gross Metabolic-body temperature decrease; <u>Reference</u> : Yakuri to Chiryō. Pharmacology and Therapeutics 14:1109, 1986.
CaCO ₃ in Polyolefin Film	1317-65-3 in Polyolefin Film	Oral, rat LD50 = 6450 mg/kg Draize test, rabbit, eye 750 ug/24H Draize test, rabbit, skin 500 ug/24H

Carcinogenicity

General Product Information

Carbon black has been evaluated by IARC as possibly carcinogenic to humans (Group 2B). NIOSH recommends that only carbon black with PAH>.1% be suspected carcinogens. The ACGIH classifies carbon black as A4, Not Classifiable as Human Carcinogen.

Epidemiology

No information available.

Neurotoxicity

No information available.

Mutagenicity

No information available.

Teratogenicity

No information available.

Other Toxicological Information

Specific toxicity testing has not been performed on this product. Hazard evaluation is based on information from similar products, raw material data, and technical literature.

Section 12 - Ecological Information

Ecotoxicity

General product Information

No available information.

Environmental Fate

No available information.

Section 13 - Disposal Considerations

US EPA Waste Number & Descriptions

General Product Information

None identified.

Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components

Disposal Instructions

Dispose of container and unused contents in accordance with federal, state and local requirements. Processing, use or contamination of this product may change the waste management options.

Section 14 - Transportation Information

Transportation Regulations

Product is not regulated for transportation.

Section 15 - Regulatory Information

US Federal Regulations **General Product Information**

Component Analysis-Federal

Component	CAS #	SARA 302 (40CFR355 Appx A)	SARA 313 (40CFR372.65)	CERCLA (40CFR302.4)
Polypropylene	9003-07-0	No	No	No
CaCO ₃ in Polyolefin Film	1317-65-3 in Polyolefin Film	No	No	No
UV Stabilizer	Mixture	No	No	No
Pigment Masterbatch	Mixture	No	No	No
Butyl Adhesive	Mixture	NK	NK	NK
Paper Liner	Mixture	NK	NK	NK

NK=Not Known

State Regulations

General Product Information

Other state regulations may apply. Check individual state requirements.

Component Analysis-State

The following components appear on one or more of the following state hazardous substances list:

Component	CAS	CA	FL	MA	MN	NJ	PA
Polypropylene	9003-07-0	No	No	No	No	No	No
CaCO ₃ in Polyolefin Film	1317-65-3 in Polyolefin Film	No	No	Yes	Yes	No	Yes
UV Stabilizer	Mixture	UK	UK	UK	UK	UK	UK
Pigment Masterbatch*	Mixture	Yes	No	Yes	Yes	Yes	Yes
Butyl Adhesive	Mixture	NK	NK	NK	NK	NK	NK
Paper Liner	Mixture	NK	NK	NK	NK	NK	NK

*Based on Carbon Black (1333-86-4)

NK=Not Known

Component Analysis-WHMIS IDL

The following components are knowingly identified under the Canadian Hazardous Products Act Ingredient Disclosure List.

Component	CAS	Minimum Concentration
Pigment Masterbatch*	Mixture	1%

*Based on Carbon Black (1333-86-4)

Additional Regulatory Information

Component Analysis-Inventory

Component	CAS	TSCA	DSL	EINECS
Polypropylene	9003-07-0	Yes	Yes	Yes (6-402)
CaCO ₃ in Polyolefin Film	1317-65-3 in Polyolefin Film	Yes	Yes	Yes(215-279-6)
UV Stabilizer	Mixture	Yes	Yes	Yes
Pigment Masterbatch	Mixture	Yes	Yes	Yes
Butyl Adhesive	Mixture	NK	NK	NK
Paper Liner	Mixture	NK	NK	NK

Section 16 - Other Information

Other Information

Material for this MSDS was taken from MSDS's for raw materials

MSDS History

Updated name 4/17/06; Corrections made to MSDS 4/26/06

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HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY USE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION, THE RESULTS TO BE OBTAINED FROM USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE.

This information and the product are furnished on the condition that the person receiving them shall make his or her own determination as to the suitability of the product for his particular purpose and on the condition that they assume the risk of his use thereof.

THIS PRODUCT IS CONSIDERED AN ARTICLE AND DOES NOT REQUIRE A MATERIAL SAFETY DATA SHEET (MSDS).

APPROVED BY: MICHAEL THOMASON



Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

Product: FLEXS
 Chemical Family: Butyl Rubber Adhesive with Hydrocarbon Tackifier, Polyolefin Backing, and a disposable Paper Liner
 Manufacturer Information: BBA Fiberweb
 70 Old Hickory Blvd.
 Old Hickory, TN 37138
 Company Contact: David Midget
 Telephone Number: 1-800-284-2780 (8am-5pm M-F Central Time)
 Emergency Phone Contact: Chemtrec (24 Hours)
 Emergency Phone Number: 1-800-424-9300

Section 2 - Composition

CAS #	Component	Percent
Mixture	Butyl Rubber Adhesive and Hydrocarbon Tackifier	55% - 85%
Mixture	Polyolefin Backing	10% - 30%
Mixture	Paper Liner	5% - 20%

Component Information: This product is not hazardous according to the criteria specified in 29CFR 1910.1200 (Hazard Communication Standard). This product is considered an article and does not require an MSDS.

Section 3 – Hazards Identification

Emergency Overview

There are no known medical conditions generally aggravated by exposure.

Route of Exposure-Skin

Repeated contact may cause irritation.

Route of Exposure-Eye

Treat as foreign object in eye

Route of Exposure -Ingestion

Non-toxic

Route of Exposure-Inhalation

Not expected to be a problem being that this product is an inert solid.

HMIS Ratings

Health: 0 Fire: 0 Reactivity: 0 Personal Protection: A

Hazard Scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe *=Chronic Hazard

Section 4 - First Aid Measures

First Aid-Skin

No toxic effects likely in ordinary use.

First Aid-Eye

Treat as foreign object in the eye.

First Aid-Ingestion

Not likely in ordinary use.

First Aid-Inhalation

Not Applicable

First Aid-Notes to Physician

No health conditions aggravated by exposure are identified. Contact the poison control center if any problem occurs.

Section 5 - Fire Fighting Measures

Flash Point: Not Known

Auto Ignition: Not Known

Method Used: Not Applicable

Flammability Classification: Not Applicable

Lower Explosive Limit (%): Not Applicable

Upper Explosive Limit (%): Not Applicable

General Fire Hazards

Solid material may burn upon extended exposure to open flames.

Hazardous Combustion Products

Upon decomposition this product may emit carbon dioxide, carbon monoxide and/or low molecular weight hydrocarbons.

Extinguishing Media

Water spray, foam, carbon dioxide, or powder.

Fire Fighting Equipment/Instructions

As in any fire, wear a self-contained breathing apparatus and full protective gear.

NFPA Ratings

Health: 0 Fire: 0 Reactivity: 0

Hazard Scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

Section 6 - Accidental Release Measures

Containment Procedures

Collect manually.

Clean -Up Procedures

Dispose as ordinary waste.

Evacuation Procedures

Not Applicable

Special Procedures

None

Section 7 - Handling and Storage

Handling Procedures

Avoid exposure to heat, sparks or open flames.

Storage Procedures

Store material in cool (below 140°F) warehouse that is equipped with a sprinkler system. Storage above 120 °F may destroy product functionality, but will not create hazardous conditions.

Ensure product is not stacked too high.

Store product off the floor to prevent water damage.

Section 8 - Exposure Controls/Personal Protection

Component Exposure Limits

None Available

Engineering Controls

Normal room ventilation is usually adequate.

Personal Protective Equipment

Personal Protective Equipment-Eyes/Face

None usually required

Personal Protective Equipment-Skin

None usually required

Personal Protective Equipment-Respiratory

None usually required

Personal Protective Equipment-General

Follow individual plant safety rules.

Section 9 - Physical & Chemical Properties

Appearance:	Polymeric backing coated with a tacky adhesive and a paper release liner	Odor:	Slight rubbery odor
Physical State:	Solid	pH:	Not Applicable
Vapor Pressure:	NIL	Evaporation Rate:	Not Applicable
Boiling Point:	Not Applicable	Percent Volatiles:	NIL
Solubility (H₂O):	Negligible	Specific Gravity:	Not Applicable
Vapor Density:	Not Applicable		
Packing Density:	Not Applicable		

Section 10 - Chemical Stability & Reactivity Information

Chemical Stability

Stable under ordinary conditions of use and storage.

Conditions to Avoid

Combustible when exposed to open flames.

Incompatibility

Strong oxidizing agents.

Hazardous Decomposition

Smoke, fumes, carbon compounds, and other decomposition products.

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Acute and Chronic Toxicity

General Product Information

No components of this product are known to be hazardous according to the criteria specified in 29CFR1910.1200 (Hazard Communication Standard).

Component Analysis

Not Applicable

Carcinogenicity

General Product Information

This material is not considered a potential carcinogen in either the NTP Annual Report on Carcinogens, IARC monographs, or by OSHA

Epidemiology

No information available.

Neurotoxicity

No information available.

Mutagenicity

No information available.

Teratogenicity

No information available.

Other Toxicological Information

Specific toxicity testing has not been performed on this product. Hazard evaluation is based on information from similar products, raw material data, and technical literature.

Section 12 - Ecological Information

Ecotoxicity

General product Information

Considered inert to the environment.

Environmental Fate

No available information.

Section 13 - Disposal Considerations

US EPA Waste Number & Descriptions

General Product Information

None identified.

Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components

Disposal Instructions

Dispose of container and unused contents in accordance with federal, state and local requirements. Processing, use or contamination of this product may change the waste management options.

Section 14 - Transportation Information

Transportation Regulations

Product is not regulated for transportation.

Section 15 - Regulatory Information

US Federal Regulations

General Product Information

No additional information.

Component Analysis-Federal

Component	CAS #	SARA 302 (40CFR355 Appx A)	SARA 313 (40CFR372.65)	CERCLA (40CFR302.4)
Butyl Rubber Adhesive and Hydrocarbon Tackifier	Mixture	UK	No	UK
Polyolefin Backing	Mixture	UK	No	UK
Paper Liner	Mixture	UK	No	UK

UK = Unknown

State Regulations

General Product Information

Other state regulations may apply. Check individual state requirements.

Component Analysis-State

The following components appear on one or more of the following state hazardous substances list:

Component	CAS	CA	FL	MA	MN	NJ	PA
Butyl Rubber Adhesive and Hydrocarbon Tackifier	Mixture	UK	UK	UK	UK	UK	UK
Polyolefin Backing	Mixture	UK	UK	UK	UK	UK	UK
Paper Liner	Mixture	UK	UK	UK	UK	UK	UK

UK = Unknown

Component Analysis-WHMIS IDL

No known components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List.

Additional Regulatory Information

Component Analysis-Inventory

Component	CAS	TSCA	DSL	EINECS
Butyl Rubber Adhesive and Hydrocarbon Tackifier	Mixture	UK	UK	UK
Polyolefin Backing	Mixture	UK	UK	UK
Paper Liner	Mixture	UK	UK	UK

UK = Unknown

Section 16 - Other Information

Other Information

Material for this MSDS was taken from MSDS's for raw materials

MSDS History

Updated name 4/17/06

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THIS PRODUCT IS CONSIDERED AN ARTICLE AND DOES NOT REQUIRE A MATERIAL SAFETY DATA SHEET (MSDS).

APPROVED BY: MICHAEL THOMASON



Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

Product: Typar Flashing RA
Chemical Family: Rubberized Asphalt Tape
Manufacturer Information: Fiberweb, Inc
70 Old Hickory Blvd.
Old Hickory, TN 37138
Company Contact: David Midget
Telephone Number: 1-800-284-2780 (8am-5pm M-F Central Time)
Emergency Phone Contact: Chemtrec (24 Hours)
Emergency Phone Number: 1-800-424-9300

Section 2 - Composition

<u>CAS #</u>	<u>Component</u>	<u>Percent</u>
8052-42-4	Rubberized Asphalt	>50%
9003-55-8	Styrene-Butadiene Adhesive	<15%
Mixture	Polyolefin Film	<25%
Mixture	Silicone Release Paper	<10%

Section 3 – Hazards Identification

Emergency Overview

Signs and symptoms of exposure: coughing or wheezing.

Route of Exposure-Skin

Possible mechanical irritation.

Route of Exposure-Eye

Not expected to be a problem being that this product is an inert solid.

Route of Exposure -Ingestion

Not Applicable

Route of Exposure-Inhalation

Not expected to be a problem being that this product is an inert solid.

HMIS Ratings

Health: 1 Fire: 1 Reactivity: 0 Personal Protection: A

Hazard Scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe *=Chronic Hazard

Section 4 - First Aid Measures

First Aid-Skin

Wash affected area with soap and water.

First Aid-Eye

Rinse eyes with water for at least 15 minutes. If irritation persists, contact a physician.

First Aid-Ingestion

Minimal toxicity; no adverse effects expected.

First Aid-Inhalation

Not expected to be a problem being that this product is an inert solid.

First Aid-Notes to Physician

No health conditions aggravated by exposure are identified. Contact the poison control center if any problem occurs.

Section 5 - Fire Fighting Measures

Flash Point: >525°F

Auto Ignition: Not Applicable

Lower Explosive Limit (%): Not Applicable

General Fire Hazards

Solid material may burn upon extended exposure to open flames.

Hazardous Combustion Products

Upon decomposition this product may emit carbon dioxide, carbon monoxide and/or low molecular weight hydrocarbons.

Extinguishing Media

Water spray, foam, carbon dioxide, or dry chemical

Fire Fighting Equipment/Instructions

As in any fire, wear a self-contained breathing apparatus and full protective gear.

NFPA Ratings

Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

Method Used: COC

Flammability Classification: Not Applicable

Upper Explosive Limit (%): Not Applicable

Section 6 - Accidental Release Measures

Containment Procedures

Sweep waste fabric into a pile.

Clean -Up Procedures

Sweep waste fabric into a waste container and recycle, incinerate or landfill in conformity with local disposal regulations.

Evacuation Procedures

Not Applicable

Special Procedures

None

Section 7 - Handling and Storage

Handling Procedures

Avoid exposure to heat, sparks or open flames.

Storage Procedures

Store material in cool (below 140°F) warehouse that is equipped with a sprinkler system.

Ensure product is not stacked too high.

Store product off the floor to prevent water damage.

Section 8 - Exposure Controls/Personal Protection

Component Exposure Limits

Component	CAS	Exposure Limits
Rubberized Asphalt	8052-42-4	ACGIH: 5.0 mg/M ³ (fumes) OSHA: 5.0 mg/M ³ (fumes)
Styrene-Butadiene Adhesive	9003-55-8	ACGIH: None Available OSHA: None Available
Polyolefin Film*	Mixture	ACGIH: 10 mg/M ³ OSHA: 15 mg/M ³ Total Dust; 5 mg/M ³ (Respirable Fraction)
Silicone Release Paper	Mixture	ACGIH: None Available OSHA: None Available

*Based on Calcium Carbonate (CAS # 471-34-1)

Engineering Controls

Normal room ventilation is usually adequate.

Personal Protective Equipment

Personal Protective Equipment-Eyes/Face

None usually required

Personal Protective Equipment-Skin

None usually required

Personal Protective Equipment-Respiratory

None usually required

Personal Protective Equipment-General

Follow individual plant safety rules.

Section 9 - Physical & Chemical Properties

Appearance:	Black Tape with Release Paper	Odor:	Slight Asphalt Odor
Physical State:	Solid	pH:	Not Applicable
Vapor Pressure:	NIL	Evaporation Rate:	Not Applicable
Boiling Point:	>600°F	Melting Point:	Not Applicable
Solubility (H₂O):	<0.01	Specific Gravity (H₂O=1):	1.09
Vapor Density:	Not Applicable	VOC g/L:	0
Packing Density:	Not Applicable		

Section 10 - Chemical Stability & Reactivity Information

Chemical Stability

Stable under ordinary conditions of use and storage.

Conditions to Avoid

Combustible when exposed to open flames. Avoid chlorine, fluorine, and other strong oxidizers.

Incompatibility

None Known

Hazardous Decomposition

Carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbon may be emitted upon decomposition.

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Acute and Chronic Toxicity

General Product Information

No additional information.

Component Analysis

No additional information.

Carcinogenicity

General Product Information

This material is not classifiable as carcinogenic or non-carcinogenic to humans.

Epidemiology

No information available.

Neurotoxicity

No information available.

Mutagenicity

No information available.

Teratogenicity

No information available.

Other Toxicological Information

Specific toxicity testing has not been performed on this product. Hazard evaluation is based on information from similar products, raw material data, and technical literature.

Section 12 - Ecological Information

Ecotoxicity

General product Information

Considered inert to the environment.

Environmental Fate

No available information.

Section 13 - Disposal Considerations

US EPA Waste Number & Descriptions

General Product Information

None identified.

Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components

Disposal Instructions

Dispose of container and unused contents in accordance with federal, state and local requirements. Processing, use or contamination of this product may change the waste management options.

Section 14 - Transportation Information

Transportation Regulations

Product is not regulated for transportation.

Section 15 - Regulatory Information

US Federal Regulations

General Product Information

No additional information.

Component Analysis-Federal

Component	CAS #	SARA 302 (40CFR355 Appx A)	SARA 313 (40CFR372.65)	CERCLA (40CFR302.4)
Rubberized Asphalt	8052-42-4	No	No	No
Styrene-Butadiene Adhesive	9003-55-8	No	No	No
Polyolefin Film	Mixture	No	No	No
Silicone Release Paper	Mixture	UK	UK	UK

UK = Unknown

State Regulations

General Product Information

Other state regulations may apply. Check individual state requirements.

Component Analysis-State

The following components appear on one or more of the following state hazardous substances list:

Component	CAS	CA	FL	MA	MN	NJ	PA
Rubberized Asphalt*	8052-42-4	No	No	Yes	Yes	Yes	Yes
Styrene-Butadiene Adhesive	9003-55-8	No	No	No	No	No	No
Polyolefin Film	Mixture	No	No	No	No	No	No
Silicone Release Paper	Mixture	UK	UK	UK	UK	UK	UK

UK = Unknown

*Information is based on the fumes released during the production of the Rubberized Asphalt (CAS # 8052-42-4)

Component Analysis-WHMIS IDL

No known components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List.

Additional Regulatory Information

Component Analysis-Inventory

Component	CAS	TSCA	DSL/NDSL	EINECS
Rubberized Asphalt	8052-42-4	Yes	Yes	Yes
Styrene-Butadiene Adhesive	9003-55-8	Yes	Yes	UK
Polyolefin Film	Mixture	Yes	Yes	Yes
Silicone Release Paper*	Mixture	UK	UK	UK

UK = Unknown

*The Silicone Release Paper is a fabricated article.

Section 16 - Other Information

Other Information

Material for this MSDS was taken from MSDS's for raw materials

MSDS History

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THIS PRODUCT IS CONSIDERED AN ARTICLE AND DOES NOT REQUIRE A MATERIAL SAFETY DATA SHEET (MSDS).

APPROVED BY: MICHAEL THOMASON



Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

Product:	Tape - 005
Chemical Family:	Polyester Tape
Manufacturer Information:	BBA Fiberweb 70 Old Hickory Blvd. Old Hickory, TN 37138
Company Contact:	David Midget
Telephone Number:	1-800-284-2780 (8am-5pm M-F Central Time)
Emergency Phone Contact:	Chemtrec (24 Hours)
Emergency Phone Number:	1-800-424-9300

Section 2 - Composition

<u>CAS #</u>	<u>Component</u>	<u>Percent</u>
25038-59-9	Polyester	40% - 60%
Mixture	Acrylic Adhesive	40% - 60%
Mixture	Polyamide Ink	<1%

Component Information: This product is not hazardous according to the criteria specified in 29CFR 1910.1200 (Hazard Communication Standard). This product is considered an article and does not require an MSDS.

Section 3 – Hazards Identification

Emergency Overview

None of the components in this material are considered hazardous.

Route of Exposure-Skin

Possible mechanical irritation. Molten material will produce thermal burns.

Route of Exposure-Eye

Not expected to be a problem being that this product is an inert solid.

Route of Exposure -Ingestion

Not Applicable

Route of Exposure-Inhalation

Not expected to be a problem being that this product is an inert solid. However, if the tape is to be slit, it seems reasonable to treat the slitter dust as a nuisance particulate.

HMIS Ratings

Health: 0 Fire: 1 Reactivity: 0 Personal Protection: A

Hazard Scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe *=Chronic Hazard

Section 4 - First Aid Measures

First Aid-Skin

If burned by molten material, cool as quickly as possible with cold water and see a physician for treatment of the burn. Note to Physicians: Burns should be treated as thermal burns. The product is a combination of polymers of low toxicity; therefore, there is no urgent need to remove them from the skin because of concern about toxicity.

First Aid-Eye

Not an expected route of entry

First Aid-Ingestion

Not Applicable

First Aid-Inhalation

Not Applicable

First Aid-Notes to Physician

No health conditions aggravated by exposure are identified. Contact the poison control center if any problem occurs.

Section 5 - Fire Fighting Measures

Flash Point: Not Applicable

Method Used: Not Applicable

Auto Ignition: Not Applicable

Flammability Classification: Not Applicable

Lower Explosive Limit (%): Not Applicable

Upper Explosive Limit (%): Not Applicable

General Fire Hazards

Solid material may burn upon extended exposure to open flames. Refer to NFPA Pamphlet No. 654, "Prevention of Fire and Dust Explosion in the Chemical, Dye, Pharmaceutical, and Plastics Industries", if this material is to be reduced or collected as a powder.

Hazardous Combustion Products

Upon incomplete decomposition this product may emit carbon dioxide, carbon monoxide and/or low molecular weight hydrocarbons.

Extinguishing Media

Water spray, foam, carbon dioxide, or dry chemical

Fire Fighting Equipment/Instructions

As in any fire, wear a self-contained breathing apparatus and full protective gear.

NFPA Ratings

Health: 0 Fire: 1 Reactivity: 0

Hazard Scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

Section 6 - Accidental Release Measures

Containment Procedures

Sweep waste fabric into a pile.

Clean -Up Procedures

Sweep or pick up waste fabric mechanically and place into a waste container and recycle, incinerate or landfill in conformity with local disposal regulations.

Evacuation Procedures

Not Applicable

Special Procedures

None

Section 7 - Handling and Storage

Handling Procedures

Avoid exposure to heat, sparks or open flames.

Storage Procedures

Store material in cool (below 140°F) warehouse that is equipped with a sprinkler system.

Ensure product is not stacked too high.

Store product off the floor to prevent water damage.

Section 8 - Exposure Controls/Personal Protection

Component Exposure Limits

Component	CAS	Exposure Limits
Polyester	25038-59-9	ACGIH: None Available OSHA: None Available
Acrylic Adhesive	Mixture	ACGIH: None Available OSHA: None Available
Polyamide Ink	Mixture	ACGIH: None Available OSHA: None Available

Engineering Controls

Normal room ventilation is usually adequate.

Personal Protective Equipment

Personal Protective Equipment-Eyes/Face

None usually required

Personal Protective Equipment-Skin

None usually required

Personal Protective Equipment-Respiratory

None should be needed if product is used as furnished. If the tape is to be slit, protection against nuisance dusts is recommended.

Personal Protective Equipment-General

Follow individual plant safety rules.

Section 9 - Physical & Chemical Properties

Appearance:	White backing and White adhesive	Odor:	Essentially Odorless
Physical State:	Solid	pH:	Not Applicable
Vapor Pressure:	Not Applicable	Vapor Density:	(Air = 1): Not Applicable
Boiling Point:	Not Applicable	Melting Point:	>165°C
Solubility (H₂O):	Negligible, <0.1%	Specific Gravity:	(Water = 1): 1.21
Evaporation Rate:	Not Applicable	Percent Volatiles:	NIL
Packing Density:	Not Applicable		

Section 10 - Chemical Stability & Reactivity Information

Chemical Stability

Stable under ordinary conditions of use and storage.

Conditions to Avoid

Combustible when exposed to open flames.

Incompatibility

None Known

Hazardous Decomposition

Carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbon may be emitted upon incomplete decomposition.

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Acute and Chronic Toxicity

General Product Information

Acute Toxicity Data: Testing has not been conducted. See Other Toxicological Information

Carcinogenicity

General Product Information

Product is considered non-hazardous.

Epidemiology

No information available.

Neurotoxicity

No information available.

Mutagenicity

No information available.

Teratogenicity

No information available.

Other Toxicological Information

Toxicological finding for the major components used to formulate these products indicate they are of low toxicity. No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH, The International Agency for Research for Cancer (IARC), U.S. National Toxicology Program (NTP) or the U.S. Occupational Safety and Health Administration (OSHA).

Section 12 - Ecological Information

Ecotoxicity

General product Information

No available information.

Environmental Fate

These products have not been tested for environmental effects. However, because of their very low solubility, the following statements regarding the expected environmental impact are believed to be valid:

These products are expected to cause little oxygen depletion in aquatic systems. They are expected to have a low potential to affect aquatic organisms, secondary waste treatment micro-organisms, and the germination and growth of plants. They are expected to be resistance to biodegradation but are unlikely to bioconcentrate. Although in a spill situation these products may be esthetically unpleasant, they are not expected to have any adverse environmental impact.

Section 13 - Disposal Considerations

US EPA Waste Number & Descriptions

General Product Information

None identified.

Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components

Disposal Instructions

Dispose of container and unused contents in accordance with federal, state and local requirements. Processing, use or contamination of this product may change the waste management options.

Section 14 - Transportation Information

Transportation Regulations

Product is not regulated for transportation.

Section 15 - Regulatory Information

US Federal Regulations

General Product Information

No additional information.

Component Analysis-Federal

Component	CAS #	SARA 302 (40CFR355 Appx A)	SARA 313 (40CFR372.65)	CERCLA (40CFR302.4)
Polyester	25038-59-9	No	No	No
Acrylic Adhesive	Mixture	UK	UK	UK
Polyamide Ink	Mixture	UK	UK	UK

UK=Unknown

State Regulations

General Product Information

Other state regulations may apply. Check individual state requirements.

Component Analysis-State

The following components appear on one or more of the following state hazardous substances list:

Component	CAS	CA	FL	MA	MN	NJ	PA
Polyester	25038-59-9	No	NK	NK	NK	No	NK
Acrylic Adhesive	Mixture	UK	UK	UK	UK	UK	UK
Polyamide Ink	Mixture	UK	UK	UK	UK	UK	UK

UK=Unknown

Component Analysis-WHMIS IDL

No components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List.

Additional Regulatory Information

Component Analysis-Inventory

Component	CAS	TSCA	DSL/NDSL	EINECS
Polyester	25038-59-9	Yes	Yes	Yes
Acrylic Adhesive	Mixture	UK	UK	UK
Polyamide Ink	Mixture	UK	UK	UK

Uk=Unknown

Section 16 - Other Information

Other Information

Material for this MSDS was taken from MSDS's for raw materials

MSDS History

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

The information in this document is believed to be correct as of the date issued.

HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY USE, OR ANY OTHER WARRANTY IS EXPERSSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION, THE RESULTS TO BE OBTAINED FROM USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE.

This information and the product are furnished on the condition that the person receiving them shall make his or her own determination as to the suitability of the product for his particular purpose and on the condition that they assume the risk of his use thereof.

THIS PRODUCT IS CONSIDERED AN ARTICLE AND DOES NOT REQUIRE A MATERIAL SAFETY DATA SHEET (MSDS).

APPROVED BY: MICHAEL THOMASON