

## MATERIAL SAFETY DATA SHEET

### Section 1. Identification of the Substance/Preparation and the Company/Undertaking

Product Name: Fanapart High Strength Padding Adhesive  
  
 Manufacturer: Appvion, Inc.  
 825 East Wisconsin Avenue  
 Appleton, WI 54911 USA  
  
 Information Phone: 920-991-8875  
 Emergency Phone: 800-424-9300 (Chemtrec) 1-703-527-3887 for International Calls  
 E-mail: ehsps@appletonideas.com  
 Date of Preparation/Revision: May 30, 2013  
 Product Use: Adhesive used in the production of pads of paper.

### Section 2. Hazards Identification

#### Emergency Overview

Flammable liquid (FP=107 -110°F), however, does not sustain combustion. May cause eye irritation. Prolonged skin contact may cause irritation and dryness. Inhalation of vapors or mist may cause respiratory irritation and central nervous system effects such as headache, dizziness, drowsiness, and nausea. Prolonged and/or repeated overexposure may cause liver damage. Refer to Section 11 for additional information.

**Product Description:** Blue to white emulsion with a mild odor.

**US OSHA Classification (29CFR1910.1200):** Flammable, Irritant, Target Organ Effects

**EU Preparation Classification (1999/45/EC):** Not classified as a dangerous preparation.

Refer to Section 16 for Full Text of EU Classes and R Phrases

### Section 3. Composition / Information on Ingredients

Component	CAS Number/ EINECS Number.	Amount	EU Classification (67/548/EEC)
Propylene Glycol (1,2-Propanediol)	57-55-6 / 200-338-0	10-40%	Not Applicable
Acrylic Polymer	Proprietary	10-25%	Not Applicable
Ethanol	64-17-5 / 200-578-6	5-25%	F R11
Isopropanol	67-63-0 / 200-661-7	<2%	F, Xi R11, R36, R67
Formaldehyde	50-00-0 / 200-001-8	0.03%	C, T, Carc. 3 R23/24/25, R34, R40, R43
Water	7732-18-5 / 231-791-2	10-60%	Not Applicable

Refer to Section 16 for Full Text of EU Classes and R Phrases

### Section 4. First Aid Measures

**Eyes:** Remove contact lenses if present. Flush eyes thoroughly with water for at least 15 minutes. If irritation persists, seek medical attention.

**Skin:** Remove contaminated clothing. Wash skin thoroughly with soap and water. Launder contaminated clothing before reuse. If irritation or rash develops, seek medical attention.

**Ingestion:** If swallowed, CALL A PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional advice is not available, DO NOT induce vomiting. Give one or two glasses of water to drink. Never induce vomiting or give diluents to someone who is unconscious, having convulsions, or who cannot swallow.

**Inhalation:** Move person to fresh air. Seek medical attention if irritation or other symptoms persist.

### Section 5. Fire Fighting Measures

**Extinguishing Media:** Water spray, carbon dioxide, alcohol foam or dry chemical. Use water spray to cool fire exposed containers.

**Unusual Fire and Explosion Hazards:** This product is classified as flammable based on the flashpoint, however, in testing it did not sustain combustion at either 60.9°C or 75.9°C. In use, flammable vapors could collect in poorly ventilated areas and present a fire hazard.

**Special Fire Fighting Procedures:** Wear positive pressure self-contained breathing apparatus and full protective clothing.

**Hazardous Combustion Products:** Exposure of adhesive to fire and heat can create toxic fumes and vapors including carbon dioxide, carbon monoxide, nitrogen oxides, formaldehyde and other aldehydes, acrylic monomers and hydrocarbon residues.

### Section 6. Accidental Release Measures

Eliminate all sources of ignition and ventilate area. Evacuate unprotected individuals from the spill area. Wear appropriate protective clothing and equipment (See Section 8 for specific recommendations). Contain and collect spill with inert materials such as commercial absorbent, sand or earth. Place into sealed drums for proper disposal. CAUTION: Spilled material may be slippery. Avoid contamination of water supplies and environmental releases. Report spills as required to authorities.

Refer to Section 13 for disposal information.

### Section 7. Handling and Storage

**Handling:** Avoid breathing vapors, mists and aerosols. Use only with adequate ventilation. Avoid contact with the eyes, skin and clothing. Wear appropriate protective equipment and clothing when handling this material. Wash thoroughly after handling. Do not eat, drink or smoke in the work area. Keep containers closed when not in use. Keep product away from excessive heat and open flames.

Do not cut, drill, grind or weld on or near containers, even empty containers. Empty containers retain product residues that can be hazardous. Follow all MSDS precautions when handling empty containers.

**Storage:** Store in a dry, well-ventilated area away from heat and direct sunlight. Store away from oxidizers and other incompatible materials. Do not use aluminum equipment for transfer or storage. Do not freeze. Store between 34°F and 120°F.

### Section 8. Exposure Controls / Personal Protection

**Exposure Limits:**

Component	Exposure Limit	Source
Propylene Glycol	10 mg/m <sup>3</sup> TWA	AIHA WEEL
Acrylic Polymer	None Established	Not Applicable
Ethanol	1000 ppm TWA 500 ppm TWA	ACGIH/OSHA, UK OEL DFG MAK
Isopropanol	200 ppm TWA, 400 ppm STEL 400 ppm TWA 200 ppm TWA 400 ppm TWA, 500 ppm STEL	ACGIH OSHA DFG MAK UK OEL
Formaldehyde	0.75 ppm TWA; 2 ppm STEL 2 ppm TWA/STEL 0.3 ppm Ceiling	OSHA UK OEL ACGIH, DFG MAK

**Engineering Controls:** Use with adequate local exhaust ventilation to maintain exposures below the occupational exposure limits. Use explosion proof equipment where required.

**Respiratory Protection:** If the exposure limits are exceeded a NIOSH approved respirator appropriate for the form and concentration of the contaminants should be used. A full-facepiece air-purifying respirator with formaldehyde cartridges can be used for concentrations up to 7.5 ppm (10 x PEL). Supplied air respirators may be required for higher exposures. Refer to OSHA 1910.1048 (the Formaldehyde Standard) for additional information and requirements for a cartridge change schedule. An air-purifying respirator with organic vapor cartridges can be used if the exposure limit for ethanol is exceeded. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where air-purifying respirators may not provide adequate protection. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.

**Eye Protection:** Safety glasses or goggles recommended.

**Skin Protection:** Impervious gloves such as nitrile, neoprene or butyl rubber recommended if needed to avoid prolonged contact. Refer to your safety equipment supplier for assistance in selection impervious protective clothing. Wear protective clothing as required to avoid prolonged skin contact when handling.

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### Section 9. Physical and Chemical Properties

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**Appearance and Odor:** Blue to white emulsion with a mild odor.

<b>Solubility in Water:</b>	Complete	<b>Boiling Point:</b>	Not Available
<b>pH:</b>	3.37	<b>Melting Point:</b>	Not Available
<b>Specific Gravity:</b>	1.0224 @ 25C	<b>Vapor Density:</b>	Greater than 1
<b>Evaporation Rate:</b>	Not Available	<b>Vapor Pressure:</b>	59.3 mm Hg @ 20C (ethanol)
<b>Partition Coefficient:</b>	Not Available	<b>Autoignition Temperature:</b>	Not Available
<b>Flash Point:</b>	107.1 – 109.8°F (41.7-43.2°C) CC	<b>Explosive Limits: LEL:</b>	2.0% <b>UEL:</b> 19%

**Sustained Combustibility:** This product did not sustain combustion when tested in accordance with the United Nations/Department of Transportation criteria at either 60.9°C or 75.9°C.

**VOC Content:** 10.04% (102.7 g/L) calculated (refer to Section 15 for further information)

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### Section 10. Stability and Reactivity

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**Stability:** Stable.

**Incompatibility:** Avoid excessive heat and open flames, strong oxidizers, reducing agents, aluminum, acids and bases.

**Hazardous Decomposition Products:** Products of combustion include carbon dioxide, carbon monoxide, oxides of nitrogen, formaldehyde and other aldehydes, acrylic monomers and hydrocarbon residues.

**Hazardous Polymerization:** Will not occur.

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### Section 11. Toxicological Information

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#### Health Hazards

**Inhalation:** Inhalation of vapors may cause mucous membrane and respiratory irritation and central nervous system depression with symptoms of headache, dizziness, drowsiness, nausea and vomiting.

**Skin Contact:** Repeated or prolonged contact may cause irritation, drying, defatting of the skin and dermatitis.

**Eye Contact:** May cause irritation. Eye injury is possible.

**Ingestion:** Ingestion may cause mucous membrane and gastrointestinal irritation and nervous system depression with symptoms of headache, dizziness, nausea and vomiting.

**Chronic:** Prolonged occupational overexposure may cause liver damage.

**Carcinogenicity:** None of the components present at 0.1% or greater is listed as a potential carcinogen by IARC, NTP or OSHA. This product contains a small amount (0.02%) of formaldehyde which is listed by IARC as a group 1 carcinogen, by NTP as reasonably anticipated to be a human carcinogen, by OSHA as a carcinogen and in the EU as a category 3 carcinogen.

**Mutagenicity:** Ethanol and formaldehyde have tested positive for mutagenicity in some test systems.

**Reproductive Toxicity:** Repeated ingestion of ethanol by pregnant mothers has been shown to adversely affect the central nervous system of the fetus, resulting in fetal alcohol syndrome. These effects include mental and physical retardation, disturbances of learning, motor and language deficiencies, behavioral disorders and small head size.

**Acute Toxicity Values:**

Propylene Glycol: LD50 oral rat 20-33.7 g/kg, LD50 skin rabbit 20.8 g/kg

Acrylic Polymer: LD50 oral rat >5 g/kg, LD50 skin rabbit >5 g/kg, LC50 inhalation rat >12.78 mg/L/1 hr.

Ethanol: LD50 oral rat 7.060 g/kg, LD50 skin rabbit 20 g/kg, LC50 inhalation rat 20000 ppm/10hr

Isopropanol: LD50 oral rat 4.710 g/kg, LD50 skin rabbit 12,800 mg/kg, LC50 inhalation rat 72.6 mg/L/4hr

Formaldehyde: LD50 oral rat 0.100 g/kg, LC50 inhalation rat 203 mg/m<sup>3</sup>, LD50 skin rabbit 270 uL/kg

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### Section 12. Ecological Information

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No data is available for the product. The following are acute aquatic toxicity values for the components:

Ethanol: The LC50/96-hour values for fish are over 100 mg/l.

Isopropanol: LC50 *Lepomis macrochirus* (Bluegill) >1400 mg/L/24-96 hr

The solvents in this product are readily biodegradable. The acrylic polymer is not readily biodegradable but will readily absorb onto water treatment sludge and would be eliminated from effluent.

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### Section 13. Disposal Considerations

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Dispose in accordance with all local, state and federal regulations. Local regulations may be more stringent than regional and national requirements. It is the responsibility of the waste generator to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations

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### Section 14. Transport Information

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**Transportation Classification:** Not Regulated for Transportation under USDOT, EUADR, IATA, Canadian TDG and IMDG.

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### Section 15. Regulatory Information

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**United States Regulations:**

**OSHA Status:** Hazardous – a MSDS is required for this product.

**EPA SARA Regulations:**

SARA 311/312 Hazard Categories:

Y – Fire Hazard

N – Sudden Release of Pressure

N – Reactivity

Y – Acute Health

Y – Chronic Health

SARA 313: This contains the following chemicals above de minimus concentrations subject to the notification or reporting requirements of SARA 313: None

**CERCLA Section 103:** The reportable quantity (RQ) for formaldehyde is 100 lbs.

**RCRA Status:** This product, as sold, is not regulated under RCRA as a hazardous waste (aqueous alcohol solution exemption).



**TSCA Status:** All of the components of this product are listed on the EPA TSCA inventory.

**Volatile Organic Carbon Content:** 10.04% (102.7 g/L) The VOC (volatile organic carbon) content has been calculated using the formula that appears in the US EPA and California regulations. This formula excludes all exempt materials (low vapor pressure VOCs) and water).

**California Proposition 65:** This product may contain the following chemicals known to the State of California to cause cancer: formaldehyde, acrylamide, ethyl acrylate and acetaldehyde.

**International Regulations:**

**Canadian WHMIS Classification:**

 	Class B-3 (Combustible Liquid) Class D - Division 2 - Subdivision B (Toxic material causing other chronic effects)
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This MSDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

**Canadian Environmental Protection Act:** All of the ingredients are listed on the Canadian Domestic Substances List.

**EINECS Status:** All of the components of this product are listed on the European EINECS or ELINCS inventory

**EC Labeling:** No labeling required

**Australia:** All of the ingredients of this product are listed on the Australian Inventory of Chemical Substances.

**Japan MITI:** All of the components are existing chemical substances as defined in the Chemical Substance Control Law.

**Korean ECL:** All of the components of this product are listed on the Korean Inventory.

**Philippines:** All of the components of this product are listed on the PICCS inventory.

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**Section 16. Other Information**

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<b>NFPA RATING (NFPA 704)</b>	FIRE: 1	HEALTH: 1	INSTABILITY: 0
<b>HMIS RATING</b>	FIRE: 1	HEALTH: 2	PHYSICAL HAZARD: 0
* Chronic health hazard			

**EU Classes and Risk Phrases for Reference (See Sections 2 and 3):**

C Corrosive  
 Carc 3 Carcinogen Category 3  
 F Highly Flammable  
 T Toxic  
 Xi Irritant



R10 Flammable  
R11 Highly Flammable  
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.  
R34 Causes burns  
R36 Irritating to eyes.  
R40 Limited evidence of carcinogenic effect  
R43 May cause sensitization by skin contact.  
R67 Vapours may cause drowsiness and dizziness.

**Effective Date:** 5/30/13

**Supersedes Date:** 10/08/12

Revision Summary: Changed Composition; Company Name Change

**MSDS Number:** API-CRP-002

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