



SAFETY DATA SHEET ⁽¹⁾

SECTION 1 - IDENTIFICATION

PRODUCT (As Used on Label and List)

Gemini Woven (GW)

Other means of identification: Not available

Recommended use: As Friction Material

Restrictions on use: None

Manufacturer: Scan-Pac Manufacturing Inc.

Address: N84W13480 Leon Rd., Menomonee Falls, WI 53051.

Telephone number: (262) 255-2320

Emergency phone number: (262) 506-4853

Prepared By: Research & Development Department

SECTION 2 – HAZARD(S) IDENTIFICATION

Classification of hazard: Solid friction materials (identified in Section 1) as shipped meet the OSHA definition of “Articles” and are considered “non-hazardous” under normal handling conditions.

Signal Word: None

Pictograms : None

Hazard statement: Processing operations of solid friction materials (machining, riveting, drilling, or over-heating, etc.) can produce airborne particles or fumes. Over exposure to these dusts should be considered hazardous.

Inhalation: Dust may cause irritation.

Skin: Prolonged skin contact may cause skin sensitization, irritation and/or dermatitis.

Eye: Dust may cause irritation and redness.

Ingestion: Ingestion of dust may cause irritation, nausea, vomiting and diarrhea.

Precautionary statement: Repeated inhalation of dust over time may cause fibrotic lung disease and increased risk of sinus and respiratory cancer. Long-term dust inhalation may also harm the nervous, gastrointestinal, renal and hematological systems. Use personal protection gears such as safety glasses, gloves and dust respirator while processing the friction materials.

Hazard not otherwise classified: N/A

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS²

All products identified in Section 1 are mixtures of the following **Asbestoses free** ingredients in a resin bonded form. Hazards normally associated with pure dusts of the listed ingredients should be reduced significantly in normal use and service of the product. Some products do not contain all the components listed.

INGREDIENT	CAS #	%WEIGHT [@]
Acrylic Fibers	24980-62-9	>1.0
Brass		>1.0
Copper	7440-50-8	>0.6
Zinc	7440-66-6	>0.3
Lead	7439-92-1	<0.01
Chromium (III) Oxide	1308-38-9	>1.0
Iron Oxide	1309-37-1	>1.0
Phenolic Resin Cured	9003-35-4	>1.0
Synthetic Vitreous Fibers	65997-17-3	>1.0

[@] Exact Percentage (concentration) of composition withheld as a trade secret is required.

SECTION 4 – FIRST AID MEASURERS

Emergency and First Aid Procedures: Should not be required in normal handling of the products. However, processing operations (machining, riveting, drilling, or over heating etc) can produce airborne particles or fumes. Over exposure to these dusts should be considered hazardous

Inhalation: Dust may cause irritation. Move to fresh air. Seek medical attention if irritation persists.

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable at normal temperatures and storage conditions

Condition to Avoid: NA/NK

Incompatibility (Materials to Avoid): NK

Conditions to Avoid: NA/NK

Hazardous Polymerization: Will not occur. This product is fully cured.

Hazardous Decomposition or By-Products: Oxides of carbon, nitrogen, hydrocarbons, ammonia and other trace organic compounds.

SECTION 11 - TOXICOLOGICAL INFORMATION

The toxicological information given below are primarily associated with airborne particles or fumes that may be generated from processing operations (machining, riveting, drilling, or over heating etc).

Route(s) of Entry:

Inhalation: Yes

Skin: NK/NA

Ingestion: NK/NA

Health Hazards (Acute and Chronic):

Synthetic Vitreous fiber may cause mechanical irritation of mouth, nose, throat, eye, and skin.

Carcinogenicity ⁽³⁾:

NTP: No

IRAC Regulated: No

OSHA Regulated: No

Signs and symptoms of Exposure:

Synthetic Vitreous Fibers: Itching and possible irritation of upper respiratory tract.

Medical Conditions Generally Aggravated By Exposure: NK/NA

SECTION 12 - ECOLOGICAL INFORMATION

No ecological data available. Product is Article.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste should be disposed of in accordance with all applicable Federal, State and Local regulations.

SECTION 14 - TRANSPORTATION INFORMATION

Proper Shipping Name:	Not regulated
Hazard Class:	N/A
Identification Number:	N/A
Packing Group:	N/A
Shipping Label:	None
Additional Marking Requirement:	None

SECTION 15 - REGULATORY INFORMATION

U.S. TSCA: All chemicals used in the manufacture of this product are listed on the U.S. Toxic Substances Control Act (TSCA) Inventory.

California Proposition 65: This product contains carbon black and may contain silica, ingredients known to the State of California to cause cancer, birth defects or other reproductive effects.

SARA Title III- Section 313 Supplier Notification: This product contains the following chemicals subject to SARA Title III/CERCLA “reportable quantities” (RQs) and/or

“threshold planning quantities” (TPQs) and/or are classified as “Toxic Chemicals” under the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and 40 CFR 372.

Ingredient	CAS #	% Weight
Zinc and Compounds	7440-66-6, 1314-13-2, 1314-98-3	>1
Chromium (III) compounds	1308-38-9	>1
Copper	7440-50-8	>1

RCRA Hazardous Waste Code: N/A

CERCLA Hazardous Substances: This product contains chemicals which in the raw state are classified as CERCLA Hazardous Substances.

OSHA: OSHA has not developed standards other than PELs specific to its constituents.

WHMIS Classification: Not Available.

SECTION 16 - OTHER INFORMATION

Abbreviations:

CAS #: Chemical Abstract Services Number

OSHA PEL: U.S. Occupational Safety and Health Administration Permissible
Exposure Limits

ACGIH TLV: American Conference of Governmental Industrial Hygienists Threshold
Limit Value (2017)

Fibers/cc: Fibers per cubic centimeter of sampled air.

Mg/m³: Milligrams of contaminant per cubic meter of sampled air, on a weight-to-
volume basis

N/A: Not Applicable

N/K: Not Known

Mppcf: Millions of particles per cubic foot of sampled air

A3: ACGIH has classified the compound as a confirmed animal carcinogen with unknown relevance to humans

NIOSH: National Institute of Occupational Safety and Health

IARC: International Agency for Research on Cancer

NTP: National Toxicology Program

HEPA: High-efficiency particulate air

HMIS: Hazardous Materials Identification System

RCRA: Resource Conservation and Recovery Act

TWA: Time Weighted Average (i.e., 8 hours)

ISSUED BY: SCAN-PAC MANUFACTURING INC.

ISSUE DATE: 03/06/2018

Notes:

(1) Notwithstanding the preparation and delivery of this Material Safety Data Sheet, Scan-Pac Mfg., Inc's position is that the products identified herein meet the definition of an "article" and are exempt from the Hazard Communication Standard, 29 C.F.R. 191031200.

Exact formulations of the product identified herein are considered proprietary and confidential and will not be revealed except in accordance with the Hazard Communication Standard.

This Safety Data Sheet has been prepared solely for the purpose of complying with 29 C.F.R. 1910.1200, if deemed necessary be the recipient hereof. The information given herein is based, in part, on data supplied by various chemical manufacturers. While the information set forth herein is believed to be accurate, Scan-Pac Mfg., Inc. makes no representation or warranty as to its accuracy or completeness and said information is furnished independently of any sale of the products identified herein. Scan-Pac Mfg., Inc. shall in no event be responsible for any damages of whatever nature, directly or indirectly, resulting from the publication or use or reliance upon data contained herein. No express or implied warranties of merchantability or fitness for use, with respect to the products or data herein, is made hereunder.

(2) This section lists the ingredients which have been determined, for the purpose of 29 C.F.R. 1910.1200, to be health hazards and which comprise 1% or greater of the composition (except that chemicals identified as carcinogens are listed if the concentrations are 0.1% or greater). In addition, this section lists the ingredients, which have been determined for purpose of 29 C.F.R. 1910.1200, to present a physical hazard when present in the mixture. The ingredients in the products identified should be resin bonded and hazards normally associated with pure dusts of the listed ingredients should be reduced significantly in normal use and service of the product. All products identified herein contain asbestos free material and some products will not contain all hazardous components listed.

(3) Indicates whether the chemical is listed in the National Toxicology Program (NTP) Annual Report on Carcinogens or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs or by OSHA.
