



Safety Data Sheet

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This product is defined as an article under EU REACH. In general, articles do not require a Safety Data Sheet (SDS). Since an SDS is not required, this document does not contain all of the information that is required for substance and mixture SDSs.

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This Safety Data Sheet has been prepared in accordance with the Notification of Ministry of Industry, System of Hazardous Classification and Communication B.E.2555.

SECTION 1: Identification

1.1. Product identifier

3M Coban (with Latex) (MMK, Germany)

Product Identification Numbers

DH-9999-7880-1 DH-9999-7881-9 DH-9999-7882-7 DH-9999-7883-5

1.2. Recommended use and restrictions on use

Recommended use

Compression Therapy

1.3. Supplier's details

ADDRESS: 3M Thailand Limited, 14th Floor The PARQ Building, 88 Ratchadaphisek Road, Klong Toei, Klong Toei, Bangkok 10111
Telephone: 66 0 2666 3666
E Mail: 3MThailand@mmm.com
Website: <http://www.3M.com/TH>

1.4. Emergency telephone number

66-2-2608577

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

This product is considered to be an article and is exempt from GHS classification.

2.2. Label elements

Signal word

Not applicable.

Symbols

Not applicable.

Pictograms

Not applicable.

2.3. Other hazards

None known

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt
NATURAL RUBBER	9006-04-6	40 - 70
POLY(ETHYLENE TEREPHTHALATE)	25038-59-9	10 - 40
Acrylic Polymer	None	1 - 30
Elastic filament	Trade Secret	1 - 10
Non-Rubber Solids	None	0.5 - 3
C.I. PIGMENT YELLOW 42	51274-00-1	< 1.5
Carbon Black	1333-86-4	< 1.5
Pigment	Trade Secret	< 1.5

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

No need for first aid is anticipated.

Skin Contact:

No need for first aid is anticipated.

Eye Contact:

No need for first aid is anticipated.

If Swallowed:

No need for first aid is anticipated.

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

No critical symptoms or effects. See Section 11.1, information on toxicological effects.

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

Not applicable.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

5.3. Special protective actions for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus,

bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Not applicable.

6.2. Environmental precautions

Not applicable.

6.3. Methods and material for containment and cleaning up

Not applicable.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions.

7.2. Conditions for safe storage including any incompatibilities

Store away from acids. Store away from oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
Carbon Black	1333-86-4	ACGIH	TWA(inhalable fraction):3 mg/m ³	
NATURAL RUBBER	9006-04-6	ACGIH	TWA(as allergenic protein, inhalable fraction):0.0001 mg/m ³	Dermal/Respiratory Sensitizer
Pigment	Trade Secret	ACGIH	TWA:10 mg/m ³	

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Not applicable.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Eye protection not required.

Skin/hand protection

No chemical protective gloves are required.

Respiratory protection

Respiratory protection is not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid
Specific Physical Form:	Non-Woven Material
Color	Blue, Brown-Tan, Red, White
Odor	Neutral
Odor threshold	<i>Not Applicable</i>
pH	<i>Not Applicable</i>
Melting point/Freezing point	<i>No Data Available</i>
Boiling point/Initial boiling point/Boiling range	<i>Not Applicable</i>
Flash Point	<i>No Data Available</i>
Evaporation rate	<i>Not Applicable</i>
Flammability (solid, gas)	Not Classified
Flammable Limits(LEL)	<i>No Data Available</i>
Flammable Limits(UEL)	<i>No Data Available</i>
Vapor Pressure	<i>Not Applicable</i>
Vapor Density and/or Relative Vapor Density	<i>Not Applicable</i>
Density	<i>No Data Available</i>
Relative Density	<i>No Data Available</i>
Water solubility	<i>Not Applicable</i>
Solubility- non-water	<i>Not Applicable</i>
Partition coefficient: n-octanol/ water	<i>Not Applicable</i>
Autoignition temperature	<i>No Data Available</i>
Decomposition temperature	<i>Not Applicable</i>
Viscosity/Kinematic Viscosity	<i>No Data Available</i>
Volatile Organic Compounds	
Percent volatile	<i>Not Applicable</i>
VOC Less H2O & Exempt Solvents	

Nanoparticles

This material contains nanoparticles.

SECTION 10: Stability and reactivity

10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Sparks and/or flames

10.5. Incompatible materials

Strong acids

Strong oxidizing agents

10.6. Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
Hydrocarbons	Heat
Carbon monoxide	Heat
Carbon dioxide	Heat

Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, or reaction with another material.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects**Signs and Symptoms of Exposure**

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:

No health effects are expected.

Skin Contact:

Contact with the skin during product use is not expected to result in significant irritation.

Eye Contact:

Contact with the eyes during product use is not expected to result in significant irritation.

Ingestion:

No health effects are expected.

Additional Information:

This product, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
NATURAL RUBBER	Dermal		LD50 estimated to be > 5,000 mg/kg
NATURAL RUBBER	Ingestion		LD50 estimated to be > 5,000 mg/kg
POLY(ETHYLENE TEREPHTHALATE)	Dermal		LD50 estimated to be > 5,000 mg/kg

POLY(ETHYLENE TEREPHTHALATE)	Ingestion	Rat	LD50 > 5,000 mg/kg
Carbon Black	Dermal	Rabbit	LD50 > 3,000 mg/kg
Carbon Black	Ingestion	Rat	LD50 > 8,000 mg/kg
Pigment	Dermal	Rabbit	LD50 > 10,000 mg/kg
Pigment	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 6.82 mg/l
Pigment	Ingestion	Rat	LD50 > 10,000 mg/kg
C.I. PIGMENT YELLOW 42	Dermal		LD50 estimated to be > 5,000 mg/kg
C.I. PIGMENT YELLOW 42	Ingestion	Rat	LD50 > 10,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
NATURAL RUBBER	Human	Mild irritant
POLY(ETHYLENE TEREPHTHALATE)	In vitro data	No significant irritation
Carbon Black	Rabbit	No significant irritation
Pigment	Rabbit	No significant irritation
C.I. PIGMENT YELLOW 42	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
NATURAL RUBBER	Rabbit	No significant irritation
POLY(ETHYLENE TEREPHTHALATE)	Human	No significant irritation
Carbon Black	Rabbit	No significant irritation
Pigment	Rabbit	No significant irritation
C.I. PIGMENT YELLOW 42	Rabbit	No significant irritation

Sensitization:

Skin Sensitization

Name	Species	Value
NATURAL RUBBER	Human	Sensitizing
POLY(ETHYLENE TEREPHTHALATE)	Human	Not classified
Pigment	Human and animal	Not classified
C.I. PIGMENT YELLOW 42	Human and animal	Not classified

Respiratory Sensitization

Name	Species	Value
NATURAL RUBBER	Human	Sensitizing

Germ Cell Mutagenicity

Name	Route	Value
NATURAL RUBBER	In Vitro	Some positive data exist, but the data are not sufficient for classification
POLY(ETHYLENE TEREPHTHALATE)	In Vitro	Not mutagenic
Carbon Black	In Vitro	Not mutagenic
Carbon Black	In vivo	Some positive data exist, but the data are not sufficient for classification
Pigment	In Vitro	Not mutagenic
Pigment	In vivo	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Carbon Black	Dermal	Mouse	Not carcinogenic
Carbon Black	Ingestion	Mouse	Not carcinogenic
Carbon Black	Inhalation	Rat	Carcinogenic
Pigment	Ingestion	Multiple animal species	Not carcinogenic
Pigment	Inhalation	Rat	Carcinogenic
C.I. PIGMENT YELLOW 42	Inhalation	Rat	Not carcinogenic

Reproductive Toxicity**Reproductive and/or Developmental Effects**

For the component/components, either no data are currently available or the data are not sufficient for classification.

Target Organ(s)**Specific Target Organ Toxicity - single exposure**

For the component/components, either no data are currently available or the data are not sufficient for classification.

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
POLY(ETHYLENE TEREPHTHALATE)	Ingestion	heart skin endocrine system bone, teeth, nails, and/or hair hematopoietic system liver immune system muscles nervous system eyes kidney and/or bladder respiratory system	Not classified	Rat	NOAEL Not available	13 weeks
Carbon Black	Inhalation	pneumoconiosis	Not classified	Human	NOAEL Not available	occupational exposure
Pigment	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 0.01 mg/l	2 years
Pigment	Inhalation	pulmonary fibrosis	Not classified	Human	NOAEL Not available	occupational exposure
C.I. PIGMENT YELLOW 42	Inhalation	respiratory system liver kidney and/or bladder	Not classified	Rat	NOAEL 0.2 mg/l	14 days

Aspiration Hazard

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labeling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity**Acute aquatic hazard:**

Not acutely toxic to aquatic life by GHS criteria.

Chronic aquatic hazard:

Not chronically toxic to aquatic life by GHS criteria.

No product test data available

Material	Cas #	Organism	Type	Exposure	Test Endpoint	Test Result
NATURAL RUBBER	9006-04-6		Data not available or insufficient for classification			N/A
POLY(ETHYLENE TEREPHTHALATE)	25038-59-9		Data not available or insufficient for classification			N/A
C.I. PIGMENT YELLOW 42	51274-00-1	Activated sludge	Estimated	3 hours	EC50	>=10,000 mg/l
C.I. PIGMENT YELLOW 42	51274-00-1	Water flea	Experimental	48 hours	No tox obs at lmt of water sol	>100 mg/l
C.I. PIGMENT YELLOW 42	51274-00-1	Zebra Fish	Experimental	96 hours	No tox obs at lmt of water sol	>100 mg/l
Carbon Black	1333-86-4	Activated sludge	Experimental	3 hours	EC50	>=100 mg/l
Carbon Black	1333-86-4		Data not available or insufficient for classification			N/A
Pigment	Trade Secret	Activated sludge	Experimental	3 hours	NOEC	>=1,000 mg/l
Pigment	Trade Secret	Diatom	Experimental	72 hours	EC50	>10,000 mg/l
Pigment	Trade Secret	Fathead Minnow	Experimental	96 hours	LC50	>100 mg/l
Pigment	Trade Secret	Water flea	Experimental	48 hours	EC50	>100 mg/l
Pigment	Trade Secret	Diatom	Experimental	72 hours	NOEC	5,600 mg/l

12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
NATURAL RUBBER	9006-04-6	Data not availbl-insufficient			N/A	
POLY(ETHYLENE TEREPHTHALATE)	25038-59-9	Data not availbl-insufficient			N/A	
C.I. PIGMENT YELLOW 42	51274-00-1	Data not availbl-insufficient			N/A	
Carbon Black	1333-86-4	Data not availbl-insufficient			N/A	

Pigment	Trade Secret	Data not available or insufficient			N/A	
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12.3. Bioaccumulative potential

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
NATURAL RUBBER	9006-04-6	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
POLY(ETHYLENE TEREPHTHALATE)	25038-59-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
C.I. PIGMENT YELLOW 42	51274-00-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Carbon Black	1333-86-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Pigment	Trade Secret	Experimental BCF-Carp	42 days	Bioaccumulation Factor	9.6	Non-standard method

12.4. Mobility in soil

Please contact manufacturer for more details

12.5 Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Prior to disposal, consult all applicable authorities and regulations to insure proper classification. Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. If no other disposal options are available, waste product may be placed in a landfill properly designed for industrial waste.

SECTION 14: Transport Information

Transportation classifications are provided as a customer service. As for shipping, YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M's transportation classifications are based on product formulation, packaging, 3M policies and 3M's understanding of applicable current regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling or marking requirements. The above information is only for reference. If you are shipping by air or ocean, YOU are advised to check & meet applicable regulatory requirements.

SECTION 15: Regulatory information

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

Global inventory status

Contact 3M for more information.

SECTION 16: Other information

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

3M Myanmar SDSs are available at <http://www.3M.com/TH>