

Material Safety Data Sheet

Material Name: Vinyl Coated Fabrics and Films

ID: GCC-001

*** Section 1 - Chemical Product and Company Identification ***

Chemical Name: Polyvinyl chloride (PVC)

Product Use: Coated fabrics and wall coverings

Synonyms: None

Manufacturer Information

OMNOVA Solutions Inc.

Decorative & Building Products Division

133 Yorkville Road East P.O. Box 191

Columbus, MS 39703

Phone: (662) 327-1522

Fax: (662) 329-7776

Emergency # 1-800-424-9300 (CHEMTREC)

NOTE: CHEMTREC telephone number is to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to customer service.

*** Section 2 - Composition / Information on Ingredients ***

CAS #	Component	Percent
9002-86-2	PVC (Chloroethylene, Polymer)	<50
68332-61-6	Hexanedioic acid, polymer with 1,4-butanediol and 1,2-propanediol, 2-ethylhexyl ester	20-40
68515-48-0	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	20-40
1317-65-3	Calcium Carbonate	<15
7439-92-1	Lead	0-4
7440-36-0	Antimony	0-3
7758-97-6	Lead chromate	0-1

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Phthalate esters, Lead compounds, Chromates, Chromium (VI) (18540-29-9), Chromium (VI) compounds (certain water insoluble forms), Chromium (7440-47-3).

Component Information/Information on Non-Hazardous Components

Exact composition of products will vary with each individual product. All ingredients listed above may not always be included in final product. This product has been evaluated under criteria specified in 29 CFR 1910.1200 (Hazard Communication).

*** Section 3 - Hazards Identification ***

Emergency Overview

Product is a solid plastic film. During normal use, this product is not expected to be a hazard. The metallic elements contained in the film are not expected to be biologically available if ingested or inhaled. Thermal processing fumes may cause irritation to the eyes, skin and respiratory system. Toxic fumes may be released upon combustion.

Potential Health Effects: Eyes

During normal use, no significant eye irritation can be expected from contact with this product. Eye contact with dusts may cause irritation.

Potential Health Effects: Skin

This product is not expected to cause irritation. Contact with dusts or thermal processing fumes may cause irritation.

Potential Health Effects: Ingestion

Ingestion of this product is unlikely, however, ingestion may cause nausea, vomiting and diarrhea. The metallic elements contained in this product are not expected to be biologically available. However, ingestion of large amounts may produce toxicity due to lead ingestion.

Potential Health Effects: Inhalation

Dusts may cause irritation to nose, throat and respiratory system. Inhalation of thermal processing fumes may cause respiratory tract irritation. Extreme thermal processing may release vinyl chloride which can cause cancer.

HMIS Ratings: Health: 1* Fire: 1 Reactivity: 0 Pers. Prot.: See section 8 of this MSDS

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

*** Section 4 - First Aid Measures ***

First Aid: Eyes

In case of contact with dusts or particulate matter, immediately flush eyes with plenty of water for 15 minutes.

First Aid: Skin

For skin contact, wash with soap and water. If irritation develops, get medical attention.

First Aid: Ingestion

If the material is swallowed, get immediate medical attention or advice.

First Aid: Inhalation

If inhalation of gas/fume/vapor/dust/mist from the material is excessive (air concentration is greater than the TLV or health effects are noticed), immediately remove the affected person(s) to fresh air.

First Aid: Notes to Physician

Provide general supportive measures and treat symptomatically.

*** Section 5 - Fire Fighting Measures ***

Flash Point: Not available

Method Used: Not available

Upper Flammable Limit (UFL): Not available

Lower Flammable Limit (LFL): Not available

Auto Ignition: Not applicable

Flammability Classification: Non-flammable

Rate of Burning: Not available

General Fire Hazards

Product is a solid material which will burn with a slow, smoldering flame upon heating to high temperatures.

Hazardous Combustion Products

Decomposition may yield hydrogen chloride, carbon monoxide, carbon dioxide and low molecular weight hydrocarbons.

Extinguishing Media

Dry chemical, foam, carbon dioxide, water fog.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective clothing including self contained breathing apparatus. Firefighters should avoid inhaling any combustion products.

NFPA Ratings: Health: 1 Fire: 1 Reactivity: 0 Other:

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

*** Section 6 - Accidental Release Measures ***

Containment Procedures

Due to the physical nature of this material, containment is not necessary.

Clean-Up Procedures

Reroll, sweep, shovel, or vacuum up material. Place in appropriate container for disposal.

Evacuation Procedures

Evacuation should not be necessary.

Special Procedures

*** Section 7 - Handling and Storage ***

Handling Procedures

Do not breathe dust. Avoid breathing fumes if this product is used at high temperatures. Use this product with adequate ventilation.

Storage Procedures

Keep this material in a cool, well-ventilated place. Store below 120° F to minimize volatilization of plasticizer.

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*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines

A: General Product Information

Follow all applicable exposure limits.

ACGIH exposure limit for mixed phthalate esters is 5mg/m³, 8 hr TWA.

B: Component Exposure Limits

Calcium Carbonate (1317-65-3)

ACGIH: 10 mg/m³ TWA (The value is for total dust containing no asbestos and <1% crystalline silica)

OSHA: total dust: 15 mg/m³ TWA; respirable fraction: 5 mg/m³ TWA

NIOSH: total: 10 mg/m³ TWA; respirable dust: 5 mg/m³ TWA

Lead (7439-92-1)

ACGIH: 0.05 mg/m³ TWA

OSHA: as Pb: 50 ug/m³ TWA PEL; 30 ug/m³ action level; Poison (see 29 CFR 1910.1025)

NIOSH: as Pb: 0.100 mg/m³ TWA; see Appendix C for supplementary exposure limits

Antimony (7440-36-0)

ACGIH: as Sb: 0.5 mg/m³ TWA

OSHA: as Sb: 0.5 mg/m³ TWA

NIOSH: 0.5 mg/m³ TWA

Lead chromate (7758-97-6)

ACGIH: as Cr: 0.012 mg/m³ TWA; as Pb: 0.05 mg/m³ TWA

OSHA: (as Cr): 1 mg/m³ TWA (related to Chromium)

Chromic acid and chromates: C 0.1 mg/m³ (related to Chromates)

NIOSH: as CrO₃: 0.001 mg/m³ TWA; NIOSH Potential Occupational Carcinogen - see Appendix A; see Appendix C for supplementary exposure limits (related to Chromates)

Engineering Controls

Use general ventilation.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear safety glasses during processing.

Personal Protective Equipment: Skin

Wear impervious gloves during processing.

Personal Protective Equipment: Respiratory

If ventilation is not sufficient to effectively remove and prevent buildup of dusts or processing fumes, appropriate

NIOSH/MSHA approved respiratory protection must be provided.

Personal Protective Equipment: General

Use good industrial hygiene practices in handling this material.

*** Section 9 - Physical & Chemical Properties ***

Appearance:	Plastic film	Odor:	Characteristic
Physical State:	Solid	pH:	Not applicable
Vapor Pressure:	Not applicable	Vapor Density:	Not applicable
Boiling Point:	Not applicable	Melting Point:	Not applicable
Solubility (H₂O):	Not soluble	Specific Gravity:	1.20 - 1.70
Freezing Point:	Not applicable	Percent Volatile:	<2.0
Molecular Weight:	Mixture		

Physical Properties: Additional Information

None available.

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

Stable

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Chemical Stability: Conditions to Avoid

Avoid temperatures above 250° F.

Incompatibility

This product is not reactive.

Hazardous Decomposition

Decomposition may yield hydrogen chloride, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons.

Hazardous Polymerization

Hazardous polymerization will not occur.

* * * Section 11 - Toxicological Information * * *

Acute Toxicity

A: General Product Information

No data available for the product. Significant adverse health effects would not be anticipated with normal use. However, thermal processing of the product can emit fumes and vapors which may cause eye, skin, and respiratory system irritation. The metallic elements contained in this product are not expected to be biologically available; however, ingestion of large amounts may produce toxicity. Acute lead toxicity may produce symptoms including nausea, vomiting, abdominal cramping, neuritis, and body aches. Chronic exposure to lead may cause central nervous system and peripheral nervous system effects including: behavioral disturbances, sleep disturbances, fatigue, vertigo, headache, poor memory, tremor, and depression. Lead may damage the blood forming system and produce anemia. Lead is also toxic to the kidney and can have serious effects on reproductive function in both males and females.

B: Component Analysis - LD50/LC50

Antimony (7440-36-0)

Oral LD50 Rat : 7 gm/kg

Lead chromate (7758-97-6)

Oral LD50 Mouse : >12 gm/kg

Carcinogenicity

A: General Product Information

No carcinogenicity data available for this product. Thermal processing of polyvinyl chloride may release vinyl chloride vapors. Vinyl chloride is a human carcinogen and has produced tumors of the liver, brain, lungs, blood, and digestive system. Product contains lead chromate which is a suspect human carcinogen. However, the metallic elements contained in this product are not expected to be biologically available.

B: Component Carcinogenicity

PVC (Chloroethylene, Polymer) (9002-86-2)

IARC: Monograph 19, Supplement 7; 1987 (Group 3 (not classifiable))

Lead (7439-92-1)

ACGIH: elemental, as Pb; A3 - animal carcinogen

OSHA: as Pb: 50 ug/m³ TWA PEL; 30 ug/m³ action level; Poison (see 29 CFR 1910.1025)

IARC: Monograph 23, Supplement 7; 1987 (and lead compounds; evaluated as a group) (Group 2B (sufficient animal data))

Lead chromate (7758-97-6)

ACGIH: as Cr: A2-suspected human carcinogen; as Pb: A2-suspected human carcinogen

NIOSH: occupational carcinogen (related to Chromates)

NTP: Known Carcinogen; (under Chromium and Certain Chromium Compounds) (Select Carcinogen)

IARC: Monograph 49; 1990 (Chromium (VI) compounds; evaluated as a group) (related to Chromium (VI)) (Group 1 (carcinogenic to humans))

Epidemiology

No information available for the product.

Neurotoxicity

No data available for this product.

Mutagenicity

No data available for this product. Lead, antimony and chromium VI compounds have been reported to cause chromosomal aberrations in bacterial and/or mammalian cells. However, the metallic elements in this product are not expected to be biologically available.

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Teratogenicity

No data available for this product. Lead can affect both the male and female reproductive organs as well as egg and sperm production and development. Lead can also cause can also affect neurodevelopment in children from both prenatal and postnatal exposures. Chromium VI compounds have caused birth defects and affected fertility in laboratory animals. However, the metallic elements of this product are not expected to be biologically available.

Other Toxicological Information

No information available.

* * * Section 12 - Ecological Information * * *

Ecotoxicity

A: General Product Information

This product, if released into the environment, would be expected to produce significant toxicity to aquatic ecosystems.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Lead chromate (7758-97-6)

LC50 (96 hr) fathead minnow: 36.2 mg/L.; LC50 (96 hr) striped catfish: 200 mg/L. (related to Chromium (VI))

Environmental Fate

No data is available concerning environmental fate, biodegradation or bioconcentration for this product.

* * * Section 13 - Disposal Considerations * * *

US EPA Waste Number & Descriptions

A: General Product Information

Waste should be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

B: Component Waste Numbers

Lead (7439-92-1)

RCRA: waste number D008; regulatory level = 5.0 mg/L

Lead chromate (7758-97-6)

RCRA: waste number D007; regulatory level = 5.0 mg/L (related to Chromium)

Disposal Instructions

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

* * * Section 14 - Transportation Information * * *

US DOT Information

Shipping Name: Not regulated as hazardous

Hazard Class: Not applicable

UN/NA #: Not applicable

Packing Group: Not applicable

Required Label(s): None

Additional Info.: None

International Transportation Regulations

Not regulated as dangerous goods.

* * * Section 15 - Regulatory Information * * *

US Federal Regulations

A: General Product Information

No additional information.

B: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

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Lead (7439-92-1)

SARA 313: form R reporting required for 0.1% de minimis concentration

CERCLA: final RQ = 10 pounds (4.54 kg)

Antimony (7440-36-0)

SARA 313: form R reporting required for 1.0% de minimis concentration

CERCLA: final RQ = 5000 pounds (2270 kg) (no reporting of releases of this hazardous substance is required if the diameter of the pieces of solid metal released is equal to or exceeds 0.004 inches)

Lead chromate (7758-97-6)

SARA 313: form R reporting required for 0.1% de minimis concentration (related to Chromium (VI))

CERCLA: final RQ = 5000 pounds (2270 kg) (no reporting of releases of this hazardous material is required if the diameter of the pieces of the solid metal released is equal to or exceeds 0.004 inches) (related to Chromium)

State Regulations

A: General Product Information

Other state regulations may apply. Check individual state requirements.

B: Component Analysis - State

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

Component	CAS #	CA	FL	MA	MN	NJ	PA
1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich (¹ related to Phthalate esters)	68515-48-0	Yes¹	No	No	No	No	Yes¹
Hexanedioic acid, polymer with 1,4-butanediol and 1,2-propanediol, 2-ethylhexyl ester (¹ related to Phthalate esters)	68332-61-6	Yes¹	No	No	No	No	Yes¹
Calcium Carbonate	1317-65-3	No	No	Yes	Yes	No	Yes
Lead	7439-92-1	Yes	Yes	Yes	Yes	Yes	Yes
Antimony	7440-36-0	Yes	Yes	Yes	Yes	Yes	Yes
Lead chromate (¹ related to Chromium)	7758-97-6	Yes	Yes¹	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects.

Other Regulations

A: General Product Information

All components are listed on the TSCA inventory.

B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
PVC (Chloroethylene, Polymer)	9002-86-2	Yes	Yes	No
1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	68515-48-0	Yes	Yes	Yes
Hexanedioic acid, polymer with 1,4-butanediol and 1,2-propanediol, 2-ethylhexyl ester	68332-61-6	Yes	Yes	No
Calcium Carbonate	1317-65-3	Yes	No	Yes
Lead	7439-92-1	Yes	Yes	Yes
Antimony	7440-36-0	Yes	Yes	Yes
Lead chromate	7758-97-6	Yes	Yes	Yes

C: Component Analysis - WHMIS IDL

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

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Component	CAS #	Minimum Concentration
Lead	7439-92-1	0.1% item 937 (1435)
Antimony	7440-36-0	1% item 122 (251)
Lead chromate	7758-97-6	0.1% item 934 (550)

*** Section 16 - Other Information ***

Other Information

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; NFPA = National Fire Protection Association; HMIS = Hazardous Material Identification System; CERCLA = Comprehensive Environmental Response, Compensation and Liability Act; SARA = Superfund Amendments and Reauthorization Act

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This is the end of MSDS # GCC-001